# Question Bank

**Annexure-B**

**SYLLABUS FOR THE SELECTION TO THE POST OF CHIEF LOCO INSPECTOR (ELECTRIC TRACTION) IN LEVEL-7 OF PAY MATRIX-2016 (GRADE PAY Rs.4600/-)**

1) Knowledge of General and Subsidiary rules covering his work.
2) Schedule and duties of Loco/Fuel Inspectors/Power Controller/Instructors etc.
3) Knowledge of rest rules pertaining to running staff.
4) (a) Knowledge of preventive maintenance schedule of Locomotives/Particular of Kms at which these schedules are carried out and major items to be attended in the schedules.
   (b) Knowledge of pump working and hydraulic data.
5) (a) Knowledge of road/running time trails.
   (b) Knowledge and preparation of engine/crew links, diagrams, knowledge of power requirement.
6) Knowledge of OHE, traction, substation and switching stations.
7) Knowledge of yard stick for all running staff and shed staff.
8) Knowledge of control organization and setup.
9) Procedure to be followed at the site of accident in case he happens to be the first official to be arrived at spot.
10) Knowledge in dealing with disabled engine in enroutes.
11) Basic knowledge of engine statistics.
12) Knowledge of train working, section capacity, normal and minimum running time.
13) Knowledge of load and trails of locomotives.
14) (a) Steps to reduce the infective percentages of locos.
    (b) Efficient utilization of locomotives.
15) Basic knowledge of fire fighting.
16) Knowledge of the following:
    (a) Discipline and Appeal rules – Conducting enquires etc.
    (b) Payment of wages act.
    (c) Workmen Compensation Act.
    (d) Hours of employment regulation rules.
    (e) Leave and Pass rules.
17) Knowledge of electrical and safety rules and rendering First Aid to electrocuted persons.
18) Knowledge about working of vacuum and air brake trains and their important components.
19) Knowledge of official language policy.
20) Knowledge in Crew Management System and its applications.
21) Knowledge in 3-phase AC locomotives and conventional locomotives.
22) Knowledge in Contract Labor (Regulations & Abolitions) Act, 1970 and rules 1971
23) Knowledge in various out sourcing contracts & its implementations in BZA division pertain to TRSO.
24) Knowledge in Accident manual, 2012 including its amendments.
25) Knowledge in General Rules for Indian Railways with SRs & Special instructions of SCR, 2008 and its amendments.
26) Knowledge in station working rules of major stations of BZA division.
27) Knowledge in Railway Services (Conduct) Rules, 1966.
28) Knowledge in Working Time Table No.**75** of BZA division.
29) Knowledge in various welfare measures to running staff.
30) Knowledge in manual of AC traction maintenance and operation, Vol.III.
31) Knowledge of conventional and three phase locomotive and circuits.
32) Troubleshooting knowledge of conventional, three phase loco.

**TRACTION ROLLING STOCK - OPERATIONS**

## Technical Objective Bit bank

1 In 3Ø loco, to isolate panto No. 2 keep panto selector switch in …… position and close…… coc. ( C )

A Auto , PAN-1 & 2 B II , PAN-1

**C I , PAN-2** D I or II , PAN-1 or 2

2 In 3Ø dead loco, ……. coc should be open for charging BP pressure into auxiliary reservoir. ( B )

A 70 **B 47**

C 74 D 136

3 While 3Ø loco working as banker, put on ……. switch and close 70 cut out cock. ( B )

A ZTEL **B ZBAN**

C BLHO D None of the above

4 For resetting VCD in WAG 9 or WAP 7 loco, wait for …….seconds. ( D )

A 120 B 100

C 240 **D 160**

5 In 3Ø loco, SS-17 belongs to …… sub system. ( C )

A Fire detection B Memotel

**C Processor FLG-1** D Processor FLG-2

6 To perform shunting with 3Ø loco, keep ……. switch in ……. position. ( C )

A 154 ; 0 B 154 ; 1

**C 160 ; 0** D 160 ; 1

7 While working with WAP-7 or WAG-9 with light load, if Harmonic filter is isolated, work with normal speed after isolating …… ( D )

A Auxiliary converter-1 B Traction converter-1 & 2

C Auxiliary converter-2 **D Traction converter-1**

8 In 3Ø loco, Battery charger is getting supply from …… ( C )

A Auxiliary converter No. 1 B Auxiliary converter No. 2

**C Auxiliary converter No. 3** D Traction converter No. 1

9 While energizing 3Ø loco, if UBA meter is showing "0" and corridor lights also not glowing check, MCBs No. …….. ( C )

A 100,110 B 110,112

**C 112, 112.1** D 100,112.1

10 In 3Ø loco, for charging of BP pressure …… coc to be kept open. ( B )

A A-8 **B 70**

C 74 D 47

11 In 3Ø loco, if battery voltage drops below ……. volts, loco will shut down. ( A )

**A 82** B 87

C 90 D 92

12 In 3Ø loco, Battery charger output MCB No. is ……. and its location is at…… ( B )

A 110 ; SB1 **B 110 ; SB2**

C 100 ; HB1 D 100 ; HB2

13 In 3Ø loco, VCD is required to be acknowledged from …….. kmph of speed. ( C )

A 5 B 1

**C 1.5** D 15

14 During loco brake testing of WAG-9 or WAP-7, loco should not to move up to …….. KN. ( B )

A 100 **B 150**

C 300 D 125

15 In 3Ø loco, continuous pressing of PSA for more than 60 seconds is called as ……..mode. ( B )

A VCD isolation **B Dead man**

C VCD acknowledgement D None of the above

16 In 3Ø loco, Constant speed control (CSC) can be activated above ……. kmph of speed. ( A )

**A 5** B 1

C 1.5 D 15

17 In 3Ø loco, Auxiliary converter No.2 feeds ……motors ( D )

A Traction motor blower-1 & 2 B Transformer oil pump-1 & 2

C SR Oil pump-1 & 2 **D all of the above**

18 While clearing 3Ø loco (provided with Knorr brake) as dead, mode switch position in both cabs is …… ( D )

A HLPR B Lead

C Test **D Trail**

19 In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if BP pressure drops (with or without A9) more than ……. $Kg/cm^2$ . ( C )

A 1 B 1.5

**C 0.25** D 0.6

20 In 3Ø loco, SS-10 belongs to …… sub system ( B )

A Battery **B Brake system**

C Auxiliaries HB1 D Auxiliary converter No. 3

21 In 3Ø loco, location of TM Blower-1 is …… ( B )

A Machine room No.1( near cab-2) **B Machine room No.2( near cab-1)**

C Under machine room No.1 D Under machine room No.2

22 In 3Ø loco, if vigilance penalty brakes are applied BP pressure drops to …… $kg/cm^2$. (Gauge reading) ( B )

A 2 **B 2.5 to 3.0**

C 2.5 to 3.5 D 0

23 When ZTEL is switched ON Tractive Effort( TE) is limited to ……. KN in WAG-9. ( B )

A 0.8 to 1.5 **B 300**

C 150 D 458

24 Maximum permissible speed of WAG-9 loco is ……. Kmph. ( A )

**A 100** B 130

C 140 D 160

25 In 3Ø loco, on moving BL key from 'D' to 'OFF' position, …….. brakes will apply automatically. ( C )

A Direct brakes B Auto brakes

**C Parking brakes** D All brakes

26 In 3Ø loco, parking brakes are applied and released through ……. switch in Panel 'A'. ( C )

A Solenoid valve B BPCS

**C BPPB** D None of the above

27 In 3Ø loco, SS-14 belongs to …… sub system. ( B )

A Cab 1 **B Cab 2**

C Fire detection D Auxiliaries in HB 2

28 In 3Ø loco, If ZBAN is switched ON in working cab, …….. Happens. ( A )

**A BP pressure drops to '0'** B FP pressure drops to '0'

C BC pressure raises to 3.5 kg/cm$^2$ D None of the above

29 Hotel load facility is available in …….. loco(s). ( C )

A WAP-5 B WAP-7

**C All WAP-5 and modified WAP-7** D All three phase locos

30 3Ø loco is having …… number of auxiliary Converter (s). ( C )

A 1 B 2

**C 3** D 4

31 In 3Ø loco, SS-18 belongs to …… sub system. ( D )

A Fire detection B Memotel

C Processor FLG-1 **D Processor FLG-2**

32 In 3Ø loco, to close the DJ, ensure …… node information on screen (in driving mode). ( B )

A FLG-504 **B FLG-550**

C FLG-570 D FLG-590

33 Total oil /coolant points in WAG 9 or WAP 7 locos are …… ( C )

A 7 B 6

**C 13** D 8

34 To apply parking brakes in 3Ø dead loco, press. …… side plunger of solenoid valve. ( A )

**A Left** B Right

C Any plunger D None of the above

35 In 3Ø loco is having …… no. of three phase auxiliary motors. ( C )

A 16 B 22

**C 12** D 13

36 In 3Ø loco, UBA meter needle deviates when BL key is in …… mode(s) of BL key. ( C )

A Driving B Cooling

**C Driving or Cooling** D None of the above

37 If speed of the train is increased more than …… than loco MPS, emergency brake will apply in 3Ø loco. ( C )

A 0.5% B 5%

**C 10%** D 50%

38 In 3Ø loco, battery charger input MCB No. is …… and located in …… ( B )

A 100 , HB-1/BUR2 **B 100 , HB-2/BUR2**

C 112.1 ,SB-2/SR2 D 112 , SB-1/SR1

39 In 3Ø loco, if speed is more than …… % than loco MPS, only audio visual indications will appear. ( B )

A 0.50 **B 5**
C 15 D 50

40 Parking brake is provided to ……wheels in WAG-9 loco. ( B )

A 1, 4, 5 & 8 **B 2, 6, 7 & 11**
C 2 & 11 D 1, 6, 7 & 12

41 Over current relay in 3Ø loco is …… ( C )

A OCR-86 B MVR-86
**C OCR-78** D None of the above

42 In ……. gradient area and terminal goods yards Constant speed control (CSC) of 3Ø loco should not be used. ( C )

A Up B Down
**C Undulating** D Steep down

43 In WAG-7 or WAP-4, ……. output is given to all TMs fields during RB. ( B )

A RSI-1 **B RSI-2**
C Both RSI-1 & RSI-2 D None of the above

44 While working 3Ø loco as banker, close …… cocs in pneumatic panel. ( A )

**A 70& 136** B 70&74
C 74&136 D All the above

45 In 3Ø loco, to reset the Fire detection unit (FDU) press the ……button. ( B )

A BPFA **B Press Reset button on FDU**
C ESPB D BPVR

46 In 3Ø loco,……auxiliary motors works only in cooling mode. ( C )

A All three Ø and single Ø motors B All single Ø motors and MCP 1 & 2
**C Only single Ø motors & MCPA** D None of the above

47 In 3Ø loco, if 'Catenary voltage out of limit' appears on screen, change ……. fuse after lowering panto and try. ( D )

A FL B CCBA
C No need to Change **D Potential Transformer**

48 In 3Ø loco, SS-09 belongs to …… sub system. ( A )

**A Battery sytem** B Brake system
C Auxiliaries HB-1 D Auxiliary converter No.3

49 In 3Ø knorr brake loco, rear cab mode switch position is----- ( C )

A HLPR B Lead
**C Trail** D Test

50 To reset VCD in WAP-5 loco, wait for ……seconds. ( D )

A 0 B 160
C 240 **D 120**

51 In 3Ø loco cab changing is to be done with in …… minutes otherwise CE will switch OFF. ( A )

**A 10** B 0
C 15 D 20

52 In 3Ø locos, in cooling mode, for panto and DJ …….. motor creates pressure. ( B )

A MCPs **B MCPA**
C Both A and B D None of the above

53 In 3 Ø loco potential transformer is connected to ……roof bar. ( A )

**A Middle** B Panto-1
C Panto-2 D None of the above

54 The position of mode switch in leading cab of 3Ø loco provided with Knorr brake is …… ( B )

A HLPR **B Lead**
C Trail D Test

55 In 3Ø loco, normal position of 152 switch is …… ( A )

**A '0'** B '1'
C 'NORM' D None of the above

56 In 3Ø loco, SS-16 belongs to …… sub system. ( C )

A Cab-2 B Fire detection
**C Memotel (Speedometer)** D Processor FLG-1

57 In 3Ø loco, SS-04 belongs to …… sub system. ( D )

A Traction bogie-1 B Traction bogie-2
C Main power **D Harmonic filter**

58 In 3Ø loco, SS-08 belongs to ……sub system. ( C )

A Auxiliary converter No.1 B Auxiliary converter No.2
**C Auxiliary converter No.3** D Battery

59 In 3Ø loco provided with Knorr brake, Auto brake valve (A9) handle can be locked or unlocked in …..…… position . ( C )

A Emergency B Neutral
**C Full service** D Minimum reduction

60 3Ø loco is having …… number of roof bars. ( B )

A 2 **B 3**
C 4 D 3+3

61 3Ø loco having …… number of additional cocs (total coc on both sides). ( B )

A 4 **B 4 + 4**
C 16 D 2

62 In 3Ø loco, SS-05 belongs to …… sub system. ( B )

A Harmonic filter **B Hotel load**
C Brake system D Fire detection

63 WAG-9 loco is provided with ……. No. of direct brake cylinders and …….. No. of parking brake cylinders. ( A )

**A 12 & 4** B 12 & 12
C 4 & 12 D 12 & 6

64 3Ø loco is fitted with …….. type of traction motors. ( A )

**A 3 Ø AC Asynchronous squirrel cage induction motor** B TAO 659
C Hitachi D Hitachi or TAO 659

65 In 3Ø loco, position of control Electronics (CE) during cab changing is ..... ( C )

A OFF B ON

**C Self hold mode** D None of the above

66 In 3Ø loco, location of BPFL switch is …… ( D )

A FLCU B In both cabs Panel A

C In both cabs Panel B **D In both cabs Panel C**

67 To move 3 Ø loco as live or dead ensure ……& …… brakes are released. ( C )

A Parking brakes, proportional B Direct brakes, proportional

**C Parking , Direct brakes** D None of the above

68 In 3Ø loco, if throttle (ATDC) is failed, keep …… switch in …… position. ( B )

A 154 , 0 **B 152 , 1**

C 152 , 0 D 160 , 1

69 In 3Ø loco, when parking brakes are applied, parking brake gauge shows ……. ( A )

**A 0 Kg/cm2** B 4 Kg/cm2

C 3.5 Kg/cm2 D 6 Kg/cm2

70 In 3Ø loco, SS-15 belongs to ……sub system. ( B )

A Cab-2 **B Fire detecti**on

C Memotel (Speedometer) D Processor FLG-1

71 In 3Ø loco, to isolate panto No.1 keep panto selector switch in …..... Position. ( C )

A Auto B I

**C II** D I & II

72 Location of Emergency stop push button switch in 3Ø loco is ..... ( A )

A **In both cabs Panel A** B In both cabs Panel B

C In both cabs Panel C D In both cabs Panel D

73 WAG-9 or WAP-7 locos are having …….. number of dampers (in both primary and secondary suspension). ( B )

A 16 **B 20**

C 40 D 10

74 Location of MCP-2 in 3Ø loco is …… ( B )

A Loco left side below Machine room No.1 **B Loco right side below Machine room No.2**

C Machine room No.1 D Machine room No.2

75 In 3Ø loco, glowing of BPFA and flickering of LSFI indicates ……fault. ( B )

A Isolation of sub system **B Priority-1**

C Priority-2 D Both Priority-1 & 2 faults at a time

76 In 3Ø locos, VCD is required to acknowledge once in every …… seconds. ( B )

A 8 **B 60**

C 68 D 160 in WAG-9 or WAP-7 & 120 in WAP-5

77 In 3Ø loco, on run glowing of BPFA alone indicates …… fault. ( C )

A Priority-1 B One of the sub system is isolated

**C Priority-2** D Priority-1 fault or Priority-2 fault

78 Location of Harmonic filter resistances in 3Ø loco is …… ( A )

**A Loco roof** B Inside FB

C Machine room No-2 D By the side of pneumatic panel

79 In 3Ø loco, to bring isolated sub system into service (system isolated sub system), procedure is …… ( A )

**A Switch OFF and switch ON CE** B Reset concerned MCB

C Close concerned COC D Operate concerned rotating switch

80 In 3Ø loco, Status code '00' means---------- (D )

A Major fault in loco B No sub system isolated

C Minor fault in loco D **No fault and No sub system isolated**

81 In 3Ø loco, Auxiliary converter No.3 feeds …… Motors. ( D )

A TMB 1&2 B MCP-1 & 2

C OCB 1&2 **D TFP PUMP 1&2**

82 In 3Ø loco, In case of emergency, ALP can stop the train by operating …… . ( D )

A Emergency stop switch B Emergency brake valve

C BPVG D **Emergency stop switch or Emergency brake valve**

83 In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if throttle is disturbed above ……. % in TE side or BE side. ( C )

A 33% B 66%

**C 3%** D No such limit, on moving Throttle

84 WAG-9 loco is having ……type of bogie. ( C )

A Bo-Bo flexi coil B Co-Co Tri mount

**C Co-Co flexi coil** D Co-Co tetra mount high adhesion

85 3Ø loco having … number of single phase 415V auxiliary motors. ( B )

A 12 **B 4**

C 8 D 13

86 In 3Ø loco, Machine room blowers & their scavenging blowers works in…… Mode(s). ( D )

A Driving mode only B Cooling mode only

C Off D **Driving mode & Cooling mode**

87 In WAG-9 or WAP-7, location of air dryer is …… ( C )

A Behind MCP-1 in left side B Between two trucks

C **Behind cattle guard-1 loco pilot side** D Behind cattle guard-1 in ALP side

88 In 3Ø loco,SS-06 belongs to …… sub system. ( A )

**A Auxiliary converter No. 1** B Auxiliary converter No. 2

C Auxiliary converter No. 3 D Traction converter No. 1

89 In 3Ø loco, Continuous glowing of LSFI indicates---------- ( B )

A Priority-1 fault
**B At least one sub system is isolated**
C Priority-2 fault
D Priority-1 fault or Priority-2 fault

90 In 3Ø loco, location of MCP-1 is …… ( D )

A In machine room No.1
B In machine room No.2
C Below machine room No.2
D **Below machine room No.1**

91 In 3Ø loco, 3Ø scavenging blower collects dust from air filters of …… & …… . ( D )

A Oil cooling blowers-1&2
B Bogie blowers-1&2
C Machine room blowers-1&2
**D Oil cooling blower & Bogie blower**

92 In 3Ø loco, to operate reverser ensure …… node information on screen and MR pressure should be more than 6.4 kg/cm2. ( C )

A FLG-504
B FLG-550
**C FLG-570**
D FLG-590

93 In 3Ø loco, when harmonic filter is isolated, speed of the train is restricted to ……. ( B )

A 60 Kmph.
**B 40 Kmph**.
C 25 Kmph.
D No such restriction

94 In 3Ø loco, location of Fire detection unit (FDU) is …… ( B )

A SB-1
**B SB-2**
C HB-2
DPanel

95 In proportional working, maximum brake cylinder pressure in WAG-9 loco is ……..kg/$cm^2$ ( B )

A 1.8 kg/$cm^2$
**B 2.5 kg/$cm^2$**
C 3.5 kg/$cm^2$
D 5 kg/$cm^2$

96 3Ø loco is having …….. No. of 3 phase auxiliary motors in loco under frame. ( B )

A 2
**B 4**
C 12
D 8

97 If RS pressure is below 5.2 Kg/cm2 and MCPs are not working, MCPA starts automatically provided BL key is in …….. position. ( C )

A "C"
B "D"
**C "C" or " D"**
D None of the above

98 In 3Ø loco before operating throttle, ensure …… node information on screen. ( D )

A FLG-504
B FLG-550
C FLG-570
**D FLG-590**

99 In 3Ø loco, SS-03 belongs to ……sub system. ( B )

A Traction bogie-1
**B Traction bogie-2**
C Main power
D Harmonic filter

100 In 3Ø loco, Oil cooling blower cools …&……Oils/ water coolant. ( C )

A SR-1 , SR-2
B TFP-1 , TFP-2
**C TFP & SR**
D Traction motors

101 In 3Ø loco, to isolate truck No.1 (traction converter-1), keep ..... switch in ..... position. ( A )

**A 154 , I position** B 154 , II position
C 154 , Auto position D 154 , I & II position

102 In 3Ø loco, if battery voltage drops to ..... volts for 30 seconds, P-2 message appears. ( A )

**A 92 Volts** B 82 Volts
C 90 Volts D 85 Volts

103 In 3Ø loco, for application of parking brakes speed should be below..... ( A )

**A 5 Kmph** B 15 Kmph
C 1.5 Kmph D Zero Kmph

104 In WAG-5, ..... out put is given to all TMs fields during RB. ( A )

**A RSI-1** B RSI-2
C Both RSI-1 & RSI-2 D None of the above

105 Location of line contactors L-1, L-2 & L-3 in WAG-7 (above 27200) & in WAP4 locos is at ..... ( A )

**A HT-1 BA-1 panel** B HT-3 BA-2 panel
C HT-3 BA-3 panel D HT-3 BA-4 panel

106 Location of line contactors L-4, L-5 & L-6 in WAG-7 (above 27200) & in WAP4 locos is at ..... ( C )

A HT-1 BA-1 panel B HT-3 BA-2 panel
**C HT-3 BA-3 panel** D HT-3 BA-4 panel

107 Location of C-118 in WAM-4 loco is at..... ( C )

A Motor chest no.2 towards carridor-1 B Motor chest no.2 towards carridor-2
**C HT-3 BA-3 panel** D HT-3 BA-2 Panel

108 Location of R-1 coc in WAG-5 loco is at ..... ( C )

A Cab-1 center locker B Near control reservoir
**C Above wheel no.4** D Cab-1 left side locker

109 Location of R-1 coc in WAG-7 loco is ..... ( B )

A Cab-1 center locker **B Near control reservoir**
C Above wheel no.4 D Cab-1 left side locker

110 Location of C2A relay valve in WAG-5,WAM4 & WAG7 (up to 27199) is at ..... ( A )

**A Behind BA box no.3** B Behind BA box no.2
C Behind BA box no.1 D Behind BA box no.4

111 Location of C2A relay valve in WAG-7 loco 27200 onwards & WAP-4 crew friendly cab locos is at ..... ( B )

A Behind BA box no.3 **B Pneumatic panel**
C Behind BA box no.1 D Behind BA box no.4

112 Location of C2B relay valve in WAG-5,WAM4 & WAG7 (up to 27199) is at ..... ( B )

A In between MR-1 & MR-2 **B In between MR-3 & MR-4**
C In between MR-2 & MR-3 D Pneumatic panel

113 Location of C2B relay valve in WAG-7 (27200 onwards) & WAP4 crew friendly cab locos is at ..... ( D )

A In between MR-1 & MR-2 B In between MR-3 & MR-4

C In between MR-2 & MR-3 **D Pneumatic panel**

114 Location of MVSL-1 in WAG-5, WAM4 & WAG7 (up to 27199) is at ..... ( A )

**A HT-2 compartment towards corridor-2** B HT-2 compartment towards corridor-1

C HT-1 compartment towards corridor-2 D HT-1 compartment towards corridor-1

115 Location of MVSL-2 in WAG-5, WAM4 & WAG7 (up to 27199) is at ..... ( B )

A HT-2 compartment towards corridor-2 **B HT-2 compartment towards corridor-1**

C HT-1 compartment towards corridor-2 D HT-1 compartment towards corridor-1

116 Location of EP-3 coc in WAG-7(27200 onwards) & WAP-4 locos is at …… ( A )

**A Near BA-4 panel** B Near BA-3 panel

C Near BA-2 panel D Near BA-1 panel

117 Location of MVSL-1 in WAG-7 loco 27200 onwards is at ……. ( A )

**A HT-1 compartment** B HT-2 compartment

C HT-3 compartment D None of the above

118 Location of MVSL-2 in WAG-7 loco 27200 onwards is at ……. ( B )

A HT-1 compartment **B HT-2 compartment**

C HT-3 compartment D None of the above

119 In conventional locos, .....reservoir pressure is used for horns ( D )

A MR1 B MR2

C MR3 **D MR4**

120 In modified locos, when additional BP cut out cock is closed in leading side, …… cab BP gauge shows '0' reading. ( A )

**A Trailing** B Leading

C In both cabs D None of the above

121 In conventional locos, .....reservoir pressure is used for creation of loco BC pressure. ( D )

A MR1 B MR2

C MR3 **D MR4**

122 In each cab A9 feed valve is having .....No. of cut out cocks ( B )

A 1 **B 2**

C 3 D 4

123 QD-2 is connected between.....and..... traction motors. ( C )

A TM4 & TM6 B TM5 & TM6

**C TM4 & TM5** D None of the above

124 In conventional locos, A8 coc Position while working with cab-2 leading is……. ( C )

A Partially open B partially closed

**C Open** D Close

125 Location of line contactors in WAG-5,WAM-4 & WAG-7(up to 27199) locos is at …… ( C )

A HT-1 BA-1 panel B HT-3 BA-2 panel

**C HT-3 BA-3 panel** D HT-3 BA-4 panel

126 Total number of loco brake cylinders in WAP-4 loco is..... ( D )

A 6 B 8

C 4 **D 12**

127 Normal pressure of SMGR is..... Kg /$cm^2$. ( A )

**A 2.5 - 3.5** B 3.0 - 2.0

C 3.5 - 4.5 D 5.0 - 3.0

128 Location of A-8 COC in WAG-7 loco above 27200 is …… ( B )

A In cab-1 below A-9 **B Pneumatic panel**

C In cab-2 below A-9 D None of the above

129 If all line contactors are not closed in WAG 5 loco, ensure.....COC is in open position. ( A )

**A EP 2 COC** B EP 1 COC

C MR 4 COC D VEAD COC

130 Location of A-8 COC in WAP-4 crew friendly locos--------- ( B )

A In cab-1 below A-9 **B Pneumatic panel**

C In cab-2 below A-9 D None of the above

131 Brake pipe pressure should be .....Kg/ $cm^2$ in locomotive and ..... Kg/ $cm^2$ in brake van of train having 58 vehicles. ( C )

A 5.0, 4.8 B 5.0, 4.9

**C 5.0, 4,7** D 5.0, 5.0

132 Minimum FP pressure Should be ..... .. Kg/ $cm^2$ in locomotive and ……. Kg/$cm^2$ in rear SLR of a 24 vehicles coaching. ( A )

**A 6.0, 5.8** B 6.0, 5.9

C 6.0, 5.7 D 6.0, 5.6

133 In WAG 7 loco, If all line contactors are not closed, ensure……cocs are in open position. ( D )

A EP 2& EP3 B EP 1& EP3

C MR 4 & EP3 **D EP 1 and EP 2**

134 In conventional locos, CP Individual safety valve setting is ……kg/ $cm^2$. ( C )

A 8 B 11.5

**C 11** D 9.5

135 When BP drops below 4.4 (in BP gauge) without A9……starts functioning. ( C )

A ACP Indication B AFL

**C Both A & B** D none of the above

136 In conventional locos, if ALP is driving from trailing cab and loco pilot is controlling from leading cab, do not exceed ……. Kmph of speed. ( A )

**A 40** B 15

C 30 D No Speed Restriction

137 In conventional locos RGEB2 is connected on ..... Pipe line. ( B )

A FP pipe **B Brake Pipe**

C Control pipe D All the above

138 QD-1 is connected between.... and ..... traction motors. ( A )

**A TM2 & TM3** B TM1 & TM3

C TM1 & TM2 D None of the above

139 In conventional locos auto Drain Valve will drain out the moisture at ……. Kg/$cm^2$ (when BLCP is closed). ( B )

A 8 **B 9.5**

C 10.5 D 11

140 Location of C-145 in WAG-7(27200 onwards) & in WAP4(with RB) is at …… ( D )

A HT-1 BA-1 panel B HT-3 BA-2 panel

C HT-3 BA-3 panel **D HT-3 BA-4 panel**

141 For lowering or for raising the pantograph in three stages ..... valve is provided. ( B )

A Panto servo motor **B Throttle valve**

C BothA & B D None of the above

142 In conventional locos, if ALP is in leading cab and Loco pilot is controlling from trailing cab, do not exceed .....Kmph of speed. ( B )

A 40 **B 15**

C 30 D No Speed Restriction

143 In conventional locos during RB, if loco brake cylinder pressure is above 1.0 kg/cm$^2$ ,…..relay will de-energise to bring GR to '0'. ( D )

A Q 51 B QVRF

C QE **D Q 50**

144 Location of VEPT-1 in crew friendly locos is …… …… ( D )

A Loco roof B Cab-1 left side locker

C Cab-1 center locker **D Cab-1 back panel**

145 The clearance between brake block and wheel tyre should be ..... mm in release position of loco brakes. ( A )

**A 10** B 5

C 15 D 20

146 The..... reservoir pressure is used for BA2 and BA3 panels in WAG5 loco. ( A )

**A control reservoir** B MR1

C MR2 D MR4

147 In conventional locos duplex check valve is set at ……kg/ cm$^2$. ( B )

A 5 **B 4.9**

C 6.5 D 8

148 In conventional locos,.....reservoir pressure is used for FP pressure creation. ( B )

A MR1 **B MR2**

C MR3 D MR4

149 When BPSW is pressed, …….. valve energizes for quick recreation of BP pressure. ( A )

**A MV4** B R6

C VEF electrical D IP

150 The normal position of air intake COC is ..... ( A )

**A Close** B Open

C Partially Open D Partially Close

151 In conventional locos, SS2 safety valve is set at ..... kg/cm$^2$. ( C )

A 10 B 11

**C 10.5** D 11.

152 Location of HQOP-1 in WAG-7 loco 27200 onwards is ..... ( A )

**A HT-1 BA-1 panel** B HT-3 BA-3 panel

C HT-3 BA-2 panel D Switch panel

153 In conventional locos proportional working pressure with A9 is .....kg/ cm$^2$. ( C )

A 2 B 2.5

**C 1.8** D 3.5

154 Normally .....colour cocs to be kept open and.....colour coc to be kept closed of air dryer. ( B )

A Red , Green **B Green , Red**

C Red, Red D Green , Green

155 In conventional locos, Air Dryer is connected between …….. &…… reservoirs. ( B )

A MR1 , MR2 **B MR2 , MR3**

C MR3 , MR4 D None of the above

156 In conventional locos, for discharging back pressure from CP delivery pipe line, …… valves are provided. ( A )

**A Un loader** B Auto drain

C Both A & B D None of the above

157 Maximum ……kg/ cm2 of pressure will go to brake cylinders of each wagon, when BP drops to '0'. ( D )

A 2 B 2.5

C 1.8 **D 3.8**

158 A-8 cut out cock position is.....in MU leading loco and ..... in MU trailing loco. ( A )

**A Open, Close** B Open, Open

C Close, Close D Close, Open

159 In BMBC system, each coach having ..... no. of brake cylinders. ( C )

A 2 B 3

**C 4** D 5

160 Maximum loco brake cylinder pressure with A9 is .....Kg/$cm^2$ and with SA-9 is ..... Kg/ $cm^2$. ( B )

A 1.8, 2.5 **B 1.8, 3.5**

C 2.0, 2.5 D 1.8, 3.8

161 Location of HQOP-2 in WAG-7 loco 27200 onwards is..... ( C )

A HT-1 BA-1 panel B HT-2 compartment

**C HT-3 BA-2 panel** D Switch panel

162 In MU locos, MU2B position in leading loco is…… and in trailing loco is..... ( C )

A Lead, Lead B Trail, Lead

**C Lead,Trail** D Trail, Trail

163 In conventional locos SS-1 safety valve setting… Kg/$cm^2$. ( D )

A 8.5 B 9

C 10.5 **D 8**

164 In conventional locos, if wipers, sanders are not working and FP pressure is not creating ..... Valve to be tapped. ( A )

**A Duplex check valve** B Double check valve

C Both A&B D None of the above

165 In conventional locos, if DJ trips during RB ..... valve destroys BP pressure automatically. ( A )

**A IP(M)** B C3W

C A9 feed D Auto drain

166 Location of A-8 COC in WAG 5 loco is …… ( A )

**A In cab-1 below A-9** B Pneumatic panel

C In cab-2 below A-9 D None of the above

167 Sensitivity of distributor valve is reduction of……. Kg/$cm^2$ amount of BP pressure with in …….seconds. ( A )

**A 0.6, 6** B 0.3, 6

C 0.6, 3 D 0.3, 60

168 In conventional dead loco, IP (M) COC must be in ..... position. ( A )

**A Close** B open

C Either close or open D None of the above

169 In conventional locos,.....pressure switch is provided on A9 control pipe line (related to AFL). ( A )

**A P1** B P2

C RGCP D RGAF

170 Leakages in formation 'BP' pipe is indicated through…… gauges in both cabs. ( D )

A MR B Loco BC

C FP **D AFI**

171 To by-pass the air dryer ..... colour cut out cock to be closed and ……colour cut out cock to be opened. ( B )

A Red, Green **B Green, Red**

C Red, Red D Green, Green

172 In air brake locos, ALP emergency brake is connected to ..... pipe line. ( A )

**A BP** B MR

C FP D BC

173 In conventional locos, .....pipeline of A9 is not having any coc in both cabs. ( C )

A MR pipe B Control pipe

**C BP pipe** D None of the above

174 When additional BP cut out cock is closed on formation side, …… pressure will not charge in to the formation. ( A )

**A BP** B FP

C MR D All the above

175 Location of CTF-3 in WAG-7 loco 27200 onwards & WAP4 (with RB) is …… ( D )

A HT-1 BA-1 panel B HT-3 BA-2 panel

C HT-3 BA-3 panel **D HT-3 BA-4 panel**

176 During BP pressure leakage in formation, …… lamp glows in signalling panel. ( C )

A LSDJ B LSP

C **LSAF** D LSB

177 In Air flow indicator, …… colour needle is called as reference needle and ..... colour needle is called as indicating needle. ( D )

A White, Red B Red, Green

C Green, Red **D Red, White**

178 Normal position of additional BP cut out cocks on either side of the loco is…… . ( A )

**A Open** B Close

C Either close or open D None of the above

179 In conventional locos, ..... Pressure switch is provided on BP pipe line (related to AFL). ( B )

A P1 **B P2**

C RGCP D RGAF

180 The C145 contactor position is..... when MP is in traction side. ( A )

**A open** B close

C either close or open D neither close nor open

181 In 58 BOXN+BV load, if 6 DVs are defective, the effective brake power is.....%. ( A )

**A (53 / 59) X 100 = 90%** B (59 / 53) X 100 = 111%

C Cannot calculate D None of the above

182 The C145 contactor position is..... when MP is in braking side. ( A )

**A close** B open

C neither close nor open D either close or open

183 Formula for effective brake power percentage is ..... ( A )

**A (Effective No. of cylinders /Total no of cylinders)X100** B (Total no of cylinders/ Effective No. of cylinders)X100

C (Effective No. of cylinders X 100) D (Total no of cylinders / 100)

184 Though MCPA is working and RS pressure is not creating, …….. drain cocks to be checked. ( D )

A EP & PT B CP &CPA

C CDC D **RS,PT & CPA**

185 For grounding conventional loco, place ZPT key in HOM box in…… position and turn it to …… position in clock wise direction. ( A )

**A 5° clock, 7°clock** B 5° clock, 6°clock

C 7° dock, 9° clock D 11° clock, 1°clock

186 When MP is in traction side, the CTF1, CTF2 & CTF3 handles position are ……. ( D )

A CTF1, CTF2 up & CTF3 down B CTF1, CTF2 down & CTF3 up

C CTF1, CTF2, CTF3 down **D CTF1, CTF2 & CTF3 up**

187 In single pipe air brake system, formation wagon / coach auxiliary reservoir is charged with ……. pressure. ( D )

A MR4 B FP

C BC **D BP**

188 In MU both locos pneumatic pressure is maintained equally through.... pipe. ( D )

A BP B FP

C BC equalising **D MR equalising**

189 In twin pipe air brake system, coaches auxiliary reservoir is charged with ……. pressure. ( B )

A MR4 **B FP**

C BC D BP

190 In conventional locos, ..... reservoir pressure is used for creation of BP pressure. ( C )

A MR 1 B MR 2

**C MR 3** D MR 4

191 In double head trailing loco , A8 coc must be in .....position. ( B )

A Open **B Close**

C Either (A) or (B) D None of the above

192 While moving conventional loco as dead, MR4 reservoir is charged with …… pressure when DV is in service (MR Eq. pipe is not connected between locos). ( A )

**A BP** B FP

C MR D None of the above

193 For single loco both side BC equalizing pipes angle coc must be in.....position. ( A )

**A Close** B Open

C Either (A) or (B) D None of the above

194 During CP efficiency test, when BPSW is pressed, BP should not drop below .....kg/$cm^2$ ( write the BP gauge reading). ( B )

A 4 **B 4.4**

C 3.5 D 2.5

195 When MP is in braking side, the CTF1, CTF2 & CTF3 handles position are …….. ( B )

A CTF1, CTF2, CTF3 up **B CTF1, CTF2 & CTF3 down**

C CTF1, CTF2 down & CTF3 up D CTF1, CTF2 up & CTF3 down

196 During BP continuity test, ……kg/ $cm^2$ of BP pressure to be dropped through A9 in the loco. ( D )

A 2.5 B 3.5

C 2 **D 1**

197 During CP efficiency test, when BPSW is not pressed, BP gauge needle should show between …… and …… kg/cm2. ( A )

**A 2.5 & 3.5** B 1.5 & 2.5

C 3.0 & 3.5 D Any one of the above

198 In modified locos, when C145 contactor is closed, ……. lamp glows near Q50 relay. ( C)

A LSB B LSGR

**C LSC-145** D LSOL

199 When L1 or L6 is not closed, then ..... traction failure occurs. ( C )

A TLTE with GR progression B TLTE w/o GR progression

**C PLTE** D 1st notch auto regression with LSP

200 Auto sanding is done by the energisation of ……. Relay. ( C )

A Q44 B Q49

**C Q48** D Q50

201 When ever cattle run over takes place, if BP dropped the immediate duty of crew is to switch ON …… light. ( D )

A Head light B Cab light

C Marker light **D Flasher light**

202 When ever cattle run over takes place, after clearing the block section, the LP has to check …… voltage. ( B )

A OHE voltage **B Battery voltage**

C Charger voltage D None

203 When ever cattle run over takes place, if BP dropped due to front side BP angle cut-off cock is broken , the duty of LP is to maintain BP pressure is by closing ……. ……coc. ( C )

A MR-4 COCK B Rear side addl. BP coc

**C Front side Addl. BP angle coc** D Both side addl.BP cocs

204 Relay Q 46 is called as …….. Relay ( C )

A GR half notch protection relay B Auxiliaries protection relay

C **GR full notch protection relay** D DJ protection relay

205 Relay Q 118 is called as …….. relay. ( B )

A GR half notch protection relay **B Auxiliaries protection relay**

C GR full notch protection relay D DJ protection relay

206 On closing BLDJ, pressing BLRDJ, LSDJ remains glowing means ……. Tripping failure. ( B )

A Operation A beginning **B ICDJ**

C Operation A ending D Mechanical locking of DJ

207 While checking reasons for ICDJ, UBA meter shows more than 90V indicates ……..fuse(s) are in good condition. ( C )

A CCPT & CCBA B CCBA

**C ADDl. CCBA** D CCPT & CCDJ

208 To avoid ICDJ, minimum …….. kg/cm$^2$ of MR/RS pressure is required. ( B )

A 6.6 **B 6.5**

C 6 D 5.5

209 While checking the reasons for ICDJ, the panto raised condition indicates ……& ……..fuses are in good condition. ( C )

A CCDJ & CCPT B Addl CCBA & CCA

**C CCBA & CCPT** D Addl CCBA & CCDJ

210 On closing BLDJ, pressing BLRDJ, LSDJ lamp extinguishes and glows immediately is an indication for ..... tripping failure. ( D )

A Operation A ending B Operation A ending part II

C Operation B Part I **D Operation A beginning**

211 Earth fault in Q 118 relay coil causes …… fuse to melt. ( C )

A CCBA B CCDJ

**C CCPT** D Addl. CCBA

212 In VCB(DI) DJ provided locos, the DJ control circuit is not having ..... branch. ( C )

A Q 118 B MTDJ

**C EFDJ** D Q 45

213 Earth fault in Q 45 relay coil causes ..... fuse to melt. ( B )

A CCBA **B CCDJ**

C CCPT D Addl. CCBA

214 Earth fault in Q 44 relay coil causes …… fuse to melt. ( A )

**A CCPT** B CCDJ

C CCBA D Addl. CCBA

215 Earth fault in MTDJ coil causes ……fuse to melt. ( D )

A CCBA B Addl. CCBA

C CCPT **D CCDJ**

216 Earth fault in EFDJ coil causes ……fuse to melt. ( C )

A CCBA B Addl. CCBA

**C CCDJ** D CCPT

217 Earth fault in C 118 contactor coil causes ……. fuse to melt. ( A )

**A CCDJ** B Addl. CCBA

C CCPT D CCBA

218 Permanent welding of the tips of C 106 contactor causes ..... tripping failure. ( C )

A No tension B 6th notch tripping

**C ICDJ** D Operation 'O'

219 Melting of CCDJ fuse causes …… tripping failure. ( D )

A Operation 'A' ending B Operation 'O'

C Operation 'A' beginning **D ICDJ**

220 For closing of DJ ..... push button switch can be used. ( C )

A BP1DJ B BPP

**C BP2DJ** D BPR

221 Improper contact of ……. push button switch I/L causes ICDJ trouble. ( A )

**A BP1DJ** B BPP

C BP2DJ D BPR

222 In VCB(SI/Horizontal) DJ provided Locos, the DJ control circuit is having ..... no. of branches. ( C )

A 3 B 5

**C 6** D 4

223 In emergency DJ can be tripped by ALP by pressing ..... push button switch in cab-2. ( A )

**A BP1DJ** B BPP

C BP2DJ D BPR

224 Defective QVRH relay causes …… tripping failure. ( D )

A Operation I B Operation B Part I

C Operation II **D Operation 'O'**

225 Defective QPH relay causes …… tripping failure. ( B )

A Operation I B **Operation B Part 1**

C Operation II D Operation 'O'

226 LSCHBA glowing on run, but DJ is not tripped indicates …..... or ……. equipment is defective. ( A )

**A QV61 or CHBA** B ARNO or CHBA

C QCVAR or ARNO D ARNO or QV61

227 Any blower contactor not closed, causes ..... tripping failure. ( C )

A Operation I B Operation B Part I

**C Operation II** D Operation 'O'

228 Defective MVSI-1 motor causes ..... tripping failure. ( A )

**A Operation I** B Operation B Part I

C Operation II D Operation 'O'

229 Sluggish operation of GR causes tripping of DJ through ……. relay. ( B )

A Q 118 **B Q 44**

C Q 50 D Q 45

230 Struck up of GR in full notches during quick regression causes tripping of DJ through …….. relay energisation. ( A )

**A Q 46** B Q 118

C Q 44 D Q 48

231 Energisation of any safety relay, causes DJ to trip after.. seconds. ( B )

A 0.6 **B 0**

C 0.5 D 5.6

232 Defective Q 30 relay leads to ..... tripping failure. ( C )

A Operation A ending B Operation B Part I

**C Operation B Part II** D Operation 'O'

233 In VCB(SI/Vertical) DJ provided locos, the DJ control circuit is not having ..... branch. ( D )

A Q 44 B MTDJ
C Q 118 **D EFDJ**

234 The defective ARNO leads to ……tripping failure. ( A )

**A Operation A ending** B Operation B Part I
C Operation B Part II D Operation 'O'

235 To over come the Operation B part II tripping failure. ... relay is to be wedged.( C )

A Q 44 B Q 118
**C Q 45** D Q 46

236 For wedging ……. relay in DJ Control circuit, permission of TLC is necessary. ( A )

**A Q 44** B Q 118
C Q 45 D Q 46

237 After taking permission from TLC, before wedging Q-44 relay …… test is to be conducted. ( C )

A Loco brake test B LT test
**C GR efficiency test** D Traction test

238 1st notch tripping failure causes due to ..... or……. defective relays. ( D )

A QVMT 1 or QVMT 2 B QVSL 1 or QVSL 2
C QPH or QVRH **D QVSI 1 or QVSI 2**

239 When Q 45 relay is to be wedged, ensure …… trouble should not be existing in the loco. ( A )

**A Operation A ending** B Operation B Part I
C No tension D Operation A Ending part II

240 6th notch tripping is due to non closing .....contactors or their I/Ls. ( C )

A C 101 or C 102 or C 103 B C 106 or C 107 or C 108
**C C 105 or C 106 or C 107** D C 111 or C 121 or C 118

241 In VCB locos, if DJ N/O I/L parallel to C 118 N/O I/L on MTDJ branch is defective……tripping failure will occur. ( D )

A Operation A Ending B Operation B Part I
C No tension **D Operation A Ending part II**

242 In VCB locos, the C 118 N/O I/L on MTDJ branch is defective, …….. tripping failure will occur. ( A )

**A ICDJ** B Operation B Part I
C No tension D Operation A. Ending part II

243 The defective Q 30 relay causes ……tripping failure. ( B )

A Operation A ending **B Operation B Part II**
C No tension D Operation A Ending part II

244 Relay Q 45 is called as …… relay. ( C )

A DJ protection relay B Auxiliaries protection relay
**C DJ resetting relay** D Notch by notch Progression relay

245 After passing neutral section, If ICDJ is experienced, check ..... & ..... fuses. ( C )

A CCPT & CCBA B Addl. CCBA & CCPT

**C Addl. CCBA & CCBA** D CCPT & CCDJ

246 During manual operation of Q 44 relay, it should not be pressed for more than …….. seconds. ( B )

A 5.6 **B 1**

C 0.5 D 0.6

247 MTDJ (VCB type) coil is called …… coil. ( A )

**A DJ closing, holding & tripping coil** B DJ tripping coil

C DJ closing coil D DJ holding coil

248 EFDJ coil is called ..... Coil. ( C )

A DJ holding & tripping coil B DJ tripping coil

**C DJ closing coil** D None of the above

249 In case Q 45 relay is wedged, DJ will close directly by the moment …….. Switch closes. ( B )

A BLRDJ **B BLDJ**

C BP2DJ D BP1DJ

250 On switching on HBA, …….. relay in DJ control circuit will energise provided Addl. CCBA, CCBA and CCPT are in good condition. ( C )

A Q 45 B Q 44

**C Q 118** D None of the above

251 Defective MPH motor leads to …… tripping failure. ( B )

A Operation A ending **B Operation B Part** I

C No tension D Operation B Part II

252 Defective QCVAR leads to ……tripping failure. ( A )

**A Operation A Ending** B Operation B Part I

C No tension D Operation B Part II

253 Relay Q 118 is having ..... seconds of time lag. ( A )

**A 5** B 6

C 3 D 60

254 Defective QPDJ leads to ……tripping failure. ( C )

A Operation A ending B Operation B Part I

**C ICDJ** D Operation B Part II

255 If relay Q 44 is wedged, the precautions for …….. relay also to be observed along with Q 44 relay precautions. ( B )

A Q 45 **B Q 118**

C QCVAR D None of the above

256 To overcome the Q 30 relay defective trouble, ……. relay can be wedged. ( A )

**A Q 45** B Q 118

C QCVAR D None of the above

257 Relay Q 44 is having ..... seconds of time lag. ( C )

A 1 B 0.5

**C 0.6** D 2

258 When MPJ is put to forward in cab1, the J1 & J2 handles position are ……. ( D )

A J1 up, J2 down B J1 down, J2 up

C both J1,J2 down **D both J1,J2 up**

259 In Static converter loco, to work MCPs….. & …… relays should be energized. ( A )

**A QCON & QTD101** B QTD101

C QCON D Q 100

260 Time delay of QTD 101 relay is ..... seconds. ( B )

A 2 **B 5**

C 0.6 D 60

261 In SIV locos, ..... switch is to be kept on '0', in the event of external earth fault and unable to rectify and to work the train further. ( A )

**A HSIV** B HVSI

C HBA D HCHBA

262 In SIV locos, after keeping HSIV on '0' & pressing ELD bypass switch, time allowed to work the train is ……minutes. ( C )

A No time limit B 60

**C 45** D 30

263 In SIV locos, C108 contactor is provided for …….. motor. ( A )

**A AC MVRF** B DC MVRF

C SIV rectifier D SIV inverter

264 After using RB in SIV locos, experiencing 6th notch tripping, ensure whether ..... contactor is closed. ( B )

A C 108 **B C 107**

C C 118 D C 145

265 In Static converter locos (SIEMENS) ,..... no. of indication lamps provided on SIV Panel. ( C )

A 2 B 3

**C 5** D 4

266 Time delay of QSVM relay is .....seconds. ( B )

A 5 **B 2**

C 0.6 D 60

267 ..... & ..... safety relays are removed in static converter locos. ( D )

A QLM & QLA B QOP1 & 2

C QRSI 1 & 2 **D QOA & QLA**

268 In Microprocessor loco, if experienced TLTE due to malfunctioning of AFL/ACP circuit, change the position of ……. Switch. ( C )

A HAD B HRSZ

**C HPAR** D HBA

269 If DJ is tripped through static converter, …… Lamp glows in both the cabs. ( C )

A LSRSI B Internal fault lamp

**C LSSIT** D External fault lamp

270 To avoid QD action in microprocessor loco, ..... switch to be pressed up to 10th notch. ( A )

**A BPQD** B BPSW

C ZQWC D PSA

271 In micro processor loco, before checking any loco equipment or attending any loco trouble ensure to keep ……. switch in open position. ( C )

A HBA B HPAR

**C BLDJ** D HOBA

272 Location of CHBA ammeter in SIV locos …….. . ( A )

**A On SIV panel** B On switch panel

C On relay panel D On CHBA

273 Rating of CCINV is ..... Amps. ( A )

**A 6** B 16

C 10 D 2

274 To close all line contactors, position of EP1 & EP2 COCs in WAG7 are ……. ( B )

A EP1 & EP2 close **B EP1 & EP2 open**

C EP1 open, EP2 close D EP1 close, EP2 open

275 HRAVT is provided to isolate ....., ....., …… &……. Equipments. ( C )

A Static converter B Micro processor

**C Heaters, cab fans, NR & W/T char**ger D None of these

276 When static converter is not working ……. fuse(s) to be checked. ( D )

A CCINV B CCDJ

C CCA **D CCINV & CCA**

277 In static converter locos, ……fuses to be checked during ICDJ. ( A )

**A Add. CCBA,CCBA, CCPT & CCDJ** B Add. CCBA,CCBA, CCINV & CCA

C CCINV & CCA D None of these

278 In static converter locos compressors will start with a delay of ……..... seconds after extinguishing of LSCHBA. ( B )

A 2 **B 5**

C 60 D 45

279 In SIV locos, if LSSIT glows continuously, crew experiences …….. tripping failure. ( A )

**A ICDJ** B No Tension

C Operation 'A' Ending D None of these

280 In static converter locos during RB, ..... motor stops working and ……. motor starts working. ( A )

**A MVRH , MVRF** B MVRF , MVRH

C MPH , MVRH D None of the above

281 When SIV is working …….. relay energises. ( B )

A QSIT **B QCON**

C QCVAR D None of these

282 In micro processor loco ……fuses are removed. ( A )

**A CCDJ , CCLS, CCA & CCLSA** B CCA & CCINV

C CCINV & CCAD D CCCPU & CCBA

283 ..... & ..... time delay relays are removed in static converter locos. ( A )

**A QTD 105 & 106** B QTD 100 & 101

C QTD 107 & 108 D None of these

284 The correct preparation for traction as well as braking is supervised by .....relay. ( C )

A Q-52 B Q-51

**C Q-50** D Q-49

285 On Siemens make SIV loco panel ..... & ……. lamps glows continuously in normal working of SIV. ( B )

A LSSIT & CHBA ON **B CHBA ON & SIV** ON

C External & Internal fault D OHE out of range & SIV ON

286 .....N/C interlock is provided newly on Q118 branch of SIV DJ control circuit. ( B )

A QSIT **B QCON**

C QSVM D None of these

287 If earth fault occurs in out side of SIV, ..... lamp glows on SIV panel. ( B )

A OHE out of range **B External fault**

C Internal fault D None of the above

288 In static converter loco DJ control circuit, on MTDJ branch ..... relay interlock provided in place of QOA &QLA. ( A )

**A QSIT** B QCON

C QSVM D None of these

289 When TLTE with LSB is experienced, it indicates ……. relay not energized. ( A )

**A Q-50** B Q-51

C Q-52 D Q-48

290 In WAG-5 loco the centre pivot carries …….% of load & each side bearer carries ……..% of load. ( D )

A 40, 60 B 60, 40

C 50, 50 **D 60, 20**

291 In WAG-7 loco the side bearers nearer to the centre pivot carries …….% of vertical load & the side bearers away to the centre pivot carries …… % of vertical load. ( B )

A 40, 60 **B 60, 40**

C 50, 50 D 100, 0

292 ……numbers of brake cylinders are provided in WAG-5 or WAG-7 loco. ( A )

**A 8** B 24

C 6 D 12

293 ……&…… oil points to be checked in WAG-5 or WAM4 bogie(other than Traction motor oils). ( A )

**A Center pivot-1-no & side bearers-2nos** B load bearers 4-nos

C side bearers 4-nos D center pivot-1No, side bearers-4 nos

294 ..... type bogie provided in WAG-7 locos. ( B )

A Co-co tri mount bogie **B Co-co tetra mount high adhesion bogie**

C Co-co flexi coil bogie D Bo-bo tri mount bogie

295 ..... type bogie provided in WAP-4 locos. ( C )

A Co-co tri mount bogie B Co-co tetra mount high adhesion bogie

**C Co-co flexi coil bogie** D Bo-bo tri mount bogie

296 When hand brake is applied in WAG-5 or in WAG-7 locos, ……&…… wheels brakes gets apply. ( A )

**A No-2 both sides, no-4 one side** B No-2 both sides

C No-1 both sides, no-2 one side D No-4 both sides, no-2 one side

297 When hand brake is applied in WAP-4 locos ……wheel gets apply. ( B )

A No-2 both sides, no-4 one side **B No-2**

C No-1 both sides, no-2 one side D No-4

298 QWC relay's action is up to ..... notch, when ZQWC is pressed ( 18 shunting contactors loco). ( C )

A 20 B 15

**C 10** D 1

299 When dead loco is attached on formation, if loco brakes are not releasing proportionally, …… is to be isolated in dead loco to avoid wheel skidding. ( A )

**A C3W Valve** B C2A

C MU2B D Both cab A 9

300 Switch OFF blowers when the train is expected to stop for more than ……minutes to conserve the energy. ( C )

A 10 B 30

**C 15** D 20

301 If train is expected to stop for more than …… minutes lower the panto with the consultation of SM/SCOR. ( A )

**A 30** B 15

C 45 D 60

302 Location of hand brake in crew friendly locos is ……. ( C )

A Cab-1 left side locker B Cab-1 right side locker

**C Cab-1 on floor** D Cab-2 on floor

303 During RB, working of MVRF is indicated through ……. Lamp. ( B )

A LSAFL **B LSDBR**

C LSOL D LSGRPT

304 In Static inverter fitted loco …… lamp is provided to indicate the tripping of static inverter. ( C )

A QSIT B LSGRPT

**C LSSIT** D LSAF

305 While working with MU, If CHBA is failed in trailing loco …… & …… lamps will glow in leading loco. ( C )

A LSCHBA & LSGRPT B LSGRPT & LSOL

**C LSOL & LSCHBA** D None of the above

306 While working with MU, If tell-tale fuse is projected in leading loco …… & …… lamps will glow in leading loco. ( B )

A LSRSI & LSOL **B LSRSI & LSGRPT**

C LSOL & LSGRPT D None of the above

307 While working with MU, If tell-tale fuse is projected in trailing loco …… &…… lamps will glow in leading loco ( A )

**A LSRSI & LSOL** B LSRSI & LSGRPT

C LSOL & LSGRPT D None of the above

308 While working with MU, If Q 50 is de energised in leading loco …… & …… lamps will glow in leading loco. ( C )

A LSB & LSOL B LSOL & LSGRPT

**C LSB & LSGRPT** D None of the above

309 While working MU, If Q 50 is de energised in trailing loco …… & ……lamps will glow in leading loco. ( A )

**A LSB & LSOL** B LSOL & LSGRPT

C LSB & LSGRPT D None of the above

310 If signaling lamps are not working defect may be with ……
…….. Fuses ( D )

A CCBA & Addl.CCBA B CCPT & CCLS
C CCLC & CCBA **D Addl.CCBA & CCLS**

311 Q 20 actions are ( A )

**A Auto regression of GR, glowing of LSOV & sounding of SON** B Glowing of LSOV & sounding of SON
C Sounding of SON D None of the above

312 While working with MU …… lamp glows in healthy loco, …… lamp glows in defective loco. ( A )

**A LSOL & LSGRPT** B LSOL & LSOV
C LSGRPT & LSAFL D LSGRPT & LSOL

313 While working with MU, If DJ is tripped in leading loco …… & …… lamps will glow in leading loco. ( D )

A LSDJ & LSGRPT B LSOL & LSOV
C LSOL & LSGRPT **D LSDJ, LSCHBA, LSB,LSGR & LSGRPT**

314 While working with MU, If DJ is tripped in trailing loco …… & …… lamps will glow in leading loco. ( D )

A LSDJ & LSGRPT B LSOL & LSOL
C LSOL & LSGRPT **D LSDJ, LSCHBA, LSB & LSOL**

315 When ZQWC is pressed, QWC relay will energise only when GR is on ……. notch(es). ( C )

A '0' B '1'
**C '0' or '1'** D on & above 20th

316 While attaching loco on to formation stop the loco first at .....mts from formation. ( C )

A 10 B 15
**C 20** D 25

317 In roof mounted RB provided WAP-4 locos, revised setting of QF relay is .....Amps. ( C )

A 700 B 800
**C 850** D 900

318 After resetting BPEMS switch, operate ZPT from …… position to ……..position. ( A )

**A 0, 1** B 2, 0
C 1, 0 D 1, 2

319 Earth fault in line contactors coils causes, …… fuse to melt. ( A )

**A CCPT** B CCA
C CCDJ D CCLSA

320 In conventional locos, if VCD is not acknowledged, after 60secs, ..... will happen for next 8secs. ( B )

A Alarm will sound **B Yellow flashing light will glow**
C Auto regression and BP D All the above

Drops

321 In conventional locos, when VCD is acted, .....
.....actions will take place. ( A )

**A Auto regression and BP drops** B DJ trips
C Panto lowers D None of the above

322 In conventional locos, to acknowledge VCD, Ack. push button / paddle switch should not be pressed for more than …Secs. ( D )

A 30 B 32
C 45 **D 60**

323 When BPEMS is pressed, ..... actions will take place. ( D )

A DJ trips B Panto lowers
C BP drops **D All the above**

324 In conventional locos, VCD acknowledgment is done by operating ……. once in every 60 seconds (write any two).
( D )

A A-9 or SA-9 B Sander or horns
C Progression or regression or Ack. **D Any one of the above**

325 In conventional locos, if VCD is not acknowledged, after 68secs, ..... will happen for next 8secs. ( C )

A Alarm will sound B.Yellow flashing light will glow
C **Alarm will sound and yellow light will glow** D. Auto regression and BP drops

326 In conventional locos, before resetting VCD, ……. to be operated. ( B )

A HBA to be kept in '0' and '1' **B MP to be kept on '0'**
C ZPT to be kept in '0' and '1' D MPJ to be moved to 'N' and Then 'F'

327 In conventional locos, for resetting VCD, ..... to be pressed. ( C )

A BPP/BPR B horns
**C Ack. Or Reset button** D sanders

328 In conventional locos, in case of any malfunctioning, to isolate VCD, keep ..... switch in 'OFF' position. ( A )

**A VCD Bypass** B Reset
C Acknowledgement D None of the above

329 When ever cattle run over takes place, if BP dropped due to front side BP angle cut-off cock is broken , the duty of LP is to maintain BP pressure is by closing …… ( C )

A A8 coc B RAL coc
C **Front side Addl. BP angle coc** D A-9 coc

330 Controlling fuse for SMGR control circuit is ..... ( A )

**A CCPT** B CCA
C CCBA D CCDJ

331 Before taking notches, if Q51 is in energised condition crew experiences ..... traction failure. ( B )

A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

332 GR travelling time (0 to 32 notches) for progression is.... seconds. ( A )

**A 11 to 13** B 10 to 12
C 32 D 15

333 While operating GR manually ..... equipment to be observed. ( D )
A PHGR B RPGR
C CGR arc-chutes **D RGR**

334 For operating GR manually take out ZSMGR handle from...position. ( C )
A 6 O' clock B 7 O' clock
**C 3 O' clock** D 5 O'clock

335 While operating GR manually GR shall be rotated within …….. seconds. ( A )
**A 0.5** B 0.6
C 5 D None of above

336 When MP is moved from traction to braking side, the correct preparation for braking is ensured by glowing and extinguishing of ..... signalling lamp. ( B )
A LSP **B LSB**
C LSGR D LSRSI

337 During RB if DJ trips, ..... valve de-energises and causes destruction of BP pressure automatically. ( A )
**A IP(E)** B IP(M)
C VEF(E) D VEF(M)

338 Whenever DJ is tripped on notches GR comes to zero by... relay. ( D )
A Q52 B Q51
C Q46 **D Q50**

339 While operating GR manually MP should be placed in ....Position. ( D )
A O B +
C - **D N**

340 Auxiliary controlling relay is ..... ( D )
A Q118 B Q49
C Q119 **D Q100**

341 In EP C118 provided locos Q100 is replaced with ..... Relay. ( C )
A Q119 B Q120
**C QTD100** D Q121

342 When BLVMT is defective blowers can be started by--------- ( C )
A Wedging contactors B Changing switch position
**C Taking a notch** D Ask relief loco

343 When C107 is not closed, try by keeping ……switch on… position. ( B )
A HVRH, 2 **B HVRH, 3**
C HVRH, 1 D HVRH, 0

344 After wedging any 3 phase EM contactor ensure..... without fail. ( C )
A Proper closing of 3 tips B Motor is working
**C Both A & B** D None of above

345 ..... fuse will melt, when earth fault occurs in J1 / J2 coils. ( A )
**A CCPT** B CCBA
C CCA D CCLS

346 During RB, all traction motor fields are connected in---------- ( B )
A Parallel **B Series**
C Series-parallel D None of the above

347 While using RB ..... brakes should not be used to avoid loco wheel skidding. ( B )

A Formation(A-9) **B SA-9**
C All above D None of the above

348 If ..... number of fuses are projected in same RSI block, isolate concerned block and work further. ( A )
**A 2 or more** B 1
C All above D None of the above

349 QD actions are ( D )
A Auto regression of few notches B Auto sanding
C LSP glows **D All the above**

350 Traction motor meter connections in Cab-1 are ..... and in Cab-2 are ..... . ( A )
**A U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6**, B A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,
C A1-TM3, A2-TM4, U1-TM1, A4-TM4,U5-TM5, U6-TM6, D None of the above

351 The controlling fuse for reversers control circuit is ……. ( C )
A CCA B CCDJ
**C CCPT** D CCLS

352 When rear cab BL is not locked properly, crew experiences ……Traction failure. ( D )
A TLTE with LSB B TLTE with out LSB
C Auto regression with LSP **D 1st notch auto regression with out LSP**

353 On run when GR is on notches and CCPT is melted,…….. happens in the loco. ( D )
A Panto lowers B GR comes to zero
C DJ trips **D Both A & C**

354 When CCA is melted crew experiences ..... tripping failure. ( B )
A Operation O **B Operation-II**
C Operation-I D Operation-B part-I

355 When Q100 is not energized crew experiences …… tripping failure. ( C )
A Operation-O B Operation-I
**C Operation-II** D Operation-B part-I

356 When C106 is not closed, try by keeping …… switch on ……. position. ( D )
A HVMT-2, 2 B HVMT-2, 0
C HVMT-2, 1 **D HVMT-2, 3**

357 Purpose of Q119 is ..... . ( D )
A To enrgise VEULs B Late starting of MCP-3
C To energise VEAD **D Both A & B**

358 During RB..... valve energizes automatically to avoid proportional working. ( B )
A Auto drain **B VEF(E)**
C RGCP D VEAD

359 When notches are not progressing & regressing by MP, try with---- ( A )
**A EEC operation** B GR manual operation
C Ask for relief loco D None of the above

360 When Pacco switch is in pressed condition, crew experiences …….. traction failure. ( B )

A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

361 If Q52 is permanently energised, crew experiences ..... traction failure. ( B )
A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

362 In conventional locos, if CHBA is isolated, work the train for…….
hours during day time and ……. hours during night time with minimum utilization of battery supply. ( A )
**A 6, 4** B 4, 6
C 5, 4 D 6, 3

363 While changing Bi-polar switch on DC-DC converter, ..... switch to be switched off. ( B )
A BLPRF **B ZRT / ZPR**
C BLPRR D BLPRD

364 The minimum battery voltage required to energise conventional AC loco is ..... Volts. ( B )
A 50 **B 90**
C 110 D 100

365 If CCBA is melting even HOBA is in OFF position …… to be checked. ( D )
A PANTO B DJ
C CHBA **D LTBA**

366 On closing HBA and ZUBA, if UBA reads zero volts ..... fuse to be checked. ( B )
A CCBA **B Addl. CCBA**
C CCA D CCPT

367 When BPSW is pressed ..... valve energizes. ( B )
A PR1 **B MV4**
C PR2 D QWC

368 ..... relay causes Auto Regression during AFL working. ( B )
A PR1 **B PR2**
C RGEB2 D Q20

369 During A9 application ..... Relay energises and nullifies the AFL actions. ( D )
A Q-121 B Q-120
C QFL **D PR-1**

370 Length of the conventional type of Neutral section is .....meters. ( C )
A 42 B 45
**C 41** D 4.8

371 The purpose of ATD in OHE is ..... . ( A )
**A Maintains tension in OHE** B Uniform wear & tear of panto
C A & B D None of the above

372 To maintain uniform wear & tear of panto pan ……
arrangement is provided on OHE. ( B )
A ATD **B Staggering**
C Anti creep D A & B

373 Emergency telephone sockets are provided at a distance of
…….. metres along the track. ( A )

**A 1000 /900** B 1500
C 800 D 750

374 In modified locos Notch Repeater is gets supply from------- (A )
**A CHBA** B DC-DC Converter
C TFVT D ARNO

375 The controlling fuse for reversers control circuit is ……. ( C )
A CCA B CCDJ
**C CCPT** D CCLS

376 When head light is not glowing work the train with maximum ..... kmph speed during night time. ( C )
A 50 B 30
**C 40** D 60

377 Purpose of additional CCBA is …….. ( A )
**A Protects BA +ve cable** B Protects BA –ve cable
C Protects CHBA D Protects UBA

378 The OHE supply of two traction substations is separated by------- ( A )
**A Neutral section** B SP
C SSP D TSS

379 The length of PTFE neutral section is ..... meters. ( C )
A 2.8 B 4.2
**C 4.8** D 5.2

380 The zig-zag arrangement of contact wire is called as-------- ( D )
A Auto tension B Regulating
C Un-regulating **D Staggering**

381 On run, if OHE contact wire is found hanging, the immediate duty of the crew is …… ( B )
A Inform TLC **B Keep ZPT on "0" and apply Emergency brakes or press BPEMS.**
C Inform TPC D None of the above

382 If ATDs are provided at both ends of contact and catenary wires, it is known as ..... type of OHE. ( C )
A Un-regulated B Semi- regulated
**C Regulated** D Un-known

383 The purpose of the CHBA is ..... & ..... ( D )
A Charging Batteries B Supply to Arno
C Supply to all control circuits after closing DJ **D both A & C**

384 If ATDs are not provided at both ends of contact and catenary wires, it is known as ……. ( A )
**A Unregulated OHE** B Semi regulated OHE
C Regulated OHE D Un known

385 Traction motor meter connections in Cab-1 are ..... and in Cab-2 are ..... ( A )
**A U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6**, B A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,
C A1-TM3, A2-TM4, U1-TM1, D None of the above

A4-TM4,U5-TM5, U6-TM6,

386 Total no. of roof bars provided in WAG 5 loco are …… ( B )

A 6 **B 6+2**

C 4 D 4+2

387 Total no.of roof bars provided in WAP 4 loco are …… ( D )

A 6 B 6+2

C 4 **D 4+2**

388 In conventional locos, to close DJ ..... BL switches to be operated. ( C )

A BLDJ B BLRDJ

**C BLDJ, BLRDJ** D BLSN

389 In VCB type (DI) DJ, to close&maintain DJ ……electro valve(s) to be energized.( A )

**A MTDJ** B MTDJ & EFDJ

C C118 D EFDJ

390 Location of MU2B in crew friendly locos is …….. ( C )

A Motor chest no.1 B Motor chest no.2

**C Pneumatic panel** D Switch panel

391 When panto is raised and DJ is open position, …… protects roof equipment against surge voltage. ( C )

A ETTFP-1 B ET- 2

**C ET- 1** D ET TFP- 2

392 After closing DJ, …… protects main transformer against surge voltage. ( B )

A ETTFP-1 **B ET-2**

C ET-1 D ETTFP-2

393 .....Relay is called as TM output over current relay during RB. ( A )

**A QF-1 or QF-2** B QE

C QRSI-1 or QRSI-2 D None of the above

394 Arno starting phase is given through …… contactor & ……resistance. ( A )

**A C118 & R118** B C118 & RGR

C C145 & R118 D C108 & RPGR

395 Starting phase of ARNO is suppressed by……. relay. ( B )

A Q45 **B QCVAR**

C Q30 D Q44

396 Poly glass material projecting from TM vent mesh is called as ..... failure. ( C )

A Short circuit B Over current

**C Banding failure** D None of the above

397 Earth fault in MPH motor causes tripping of DJ through…….relay. ( C )

A QLA B QOP-1

**C QOA** D QRSI-1

398 If MPH motor is isolated, starting 5 minutes……Amps current and continuously……Amps current to be observed for TM. ( A )

**A 920, 500** B 500, 500

C 750, 500 D 1000, 500

399 If MVSL-2 is not working, work the train by isolating------- ( D )

A No restriction for TM B isolate bogie-2

current ratings

C Work 50% load **D Above all**

400 If MVRH motor is isolated, starting 5 minutes .....Amps current and continuously……Amps current to be observed for TM. ( A )

**A 920, 500** B 500, 500

C 1000, 750 D 1000, 500

401 In few locos in place of roof bushing bar …… is provided. ( C )

A LT cable B LT & HT cables

**C HT cable** D None

402 In conventional locos, ……motors are called direct motors. ( D )

A MPH, MVSI-1 B MVSI-2, MVSL-1

C MVSL-2 **D All the above**

403 MVMT 1 & MVMT 2 are …… type of auxiliary motors. (D )

A direct auxiliary B starts along with ARNO

C Both A & B **D remote controlled**

404 To isolate the TM-5 in WAG-7 loco, HMCS-2 has to be placed in ..... position and…… bit to be packed on –ve side of TM. ( C )

A 3, J1-10th B 3, J1-8th

**C 3, J2-10th** D 3, J2-8th

405 To isolate the TM-3 in WAP-4 loco (without RB), HMCS-1 has to be placed in …… position and ..... bit to be packed on –ve side of TM. ( D )

A 4, J1-12th B 4, J1-10th

C 4, J2-6th **D 4, J1-6th**

406 To isolate the TM-4 in WAP-4 loco (With RB), HMCS-2 has to be placed in ……position and …… bit to be packed on –ve side of TM. (B )

A 2, J2-6th **B 2, J2-8th**

C 1, J2-6th D 2, J1-8th

407 Location of IP mechanical valve with coc in crew friendly locos is..... ( C )

A Cab-1 left side locker B Motor chest no.1

**C Pneumatic panel** D Motor chest no.2

408 In WAG-5 loco during RB application, if there is earth fault in TM-6 field .....relay will act. ( A )

**A QOP-1** B QOP-2

C QRSI-1 D QE

409 After moving MP to 'P' position, .....contactor closes. ( B )

A C-107 **B C-145**

C C-118 D C-111

410 ..... relay will act when banding failure takes place in TM-1. ( C )

A QRSI B QLM

**C QOP-1** D QOP-2

411 If banding failure takes place clear the section with not exceeding..... Kmph of restricted speed. ( D )

A 40 B 25

C 10 **D 15**

412 ATFEX comes into service after closing ..... contactor. ( C )

A C-108 B C-118
C CTF-3 **D C-145**

413 .....number of shunting contactors provided in WAG-5 orWAG-7 locos. ( D )
A 24 B 16
C 22 **D 18**

414 …… relay is called traction power ciruit-1 earth fault protection relay. ( B )
A QOP-2 **B QOP-1**
C QOA D QRSI-1

415 RPS resistances are cooled by .....motor. ( C )
A MVSI-1 B MVSL-1
**C MVRH** D MVMT-1

416 RB should not be used if .....relay is wedged in energized condition. ( D )
A Q44 B Q118
C Q51 **D Q50**

417 During RB, MVRF motor gets feed from …….. TM. ( A )
**A TM-1** B TM-2
C TM-4 D TM-6

418 To isolate the TM-1 in WAG-5 loco, HMCS-1 has to be placed in .....
position and …….. bit to be packed on –ve side of TM. ( B )
A 2, J1-6th **B 2, J1-8th**
C 2, J2-8th D 3, J1-8th

## G & SR/ Accident Manual

1 Approved special instructions are issued or approved by _____ (C)
(A) COM (B) DRM **(C) CRS** (D) Sr DOM

2 Special instructions are issued by _____ (A)
**(A) Authorized Officer** (B) Controlling officer
(C) Supervisor in charge (D) All the above

3 _____is the authorized officer of South Central Railway. (B)
(A)CRS **(B) COM** (C) DRM (D) CSO

4 ____ is the normal authority to proceed on Single Line token/token less sections. (C)
(A) Starting Memo (B) T/409
**(C) Token/off aspect of LSS** (D) None

5 On Double line or on Single Line when block instrument is defective
_____ is given as ATP for the LP. (D)
(A) T/A 912 (B) T/511
(C) T/512 **(D) T/C-D 1425**

6 Block stations under Absolute Block System are sub-classified as _____ (C)
_____, _____ & _____.
(A) Flag , Crossing, Non-Crossing ,Run Through
(B) Reporting, Non Reporting, Classified, Unclassified
**(C) Class A,B,C&D**
(D) All of the above

7 BOL in TAS and MAS is _____ and _____ meters,
which shall be reckoned from _____ (B)
(A) 200-180-LSS **(B) 400 -180-FSS**
(C) 120-120-LSS (D) 200-180 -FSS

8 SOL in TAS and MAS is _____ and _____ meters. (C)
(A) 120-120 (B) 400-180 **(C) 180-120** (D) 180-180

9 SOL is measured on Single Line from _____ and on Double Line from_____. (A)
**(A) Trailing Points-Shunting Limit Board** (B) BSLB-SLB
(C) Trailing Points -BSLB (D) LB-PB

10 The distance from Home signal to BSLB shall not be less than ___meters. (A)
**(A) 180** (B) 120 (C) 400 (D) 580

11 At Standard-I (R) interlocking station the maximum speed (B)
permitted for the train on ML is not more than _____ kmph.
(A) 15 **(B) 50** (C) 75 (D) MPS

12 At Standard-III (R) interlocking station the maximum speed
permitted for the train on ML is above _____ kmph. (C)
(A) 15 (B) 50 **(C) 140** (D) MPS

13 The maximum speed permitted on loop line is _____ kmph. (B)
(A) 15/25 **(B) 15/30** (C) 8/10 (D) 10/15

14 Isolation is necessary where the trains are permitted to go above (B)
_____ kmph at a station.
(A) 15 **(B) 50** (C) 75 (D) MPS

15 _____ is the best positive method of isolation. (D)
(A) Cut Point (B) Catch Siding
(C) Slip Siding **(D) Sand Hump**

16 Point indicator, wherever available shall show _____ during day and _____ light during night when point is set for Main line . (B)
(A) Red Target-Red **(B) White Target-White light**
(C) Green Target-Green (D) No Target-Green

17 Point indicator, wherever available shall show _____ during day and _____ light during night when point is set for Loop line. (D)
(A) White Target-White (B) Green Target – Green light
(C) No Target – White **(D) No Target - Green**

18 When Trap indicator is provided, it shall show _____ during day and _____ light during when it is in open position. (B)
(A) White Disc - White **(B) Red Disc - Red light**
(C) No Target – White (D) None of the above

19 Station limits are available between _____ signals at a Block Station (B)
(A) Inner Most **(B) Outer Most** (C) Home (D) LSS

20 At Class „D" station, station limits are available between _____ (A)
**(A) Platform Ends** (B) BSLB (C) Fog Signal Posts (D) FSS

21 On Double line, class „B" station two aspect signalling, station section lies between _____ signal to ____signal in either direction. (B)
(A) Home - Starter **(B) Home - LSS** C) Distant - LSS (D) Distant-Home

22 On Double line class "B" station Multiple Aspect Signalling station section lies between _____ to _____ signal in either direction. (C)
A) SLB-LSS (B) Home-LSS **(C)BSLB-LSS** (D) BSLB-HOME

23 Station Section is available only at _____ Station. (B)
(A)CLASS A **(B) CLASS B** (C)CLASS C (D) CLASS

24 Sub-Rules are framed by _____. (A)
**(A) Authorized Officer** (B) Reporting Officer
(C) Competent Authority (D) DRM

25 General Rules can be amended by (A)
**(A)Railway Board** (B) Railway Tribunal
(C)Joint consultant machinery (D) GM

26 South Central Railway is divided into _____ Zones for the purpose of Weather Warning. (A)
**(A) 8** (B) 7 (C) 9 (D) 1

27 Heavy winds above _____ kmph is considered as dangerous for running trains.. (A)
**(A) 65** (B) 45 (C)30 (D) 25

28 Rainfall above _____ cross in 24 hours is considered as dangerous for running trains. (A)
**(A) 5CM** (B)6 CM (C) 7CM (D)8CM

29 When there is severe storm endangering the safety of passenger trains, SM shall not _____ or _____ (C)
(A)Exchange of all right signal (B) Take OFF LSS or Take off Starter
(**C) Grant LC or Give LC** (D) None of the above

30 If train parting is observed by any Railway Servant _____ signal should not be exhibited. (B)
(A) Right **(B) Danger** (C) No (D) None

31 At non-interlocked station, speed of the trains on main line shall not exceed _____ kmph. (A)
**(A)15** (B)20 (C)35 (D) 45

32 Block forward and Block back is permitted only on _____ (B)
(A)Single Line **(B) Double Line**
(C) Triple Line (D) None

33 Axle counters and track circuits are treated as authorized _____. (A)
**(A)Means of Communication** (B) Means of Knowledge
(C)Means of Transportation (D) None

34 A train, which has started under an ATP and has not completed its journey, is called _____. (C)
(A)SOL (B) POL **(C) TOL** (D) None

35 A fixed stop signal of a station controlling the entry of trains into next block section is called _____. (C)
(A) FSS (B) STARTER **(C) LSS** (D) None

36 Signals used for controlling movement of trains as per G & SR are _____ and _____. (A)
**(A)Fixed, Hand, Detonating, Flare** (B) FSS, HOME, LSS
(C)Shunt Signals and Calling ON (D) None

37 An independent Warner signal will have a _____ light above the signal at a distance of _____ (B)
(A) 1.2 MTS **(B) 1.5MTS** (C) 2.0 MTS (D) 1.0 MTS

38 In double distant territory if ID showing proceed aspect indicates (A)
**(A)Next Block section is clear and passing through station mainline**
(B)Station Section is clear (C) Main Line Occupied (D) None

39 At a class „B" station, Warner signal is required only when the speeds of trains exceeds _____ kmph. (D)
(A) 40 (B) 25 (C) 15 **(D) 50**

40 In colour light area distant signals are identified by (D)
(A)S-Marker (B) T marker (C) G marker **(D) P marker**

41 Distant signal tells about the aspect of _____ signal ahead. (A)
(**A)STOP** (B) PROCEDE C) ATTENTION (D) DANGER

42 In semaphore distant signal, the distant between two yellow lights in "attention" aspect is _____. (A)
**(A) 1.5 METERS** (B) 2.0METERS
(C) 3.0 METERS (D) 4.5 METERS

43 Distant signal location is _____ meters before the stop signal. (A)
**(A)Not less than 1000 meters** (B) not less than 500 meters
(C)Not less than 200 meters (D) Not less than 1500 meters

44 Wherever double distant signal is provided, distant signal location is _____ meters before the stop signal. (A)
(**A)Not less than 2000 meters** (B) not less than 500 meters
(C)Not less than 200 meters (D) Not less than 1500 meterss

45 The normal aspect of distant signal on double distant signal area is _____aspect. (B)
(A) Caution **(B) Attention** (C) Danger (D) Proceed

46 _____is not required wherever double distant signal is provided. (A)
**(A)Signal warning board** (B) Outer (C) Distant (D) LSS

47 When colour light distant is combined with Gate / LSS, the normal aspect of that signal is _____. (B)
(A)Proceed **(B) Danger** (C) Caution (D) Attention

48 Outer signal is available only at _____ station with _____ type of signals (B)
(A) Class A-MAS **(B) Class B-TAS** (C) Class D-MAS (D) Class C-TAS

49 At a class „B" station, Single line with MAS, the distance from home signal to outermost facing point shall be not less than _____ meters. (A)
**(A) 300** (B) 200 (C) 500 (D) 180

50 In MAS, a single arm home signal is sufficient (common Home) as long as the train speed does not exceed _____ kmph. (C)
(A) 50 (B) 65 **(C) 75** (D) 15

51 Starter signal protects _____ (B)
(A) Facing Points **(B) Trailing Points** (C) Block Section (D) Station section

52 Advanced Starter signal protects _____ (B)
(A)Station section **(B) Block section** (C) Signalling section (D) None

53 To start a train from a station having common starter, the LP shall be given _____ + _____+ _____. (A)
**(A)T/ 512, ATP, PHS** (B) T/511, ATP, PHS
(C)T/409, ATP, PHS (D)T/369 3(b),ATP,PHS

54 Emergency telephone point is located at every _____ meters in OHE area. (A)
**(A) 1000** (B) 1500 (C) 900 (D) 1600

55 General target time for turning out MRV with direct /indirect despatch facility is _____ minutes. (B)
A)30/45 **B) 15/20** C) 20/15 D)5/10

56 Accidents are classified into ------- categories and they are (C)
A)2 B)3 **C)5** D)4

57 General target time for turning out ART during day / night is _____ minutes. (A)
**A)30/45** B) 15/20 C) 20/15 D)5/10

58 Except _____ signal, the calling ON signal can be placed below any stop signal. (B)
(A)FSS **(B) LSS** (C) Starter (D) Calling on

59 Except _____ signal, shunt signal can be placed below any stop signal. (A)
**A)FSS** (B) LSS (C) Starter (D) Calling on

60 Calling ON signal will show _____ light in "ON" position. (D)
(A) Red (B) Green (C) White **(D) No**

61 Calling ON signal is to be used only on two occasions, they are____ and____ . (A)
**(A) Signal is defective, Line is occupied** (B) Point failure, on inter locking working
(C) Derailments, accidents (D)None of the above

62 Signal sighting committee comprises of ____, ____, and _____**.** (B)
(A)TI,LI,PWI **(B)LI,SI,TI** (C)LI,PWI,SI (D)SS,LI,TI

63 Signal sighting committee will go on footplate inspection once in _____months. (A)
**(A) 3** (B) 2 (C) 4 (D) 5

64 Calling ON signal cannot be taken "OFF" during _____ failure. (C)
(A) Signal (B) Track **(C) Point** (D) Block instruments

65 Shunt signal below starter will show _____ light in "ON"position. (D)
(A)Red (B) Green (C) White **(D) No**

66 Shunt signal protects _____. (A)
**(A)Points** (B) Track (C) Signal (D) None

67 Independent shunt signal or shunt below stop signal when defective _____ is the authority to pass at "ON" for LP. (A)
**(A)T/369 3(b)+PHS** (B) T/409 (C)T/512 (D)T/511

68 Shunt signal is of _____ types, and they are _____ and _____ (B)
(A) 2, Colour Light, semaphore **(B) 3, Miniature Arm, Disk, Position**
(C) 1, colour light (D) none of the above

69 _____Type of shunt signals are provided only in colour light area. (A)
**(A)Position** (B) Disk (C) Miniature arm (D) All the above

70 Detailed working instructions about Shunting Permitted Indicator are available in _____. (A)
**(A)SWR** (B) TSR (C) CO (D) None

71 When Shunting Permitted Indicator is defective, _____ is the authority for the LP. (A)
(**A)T/369 3(b)+PHS** (B)T/409 (C)T/512 (D) PHS

72 Co-acting signals are also known as _____ signals. (A)
(**A)Duplicating** (B) Repeating (C) Calling on (D) All of the above

73 _____ type of signal will not show any light in any position at any time. (A)
**(A)Banner type repeating** (B) Calling ON
(C)Co acting (D) All the above

74 When LP finds that the repeating signals in any way defective, he shall report the matter to _____. (C)
(A)Next reporting station (B) Rear Station
(**C)Next Stopping Station** (D) Crew Lobby

75 At the end of semaphore arm having a black ring denotes, that signal is for _____. (A)
**(A) Goods lines** (B) Passenger Lines (C) Loop lines (D) None

76 IB signal is identified by _____ (C)
(A)ID Marker (B)P marker **(C) IB Marker** (D)C Marker

77 IB signal will have _____ facility. (A)
**(A)Phone Facility** (B) Calling ON (C)Axle counter (D) All the above

78 Gate signal is identified by _____. (A)
**(A) G Marker** (B) P marker (C) IB Marker (D) ID Marker

79 Route indicators are treated as _____. (B)
(A) Permissive (**B) Stop Signals** (C) Duplicating (D) Repeating

80 Route indicators are of __ types and they are (a) ____, (b)____, (c) _____. (A)
(**A) 3, multiple, stencil, Junction** (B) 2, colour light, semaphore
(C) All the above (D) none of the above

81 There are four types of Electric repeaters and they are (a)_____ (b) _____ (c) _____ (d) _____. (A)
**(A) Signal arm, Signal light, Miniature light, Light emitting diode type**
(B) Stencil, junction, multiple, Semaphore
C) Reception, dispatch, admission, junction
(D) None of the above

82 The electrical repeaters of a departure signal when defective, the corresponding _____shall also be treated as _____ immediately. (B)
(A) Points -defective **(B) signal-defective**
(C) line-defective (D) track -defective

83 The backlight of the signal is visible only in _____ position. (A)
**(A) ON** (B) OFF (C) Defective (D) working

84 Shunting limit board is provided at _____. (A)
(**A) Class-B** (B) Class-A (C) Class-C (D) Class-D

85 Block Section Limit Board is provided at _____ station with _____ signals where the first point is a trailing point or where there are _____ . (B)
(A)Class B, TAS, No signals **(B) Class B, MAS, No points**
(C) Class A, TAS, No signals (D) none of the above

86 Outlying siding points are identified by _____ mark board. (B)
(A) P **(B) S** (C) IB (D) G

87 Detailed working instructions about outlying siding are incorporated in _____. (A)
**(A) SWR** (B) TSR (C) PNR (D) None of the above

88 A signal which is taken "OFF" for a train will be put to "ON" position only to _____ or when information about engine failure is received. (B)
(A) Issue emergency caution order **(B) Avert accident**
(C) give precedence to other train (D) none of the above

89 Home signal lever / switch will be normalized after the passage of_____ . (C)
(A) Goods train (B) Passenger Train **(C) Whole train** (D) none of the above

90 The reception stop signal shall be tested by SM ___ and pass the remarks in ___. (C)
(A) Monthly, SWR (B) Weekly,SWR
**(C)Daily, Station Dairy** (D) All the above

91 Whenever signal inspector is testing the signal, the remark shall be recorded __. (C)
(A) SWR (B) SR **(C) Station Diary** (D) All the above

92 _____ No. of detonators shall be placed at a distance of _____ meters from the in Automatic Block System to stop a train "Out of Course". (B)
(A) 3,120 **(B) 2,180** (C) 1,120 (D) none of the above

93 Normal setting of points is for _____. (A)
**(A) Main Line** (B) Loop Line (C) common loop (D) Branch line

94 On single line, immediately after the arrival of a stopping train, the in _____ and in _____ shall be set against the _____. (A)
**(A) front, rear, line train occupied** (B) front, rear, loop line
(C) Front, rear, mainline (D) none of the above

95 On double line after the arrival the stopping train, the point's _____ will be set against the _____. (C)
(A) Front, rear, mainline (B) front, rear, loop line
(**C) Rear, line train occupied** (D) none of the above

96 When all the lines at a station are blocked by passenger carrying trains, and still line clear is granted for a train, the points shall be set for _____. (A)
**(A) Turnout preferably express** (B) turnout preferably passenger
(C) Turnout preferably engine fouling (D) none of the above

97 To receive a stopping train on loop line having sand hump or buffer stop, the points must be set for _____ only. (B)
(A) Main line **(B) sand hump** (C) None of the above ( D) A & B

98 _____, _____, _____ signals are prohibited to be used for shunting purpose. (C)
(A) Calling ON, Starter and LSS (B) Calling ON, Home and Starter
**(C) LSS, Home and Outer** (D) None of the above

99 When _____ glass roundel is broken in semaphore stop signal, the signal is treated as defective during _____ only. (B)
(A) Green-Night **(B) Red-Night** (C) Red- Day (D) Green-Day

100 During power block _____ trains are only permitted to run. (D)
(A) Passenger (B) Goods C) Sub-Urban **(D) Diesel**

101 Catch siding is intended to protect _____ . (C)
(A) Block section (B) Station limits **(C) Station section** (D) none of the above

102 Slip siding is intended to protect _____. (A)
**(A) Block section** (B) Station limits (C) Station section (D) none of the above

103 When there is a falling gradient of _____ towards station section the provision of catch siding is compulsory. (B)
A) 1 IN 100 **(B) 1 IN 80** C) 1 IN 200 (D) 1 IN 150

104 When there is a falling gradient of _____ towards block section the provision of slip siding is compulsory. (A)
**(A) 1 IN 100** (B) 1 IN 80 (C) 1 IN 200 (D) 1 IN 150

105 Catch / Slip siding points key can be extracted from the block Instrument, only when the block instrument is in _____. (C)
(A) Open position (B) Locked position **(C) Closed position** (D) none of the above

106 Normal setting of points wherever catch / slip sidings are provided is for _____ . (C)
(A)Main line (B) Loop line **(C) Catch/Slip sidings** (D) none of the above

107 Catch siding length shall be suitable to _____ (B)
(A)Shortest Train in section **(B) Lengthiest Train in section**
(C) None of the above (D) A & B

108 Catch and Slip siding not be used for _____ and _____ purposes. (A)
**(A) Stabling-Shunting** (B) passenger-express
(C) Goods-passenger (D) none of the above

109 Whenever points / signals / block instrument is disconnected by SI/ ESM, SM shall ensure that _____ is by SI / ESM. (B)
(A) Reconnection notice (**B) Disconnection notice**
(C) None of the above (D) A & B

110 SM shall inform cabin man / CASM / SWM under exchange of _____ whenever the points / signals / block instrument is disconnected. (C)
(A) TN (B) PC **(C) PN** (D) none of the above

111 When the disconnected signal / point is reconnected, SM shall test _____ . (B)
(A) Twice **(B) Thrice** (C) Once (D) none of the above

112 From the time of disconnection to reconnection, the trains shall be admitted by _____ method. (A)
**(A) Piloting** (B) Taking of reception signals
(C) A & B (D) none of the above

113 A green flag by day and a white light by night moved vertically as high and as low as possible indicate _____. (B)
(A) Train stalling **(B) Train parting**
(C)Shunting (D) none of the above

114 Violently waving a white light horizontally across the body of a person indicates _____. (C)
(A) Proceed (B) go slowly
**(C) Stop dead** (D) none of the above

115 Detonators are known as _____. (A)
**(A) Audible signals** (B) Visible signals
(C) Fixed signals (D) none of the above

116 VTP is painted _____ alternatively. (D)
(A) White & green (B) White & green
(C) Red & green **(D) white & yellow**

117 FSP is painted _____ alternatively. (A)
**(A) White & black** (B) White & green
(C) Red & green (D) white & yellow

118 VTP is located at _____ meters from either side of _____ (A)
**(A) 180-station building** (B) 180-outer most facing points
(C) 270-station building (D) 270-outer most signals

119 FSP is located at ____ meters from _____ signal. (D)
(A) 180-station building (B) 180-outer most facing points
(C) 270-station building **(D) 270-from FSS**

120 Give one example of indicative accident _____. (B)
(A) Loss of human life **(B) Passing signal at ON**
(C) Collision (D) Fir on Train

121 When pre-warning is given about foggy weather by SM in rear, the caution order contains the restriction of ____kmph to be observed after passing ____. (B)
(A) 25 -facing points **(B) 10-outer most signals**
(C) 60-Home (D) 15- Home

122 When LP observes foggy weather in the block section, a speed restriction of _____ kmph in Absolute Block System. (A)
**(A) 60 - 30** (B) 45 – 25 (C) 30 - 45 (D) none of the above

123 Normal life of a detonator is _____. (B)
(A) 10 years (**B) 5 years** (C) 12 years (D) 15 years

124 Testing of detonator shall be done by moving an empty wagon at a speed of _____ kmph. (D)
(A) 10 (B) 12 (C) 15 **(D) 8**

125 After testing the detonator, the life can be increased for one year subject to a maximum of _____ extensions. (C)
(A) 4 (B) 5 **(C) Unlimited after testing every year** (D) 7

126 After rear SLR _____ coaches can be attached excluding one inspection carriage other than Londa-Vasco section. (B)
(A) 3 **(B) 2** (C) 1 (D) 4

127 Fog signalman shall retain at FSP for a period of ____hours on Main line section. (C)
(A) 4 (B) 5 **(C) 3** (D) 10

128 For signal men's assurance will be taken in ___ register by SM (C)
(A) SWR (B) TN **(C) Station Dairy** (D) none of the above

129 The knowledge of the staff that is required to use detonators shall be tested by the testing officials once in _____. (A)
**(A) 3 months** (B) 4 months (C) 5 months (D) 6 months

130 _____ shall prescribe the No. of detonators which shall be kept in stock at a station. (B)
(A) TSR **(B) SWR** (C) TN (D) PN

131 If the night petrol man does not turn up even after _____ minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to _____ kmph. (A)
**(A) 15,40** (B) 15,25 (C) 20,15 (D)30,45

132 "Danger zone" means the zone lying within _____ meters of any live equipment. (A)
**(A) 2.0** (B) 2.5 (C) 1.5 (D) 3.0

133 Dead engine must be manned minimum by ___ rank employee. (B)
(A) LP **(B) ALP** (C) Guard (D) SS

134 Whenever a signal which is detecting a point becomes defective, these points are treated as _____. (B)
(A) Working **(B) defective** (C) clamped (D) padlocked

135 Whenever a signal/point/block instrument is defective, SM shall make an entry in _____. (C)
(A) SWR (B) PN **(C) TSR** (D) TN

136 Pre-warning about defective reception signal is not required when there is_____signal provision or when _____ is provided. (B)
(A) Repeating - clamping **(B) Calling ON - telephone**
(C) Co acting - VHF (D) none of the above

137 Pre-warning, when given it will be given in _____ authority. (A)
**(A) T/369(1)** (B) T/369 3(b) (C) T/512 (D) T/511

138 When Home is defective and pre-warning is given, the train shall admitted by _____. (D)
(A) Taking off Calling ON (B) taking off Shunt signal
(C) Taking of Co acting signal **(D) Piloting**

139 When train is received on Calling-ON, in podanur panel, Calling- ON cancellation takes _____ seconds. (B)
(A) 220 **(B) 240** (C) 150 (D) 120

140 When LP passes starter at "ON" partly and stopped before Advanced starter subsequently line clear is taken. _____will be given (A)
(**A) PLCT & T/369 3(b)** (B) taking off LSS
(C) Taking of Co acting signal (D) none of the above

141 When LP finds a reception stop signal in semaphore area in " OFF" condition without light, he shall observe _____. (C)
(A) Night aspect (B) taking off Shunt signal
**(C) Day aspect** (D) none of the above

142 When Warner / Distant failed in "OFF" position, SM shall arrange to depute one competent railway Servant to show _____from the defective signal. (D)
(A) PLCT (B) taking off Shunt signal
(C) Taking of Co acting signal **(D) PHS**

143 When IBS is defective ____ is the authority to start the train. (A)
**(A) PLCT + T/369 3(b)** (B) taking off LSS
(C) Taking of Co acting signal (D) PHS

144 On DL when LSS is defective _____ is the authority to start a train. (A)
**(A) PLCT** (B) taking off Shunt signal
(C) Taking of Co acting signal (D) none of the above

145 When IBS is at "ON" and the telephone is out of order, LP after waiting for _____ minutes shall proceed at speed of _____ when view is clear / not clear up to next stop signal. (B)
(A) 10-10/8 KMPH **(B) 5-15/8 KMPH**
(C) 25-25/8 KMPH (D) none of the above

146 When LP passes IBS in "OFF" position, _____ indication will appear after which block instrument is to be put in _____ position. (B)
(A) K1-SOL **(B) K2-TOL**
(C) K3-POL (D) none of the above

147 Whenever axle counter of IBS is functioning improperly, SM in rear with the co-operation of SM in advance shall operate ____ buttons to reset axle counter. (A)
(**A) PB2 in co-op PB3** (B) PB4 in co-op PB3
(C) A & B (D) none of the above

148 Wherever IBS is provided, LSS is interlocked with _____and IBS is interlocked with _____. (B)
(A) FSS-LSS **(B) Axle counters-Block section**
(C) Calling on-co acting (D) none of the above

149 Whenever colour light signal is flickering / bobbing and does not pickup a steady aspect at least for ____ time, the signal shall be treated as defective. (A)
**(A) 60 seconds** (B) 120 seconds (C) 180 seconds (D) none of the above

150 Signal warning board is located at a distance of ____meters before a stop signal. (C)
(A) 1500 meters (B) 1200 meters **(C) 1400 meters** (D) none of the above

151 After exploding the detonator, the LP shall proceed cautiously up to a distance of _____ and can pick-up normal speed if there is no obstruction beyond that distance. (B)
(A) 1.2 km **(B) 1.5 km** (C) 2.0 km (D) none of the above

152 The LP and Guard will be given _____No. of LR trips to work in Ghat area. (C)
(A) 3 (B) 2 **(C) 6** (D) none of the above

153 Gate-cum-Distant signal will be located at a distance of _____ meters before the gate. (B)
(A) 120 **(B) 180** (C) 240 (D) none of the above

154 "G" marker on a gate signal is eliminated when there is a _____between Gate stop signal and gate. (B)
(A) Gate **(B) Bridge** (C) Points (D) none of the above

155 When there is no response from Gateman, the SM shall stop the train and issue _____. (A)
**(A) C.O to observe gate rules** (B) PLCT
(C) Written memo (D) none of the above

156 TI/SM/PWI shall test detonators once in _____ (B)
(A) four months **(B) three months** (C) one month (D) none of the above

157 The speed of train on 1 in 81/2 turnout is _____ kmph. (B)
(A) 8 **(B) 10** (C) 15 (D) none of the above

158 The speed of goods train while entering goods terminal yard is restricted to _____ kmph. (B)
(A) 8 **(B) 10** (C) 15 (D) none of the above

159 When a signal is newly erected or shifted, it shall be jointly inspected by ____ . (A)
(A) SI,TI &LI (B) PWI ,TI&SI (C) PWI ,TI&LI (D) none of the above

160 When a signal is newly erected or shifted, caution order shall be given for a period of _____ days. (B)
(A) 8 **(B) 90** (C) 15 (D) none of the above

161 Colour light repeating signal is identified by _____ (C)
(A) A Marker (B) S Marker **(C) illuminated R marker** (D) none

162 In Co-acting signal, the top one is known as main arm and the bottom one is known as _____ arm. (C)
(A) Calling on (B) duplicating **(C) Co acting** (D) none

163 When IB distant fails in "OFF" position _____ is the authority for trains before dispatching. (A)
**(A) PLCT+T/369.3(b)** (B) taking off Shunt signal
(C) Taking of Co acting signal (D) none of the above

164 When IBS is at "ON" the LP shall stop the train at IB and contact _____ by IB Phone. (B)
(A) Front station master **(B) rear station master**
(C) Guard of the train (D) none of the above

165 Inner Distant signal is identified by _____. (A)
**(A) ID Marker** (B) IB marker (C) P marker (D) none

166 Semaphore distant is painted _____ and the end of the arm is _____ . (B)
(A) white-cross tail **(B) yellow- fish tail**
(C) green-rectangular (D) none of the above

167 Station Warner's "OFF" aspect is interlocked with _____ (C)
(A) FSS (B) Shunt signal (**C) LSS** (D) none of the above

168 At station where there is common Home or at station where there are no starters, _____ is required. (A)
**(A) Point indicators** (B) Shunt signals
(C) Co acting signals (D) none of the above

169 At a class "C" station on DL when home signal is defective _____ is the authority to pass at "ON" position. (C)
(A) Calling on signal (B) taking off Shunt signal
**(C) PLCT** (D) none of the above

170 ODC shall be allowed to be attached by a train for transport only with the prior sanction of _____. (A)
**(A) COM/CRS** (B) DRM/DOM (C) DME/DEE (D) none of the above

171 Speed of a class "C" ODC by day shall be _____ kmph. (A)
**(A) 25/15** (B) 45/30 (C) 20/10 (D) 75/15

172 When class "C" ODC is attached by a train _____, _____ and _____ shall proceed as a escort. (B)
(A) SLI,TI,SI **(B) TXR,TI,PWI** (C) PA,LI,STENO (D) none

173 ODC wagon trains shall as far as possible be received on---------line (B)
(A) Loop Line **(B) Main Line** (C) Common Loop (D) none

174 Speed of class „B" ODC on BG shall not exceed _____ kmph. (A)
**(A) 40** (B) 25 (C) 15 (D) none of the above

175 Engine pushing is not permitted without the prior permission of ----- (C)
(A) Guard (B) LI **(C) Rear Station Master** (D) none

176 When engine pushing a train and guard is travelling in brake van, which is leading, the speed shall not exceed _____ kmph, when guard is not travelling in leading vehicle, the speed shall not exceed ____ kmph. (B)
(A) 15/10 **(B) 25/8** (C) 40/25 (D) none of the above

177 When engine pushing is permitted, reception shall be made on single line by ___ (A)
**(A)Taking off signals** (B) Piloting (C)Hand signals (D)None of these

178 When head light is defective after putting marker light the train can go with a restricted speed of _____ kmph. (A)
**(A) 40** (B) 25 (C) 15 (D) none of the above

179 Side lights are dispensed for _____ and _____train. (C)
(A)mail, express (B) passenger, express
**(C)sub-urban, goods** (D)none of the above

180 An engine exclusively deployed for shunting purpose shall put on _____ colour marker lights on both sides. (B)
(A) Yellow **(B) Red** (C) No light (D) none of the above

181 Light engines or coupled light engines shall have _____ (C)
(A) BV (B) CBC **(C) LV Board** (D) none of the above

182 When leading compartment of electric engine is defective and the train is driven from trailing cab by Asst LP, the speed shall not exceed _____ kmph. (B)
(A) 50 **(B) 40** (C) 25 (D) none of the above

183 When leading compartment of electric engine is defective and the train is driven from trailing cab by LP, the speed shall not exceed _____ kmph. (C)
(A) 50 (B) 40 **(C) 15** (D) none of the above

184 In emergency a goods train without brake van or without guard is ordered by _____. (A)
**(A) Sr DOM** (B) COM (C) CEE (D) none of the above

185 Running of goods train without brake van or without guard is strictly prohibited during _____. (B)
(A) TSL **(B) TIC** (C) WINTER (D) none of the above

186 Goods train without guard shall have last _____ brake cylinders in working condition. (C)
(A) 5 (B) 7 **(C) 12** (D) none of the above

187 Running of train without guard is not permitted in ___ sections of Hubli division. (B)
(A) 1 in 100 or steeper gradient **(B) Ghat**
(C) Pilot (D) handicapped

188 When hot axle is reported by rear SM that train shall preferably be admitted on _____ line. (B)
(A) Loop line **(B) Main line** (C) Common Loop (D) none

189 _____ Number of damaged vehicles are permitted to be attached in rear of Brake van during _____ only. (C)
(A) 2- night (B) 1- night **(C) 1-day** (D) none

190 Fresh BPC is required whenever _____ No. and more vehicles are attached or detached. (C)
(A) 25 FWU (B)15 FWU **(C) 10 FWU** (D) none of the above

191 When non-CC rake train is stabled for more than _____ hours fresh BPC is required. (B)
(A) 52 **(B) 24** (C) 12 (D) none of the above

192 A goods train having 56 wagons, the BP pressure in engine shall be _____ and in BV _____. (A)
**(A) 5.0 Kg./cm$^2$-4.8 kg/cm$^2$** (B) 5.2 Kg./cm$^2$-5.0 kg/cm$^2$
(C) 5.3 Kg./cm$^2$-4.6 kg/cm$^2$ (D) none of the above

193 FP pressure in loco shall be _____ and in BV -------- (B)
(A) 6.2 kg/cm$^2$-5.7 kg/cm$^2$ **(B) 6.0 kg/cm$^2$-5.8 kg/cm$^2$**
(C) 6.1 kg/cm$^2$-5.0 kg/cm$^2$ (D) none of the above

194 A goods train having 58 wagons. The BP pressure in loco shall be _____ and in BV _____. (A)
**(A) 5.0 kg/cm$^2$-4.7 kg/cm$^2$** (B) 5.2 kg/cm$^2$-5.0 kg/cm$^2$
(C) 5.2 kg/cm$^2$-5.1 kg/cm$^2$ (D) none of the above

195 All cut off angle cocks must be in _____ position except front side of loco and rear side of LV to ensure _____. (B)
(A) closed-open **(B) open-closed** (C) isolate-open (D) none of the above

196 Empty / Load handle shall be kept in load position when the gross load is above _____ tones. (C)
(A) 45.5 (B) 44.5 **(C) 42.5** (D) none of the above

197 DV isolating handle in vertical position indicates DV is in ____ position. (A)
(**A) Working** (B) isolate (C) running (D) none of the above

198 DV isolating handle in horizontal position indicates DV is in ____ position. (B)
(A) Working **(B) isolate** (C) running (D) none of the above

199 Reduction in BP pressure causes _____. (C)
(A) Brake binding (B) wheel skidding **(C) Brake application** (D) none of the above

200 Creation of BP pressure causes _____. (A)
**(A) Brake release** (B) wheel skidding (C) Brake binding (D) none of the above

201 All _____ trains shall have Twin Pipe working. (B)
(A) Goods **(B) Coaching** (C) siding (D) none of the above

202 Within station limits where gradient is steeper than 1 in 600, to detach the loco of goods train without BV____ No. of wagons hand brakes are to be put ON. (B)
(A)6 **(B) 12** (C) 18 (D) none of the above

203 To detach loco of a goods train having BOX N / BCN / BRH, etc., minimum _____ no. of vehicles hand brake are to be applied from both ends excluding BV. (B)
(A) 15 **(B) 10** (C) 5 (D) 12

204 When SM / Station staff does not exchange “all-right” signals, the LP shall give _____ engine whistle code. (C)
(A) Two long (B) two long, one short **(C) Two short** (D) none of the above

205 Even though FSS is in OFF position, still if a LP of an incoming train stops at FSS and gives - 0 - 0 engine whistle it indicates _____. (B)
(A) Train stalled **(B) Train arrived incomplete**
(C) Train running late (D) none of the above

206 Engine whistle code 0 0 - indicates _____. (C)
(A) Train arrived incomplete (B) Train stalled
**(C) Less vacuum/Air pressure** (D) none of the above

207 When engine whistle fails on run, after clearing block section, the loco shall be attended or it shall be _____. (B)
(A) Worked further **(B) replaced**
(C) Removed (D) none of the above

208 AC SLR guard shall show all right signal to SM by _____ (A)
**(A) Putting on /off side lights** (B) no exchange
(C) Showing green light (D) none of the above

209 In token less section SM shall arrange points man to show all right signals for a run through train from _____side. (B)
(A) Station building side **(B) off side**
(C) No exchange (D) none of the above

210 When a train is held up at FSS for more than _____ minutes, the LP shall depute Asst LP to go to station. (D)
(A) 10 (B) 12 (C) 15 **(D) 5**

211 While at a station, the LP is to obey _____ orders. (C)
(A) CLI (B) SM **(C) GUARD+SM** (D) none of the above

212 Normally, the material train shall be ordered by _____ time only. (B)
(A) Night **(B) Day** (C) summer (D) none of the above

213 Material train shall be ordered to work with the permission of -------- (C)
(A) DME (B) DSO **(C) DRM** (D) none of the above

214 The BPC of a material train with UIC Bogie, airbrake stock is valid for _____ days subject to examination of the train by TXR once in _____ days. (A)
**(A)30-15** (B) 15-5 (C) 25-10 (D) none of the above

215 The required brake power of material train shall not be less than ---------- (C)
(A) 100% (B) 80% **C) 90%** (D) none of the above

216 The required brake power of passenger carrying train shall be _____ and for a CC rake goods train shall be _____ at originating station. (A)
**(A) 100%-100%** (B)85%-100% (C) 90%-50% (D) 100% - 85%

217 Whenever BPC is invalid or while clearing a stabled load, before starting_____ check shall be conducted for which _____ time is given for one four wheeler. (C)
(A) Brake power-60 seconds (B) GDR- 150 Seconds
**(C) GDR-30 seconds** (D) none of the above

218 While stabling a material train at a station, the responsibility lies with the_____ (B)
(A) LP **(B) SM/Guard** (C)Points man (D) none of the above

219 To dispatch the material train for working in the block section ATP under the system of working and _____ should be given. (A)
**(A) Memo counter signed by Guard** (B) Memo from PWI
(C) Memo from SS (D) none of the above

220 Dividing of material train in the block section where the gradient is steeper than _____ is prohibited. (C)
(A) 1 IN 150 (B) 1 IN 200 **(C) 1 IN 100** (D) none

221 The maximum speed of TTM is _____ kmph. (B)
(A) 15 **(B) 40** (C) 25 (D) none of the above

222 TTM is permitted to work in the block section only during _____ (C)
(A) Day (B) Night **(C) Line block** (D) none of the above

223 NIL caution order form no. is _____. (A)
**(A) T/A 409** (B) T/409 (C) T/512 (D) none of the above

224 Caution order form no. is _____. (A)
**(A) T/ 409** (B) T/409 (C) T/512 (D) none of the above

225 All existing caution order shall be brought forwarded by SM on every _____ (B)
(A) Night **(B) Day** (C) mid night (D) none of the above

226 On completion of caution order book, it shall be preserved for a period of ___ (A)
**(A) 12 months** (B) 15 months (C) 6 months (D) 18 months

227 As per G&SR control of shunting is done through ---------,-----,------ and---------. (C)
(A) detonating-flare signals (B) visible signals
**(C)Fixed signals, hand signals, verbal instructions** (D) none of the above

228 For shunting purpose _____, _____ and _____ signals are not to be used. (B)
(A) starter, Warner, distant **(B) outer, home,LSS**
(C) Calling on, co-acting, distant (D) none of the above

229 While shunting wagons containing explosives, the supervision for shunting shall be done by _____. (B)
(A) Guard **(B) SS** (C) Points man (D) none of the above

230 While backing a full train from one line to another via main line the shunting supervision is done by _____. (B)
(A) Guard **(B) SS** (C) Points man (D) none of the above

231 Shunting speed of explosive and POL products shall be_____ kmph. (C)
(A) 10 (B) 5 **(C) 8** (D) none of the above

232 For the purpose of shunting the points, which are not protected by signals, they must be locked by _____ or _____ method. (B)
(A) Electrical, electronic **(B) padlocking, clamping**
(C) mechanical, electrical (D) none of the above

233 While performing shunting with passenger running trains, the shunting engine or train engine with or without slip coaches, before coming on to the formation it should be stopped _____ meters before the formation. (B)
(A) 45 **(B) 20** (C) 45 (D) 30

234 To receive a train on to an obstructed line, the LP shall be given_____ Authority where there is no calling ON signal and signal post telephone. (B)
(A) T/369.3(b) **(B) T/509** (C) T/512 (D) T/511

235 While received a train on obstructed line, SM shall arrange to post one competent Railway servant to show _____ hand signal from _____ meters before the obstruction. (C)
(A) Red, 30 (B) Green, 35 **(C) Stop, 45** (D) none of the above

236 To dispatch a train from un-signalled line where tangible authority is not given as ATP, _____ authority should be given. (A)
**(A) T/511+PHS+ATP** (B) T/512 (C) T/409 (D) none of the above

237 To start a train from a station having common starter signal, in addition to ATP _____ authority should be given. (A)
**(A) T/512** (B) T/511 (C) T/409 (D) T/509

238 _____ Gradient is considered as dangerous for shunting roller bearing wagon and _____gradient for non roller bearing wagons. (A)
**(A) 1 in 400-1 in 260** (B) 1 in 100-1 in 150
(C) 1 in 300- 1 in 450 (D) none of the above

239 When 10 BOX wagons are shunted having Transition Couplers, the shunting impact speed should not exceed _____ kmph. (B)
(A) 10-15 **(B) 2-3** (C) 20-25 (D) none of the above

240 Maximum Hand shunting speed is _____ kmph. (C)
(A) 10 (B) 15 **(C) 5** (D) none of the above

241 When “Lurch” is reported by LP, the SM shall issue caution order restricting the speed to _____ kmph. (C)
(A) 10 (B) 15 **(C) 8** (D) none of the above

242 When “Lurch” is reported on DL by LP, SM shall give caution order for adjacent line trains to proceed with _____. (A)
**(A) Special caution order** (B) memo C) PWI (D) none of the above

243 Rail fracture of less than 30 mm, the speed of first train shall be ____ kmph, the speed of second and subsequent trains shall be _____ kmph. (A)
**(A) 10-15** (B) 25-8 (C) 15-40 (D) none of the above

244 Rail fracture of more than 30 mm or multiple fractures, certification shall be given by _____ and above rank. (C)
(A) DEN (B) AEN **(C) SSE/P.Way** (D) none of the above

245 During TIC on DL _____ is the ATP authorising the LP to proceed with a restricted speed of _____ kmph. (A)
**(A) T/C 602-25/10** (B) T/D 609-15/8 (C) T/A 611-10/8 (D) none of the above

246 When enquiry is made for more than one train _____ authorities are required for the light engine which is going to open communication. (B)
(A) T/C 603+T/D611 **(B) T/B 602+T/E 602** (C) T/A 602+T/G 645 (D) none of the above

247 When trains are dealt on T/C 602, the time interval between two trains shall be _____ minutes. (B)
(A) 60 **(B) 30** (C) 45 (D) none of the above

248 During TIC on SL / DL and TSL working except _____ signal, all other signals can be taken OFF. (C)
(A) FSS (B) Starter **(C) LSS** (D) none of the above

249 After opening the communication, the train speed shall be _____. (A)
**(A) Booked speed** (B) MPS (C) Cautious (D) none of the above

250 After opening communication _____ is ATP for the light engine to come back. (A)
**(A)T/G 602/T/H 602** (B)T/A602/T/I 609 (C)T/H 602/T/H 611 (D) none of the above

251 If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _____ kmph. (A)
**(A) 25/10** (B) 15/8 (C) 10/5 (D) none of the above

252 After block telephone, _____ telephone is the authorized means of communication in absolute block system. (B)
(A) VHF **(B) Station to station fixed telephone**
(C) Walkie-Talkie (D) Control

253 Light engine, which is going for opening communication, shall proceed with a restricted speed of _____ kmph. (B)
(A) 25/15 **(B) 15/10** (C) 20/8 (D) none of the above

254 When there is even flow of trains, enquiry and reply messages are sent through _____. (A)
**(A) Train LPs/guards** (B) SS (C) Points man (D) none of the above

255 On T/E 602 _____ number of trains enquiry can be made. (A)
**(A) More than one** (B) less than one (C) One (D) none of the above

256 Form No. of UP/DN CLCT is _____. (A)
**(A) T/G 602/T/H 602** (B) T/A602/T/I 609
(C) T/H 602/T/H 611 (D) none of the above

257 When motor trolley / tower car is sent for opening communication, (C)
it shall be accompanied by _____.
(A) PWI/TI (B) SSE.PWI/SI **(C) Guard/ASM** (D) none of the above

258 When goods train is dispatched on T/J 602 the speed shall not exceed ___kmph. (C)
(A) 25/8 (B) 45/25 **(C) 15/8** (D) none of the above

259 During TSL working, the speed of first train shall be ____ kmph. (A)
**(A) 25** (B) 50 (C) 15 (D) none of the above

260 During TSL working the speed of second and subsequent trains ____ shall be. (A)
**(A) Booked speed** (B) 25 KMPH (C) 15 KMPH (D) 45 KMPH

261 _____ is the authority for trains working on TSL working. (B)
(A) T/A 602 **(B) T/D 602** (C) T/C 602 (D) T/B 602

262 During TSL working the block instrument shall be kept and locked in ___ position. (A)
**(A) TOL** (B) SOL (C) POL (D) none of the above

263 If LP enters block section without authority and subsequently sends his Asst LP (B)
with a memo to SM in rear / SM in advance that SM shall give _____ and _____ .
(A) Signals, PLCT **(B) PLCT, Caution order**
(C) Memo, Signals (D) none of the above

264 When explosion sound is heard by SM and location is not known and light (B)
engine could not be sent for testing purpose, the whole train shall be allowed
to go with a restricted speed of _____ kmph.
(A) 15 **(B) 10** (C) 25 (D) 40

265 In case of fire accident in a passenger train, the first objective to (C)
be achieved is _____.
(A) Clear the section (B) detach the vehicle
**(C) Safety of the passengers** (D) ask for relief

266 The light engine which is coming on T/609 to pick up the second portion shall (C)
come with a restricted speed of _____ kmph.
(A) 40 (B) 15 **(C) 25** (D) 50

267 One important essential required for automatic block system is that (B)
it shall be provided with continuous _____or _____.
(A) track, signals **(B) track circuit, axle counters**
(C) points, signals (D) none of the above

268 The line between the block stations, when required, be divided into series (A)
of _____ sections.
**(A) Signalling** (B) Track (C) Continuous (D) none of the above

269 Fully automatic stop signal is identified by _____ board. (C)
(A) S- marker (B)P-marker **(C) A-Marker** (D) Illuminated A-marker

270 Semi-automatic stop signal is identified by _____ light. (D)
(A) S- marker (B)P-marker (C) A-Marker **(D) Illuminated A-Marker**

271 All Guards, LPs, Asst LPs, Motor men who are required to work in automatic (C)
block system shall undergo one day intensive training a certificate shall be given
once in _____months.
A) 12 (B) 5 **(C) 6** (D) 36

272 When LPs finds an automatic stop signal at ON, after Stopping for ___ minutes (A)
Day / Night shall proceed with a restricted speed of _____ kmph up to next
stop signal or up to the obstruction.
**(A) 1/2-10** (B) 2/4-15/8 (C) 5/10-12/8 (D) 3/4-25/10

273 The automatic stop signal shall not assume OFF aspect unless the line is clear not only up to the next automatic signal but also for an adequate distance of not less than _____ meters. (C)
(A) 240 (B) 150 **(C) 120** (D) 180

274 After passing an automatic signal at ON the LP of the following train hauled by any locomotive shall ensure that a minimum distance of _____ meters is maintained between his train and preceding train. (B)
(A) 240 **(B) 150** (C) 120 (D)180

275 The minimum equipment of fixed signals in automatic system on SL shall be _____ and _____ signals. (B)
(A) Distant-Home **(B) Automatic-Semi automatic**
(C) home-LSS (D) Outer- Home

276 The gate signal in automatic system is identified by _____ (D)
(A) A-Marker (B) P-Marker
(C) G-Marker **(D) illuminated A-Marker & G-Marker**

277 When LSS failed on SL automatic block system _____ is the ATP for the train and the first train, which shall go with a restricted speed of _____ kmph. (A)
**(A) PLCT, 25** (B) T/602, 15 (C)T/A602, 45 (D) none of the above

278 In automatic block system single line, when LSS fails, _____ authority is given to the Loco Pilot. (A)
**(A) PLCT & T/A 912** (B) T/D-912 (C) T/C912 (D) T/P 912

279 During prolonged failed of signals on DL the authority given in automatic signalling is ___ which authorizes the LP to go a restricted speed of _____ kmph. (B)
(A) T/A912,30 **(B) T/D912, 25** (C)T/C912, 45 (D) T/B912, 60

280 When signals and communication fails on DL, the authority given to the LP is ___. (A)
**(A) T/B912** (B) T/C912 (C) T/D912 (D) T/A912

281 The time interval between two trains during signal and communication failure on DL shall be _____ minutes. (C)
(A) 30 (B) 25 **(C) 15** (D) 45

282 The light engine, which is going to open communication, shall proceed with a restricted speed of _____ kmph. (D)
(A) 12-15 (B) 10-8 (C) 15-20 **(D) 15-10**

283 During TSL working in automatic section the first train proceeding on right line when signal and communication are working shall proceed on ____ authorities. (B)
(A) T/D 912 **(B) PLCT+T/A912** (C) T/C912 (D) T/B 912

284 During TSL working when signals and communication are working the second and sub-sequent train proceeding on right line shall proceed on _____. (C)
(A) Cautiously (B) whistling **(C)signal aspects** (D) written memo

285 All trains from wrong line during TSL working shall proceed on ____ as ATP. (D)
(A) Written memo (B) caution order (C) cautiously **(D) PLCT**

286 When train meets with an accident in automatic block system on DL and the adjacent line is obstructed, the adjacent line shall be protected as per _____ rule. (D)
(A) GR 6.06 (B) GR6.12 (C) GR6.09 (D) GR 6.03

287 In Automatic block system when the train is unable to proceed further due to accident or obstructed or due to the failure of loco, the Guard shall protect the train in rear by placing one detonator at _____ meters and two detonators at _____ meters from the point of obstruction. (A)
**(A) 90, 180** (B) 120, 150 (C) 150, 300 (D)120, 180

288 To stop of a train out of course in automatic block system __ no. of detonators are placed at ___ meters from the end of platform in direction of the train. (B)
(A) 3, 120 **(B) 2, 180** (C) 1, 120 (D) 4, 600

289 In automatic block system to dispatch a relief loco / train into the occupied block section _____ is given as the ATP for the relief loco / train. (C)
(A) T/A 912 (B) T/B 912 **(C) T/C 912** (D) T/D 912

290 In automatic block system Relief loco / train shall proceed with a restricted speed of ____ kmph. (D)
(A) 25/15 (B) 45/25 (C) 60/30 **(D)15/10**

291 Secunderabad, Kachiguda, Falaknuma, Moula Ali, Vijayawada and Krishna Canal stations are known as stations. (C)
(A) Flag (B) Non-Block **(C) Reporting** (D) Notice

292 Engineering indicators are (1) _____ (2) _____ (3)_____ (4) _____. (A)
**(A) Caution Indicators, Speed Indicators, Stop Indicators, Termination Indicators**
(B) Coasting Boards, Warning Boards, Whistle boards, LV boards
(C) A&B
(D) none of the above

293 Caution indicator is located at _____ meters before the spot on BG. (B)
(A) 1300 **(B) 1200** (C)1500 (D)2000

294 Stop indicator is located ____ meters before the stop dead and proceed speed restriction. (C)
(A) 50 (B) 20 **(C) 30** (D) 60

295 After stopping at the stop indicator, LP shall sign in the ER-7 book and proceed with _____ kmph. (C)
(A) 15 (B) 20 **(C) 10** (D) 25

296 "W/L" board before level crossing shall be provided at distance of _____ metres. (A)
**(A) 600** (B) 1200 (C) 1300 (D)1600

297 When water over tops the rail _____ shall certify by walking over and probing that the track is safe and allow the train to go at a speed not exceeding ___Kmph. (A)
**(A) PWI, 8** (B) DEN, 15 (C) SrDEN, 20 (D) Sr DOM, 30

298 Neutral section lies between _____ (C)
(A) Two Block Sections (B) Two Station Sections
**(C) Two Sub-Stations** (D) Two Junctions hall

299 The speed of the train while passing through Neutral Section not to be less than _____ kmph. (D)
(A) 45 (B)20 (C) 60 **(D) 30**

# विभागीय परीक्षाओं के लिए राजभाषा प्रश्न बैंक

**Rajbhasha Question Bank For Departmental Examinations**

| | |
|---|---|
| 1. | What is the Official Language of Union of India? (A)<br>**a)Hindi in Devnagari Script** b) Hindi in Sanskrit Script c)Hindi d) None of the above |
| 2. | On which date Part XVII of the Constitution was passed in Parliament? (B)<br>a) 19.09.1947 **b) 14.09.1949** c) 14.07.1949 d) 19.07.1947 |
| 3. | When was Official Language Act 1963 passed? (A)<br>**a)10.05.1963** b) 10.05.1967 c) 15.05.1963 d) 15.05.1967 |
| 4. | When was Official Language Act 1963 amended ? (A)<br>**a)1967** b)1963 c) 1947 d)1965 |
| 5. | When is "Hindi Day" celebrated every year? (D)<br>a) September 04 b) September 24 c) November 14 th **d) ) September 14** |
| 6. | According to Official Language Rules, under which region Andaman & Nicobar Islands come (A)<br>**a)Region A** b) Region C c) Region B d) None of above |
| 7. | According to Official Language Rules ,Which state comes under Region "A" ? (C)<br>a) Maharashtra b)Punjab **c) Harayana** d) Arunachala Pradesh |
| 8. | What is the Official Language of Arunachal Pradesh? (C)<br>a)Bodo b) Hindi **c) English** d) Sindhi |
| 9. | The official Languages act 1963, section 3 take effects from ? (B)<br>a) 26 January, 1963 **b) 26 January, 1965** c) 25 January, 1963 d) 25 January 1965 |
| 10. | In which part of the Constitution are the Articles 343-351 that give information about Official Language available ? (A)<br>**a)Part XVII** b) Part XVIII c) Part XIV d) Part XVI |
| 11. | Maximum how many Artists can participate in Hindi Drama Competitions? (D)<br>a) 5 Artists b) 10 Artists c) 20 Artists **d) 15 Artists** |
| 12. | How many inspections in a month are mandatory for Rajbhasha Adhikari of Railways? (A)<br>**a)One** b) Three c) Two d) Five |
| 13. | According to Official Language Rules which state coming under 'B' region? (A)<br>**a) Maharashtra** b) Jammu & Kashmir c) Jharkhand d) Nagaland |
| 14. | At present how many languages are enlisted in the Eighth Schedule of the constitution? (C)<br>a)18 b) 20 **c) 22** d) 21 |
| 15. | In which article is the provision regarding OL policy available in Part V of the constitution? (B)<br>a)Article -210 **b) Article-120** c) Article -344 d) Article – 343 |
| 16. | In which order Name, Designation and Sign Boards are to be exhibited? (D)<br>a)Trilingual (Hindi, Regional & English)<br>b)Trilingual (English, Regional & Hindi)<br>c)Trilingual (Regional, English & Hindi)<br>**d)Trilingual (Regional, Hindi & English)** |
| 17. | When was the Official Language Rules passed? (B)<br>a)1967 **b)1976** c) 1963 d)1965 |
| 18. | How many articles are there in Part XVII of the Constitution? (D)<br>a)7 b)6 c)8 **d)9** |
| 19. | In compliance of article 344 when was the Official Language Commission formed? (B)<br>a)1950 **b) 1955** c) 1956 d)1949 |

| | |
|---|---|
| 20. | Who was the First Chairman of the Official Language Commission? (B)<br>a) Sri G.B. Pant **b)Sri B.G. Kher** c) Sri Lalith Narayan Mishra d) Sri Nanda Kumar |
| 21. | Who was the First Chairman of the committee which was formed on the recommendation of the Official Language commission? (A)<br>**a) Sri G.B. Pant** b)Sri B.G. Kher c) Sri Lalith Narayan Mishra d) Sri Nanda Kumar |
| 22 | As per the Constitution, who is translating the statutory rules, regulations and orders? (D)<br>a)Home Ministry b) Finance Ministry c) Prime Ministry **d) Law Ministry** |
| 23. | Which Official Language Rule mentions about the Proficiency of Hindi of the Officer/Employee (A)<br>**a)Rule-09 of Official Language Rule 1976**<br>b)Rule-06 of Official Language Rule 1976<br>c)Rule-10 of Official Language Rule 1976<br>d)Rule-08 of Official Language Rule 1976 |
| 24. | Which Article comes under Part VI ? (A)<br>**a)Article -210** b) Article-120 c) Article -344 d) Article – 343 |
| 25. | Who chaired the first Railway Hindi Salahkar Samiti constituted in 1973 (C)<br>a) Sri G.B. Pant b)Sri B.G. Kher **c) Sri Lalith Narayan Mishra** d) Sri Nanda Kumar |
| 26. | Communication from central govt office to a state or Union territory in region C or to any office Or person in such state shall be in (A)<br>**a)English** b)Hindi c)Hindi and English d)Hindi or English |
| 27. | In which year the Hindi translation of Railway Budget was prepared by the Railway Minister (C)<br>a)1950 b) 1955 **c) 1956** d)1949 |
| 28. | In which year Hindi (Parliament) section was established in Railway Board? (D)<br>a)1950 b) 1955 c) 1956 **d)1960** |
| 29. | What are the States/Union territories that comes under Region "A" ? (D)<br>a) Bihar b)Punjab c) Chhattisgarh **d) a&c** |
| 30. | What are the States/Union territories that come under Region "C" ? (A)<br>**a) Sikkim** b) Daman & diu c) Andaman & Nicobar d) Union Territory of Chandigarh |
| 31 | Article 120 related (A)<br>**a)Language to be used in Parliament**<br>b)Language to be used in the Legislature<br>c)Official Language of the union<br>d)Official languages of the state |
| 32 | Article 210 related (B)<br>a)Language to be used in Parliament<br>**b)Language to be used in the Legislature**<br>c)Official Language of the union<br>d) Languages to be used in supreme court and in the high courts and for acts bills etc |
| 33. | What is the expansion for OLIC used by Dept. of Official Language? (B)<br>a)Official Language Improvement Committee<br>**b)Official Language Implementation Committee**<br>c)Official Language Implement Committee<br>d)Official Language Implementation Commission |
| 34. | How many Hindi courses are prescribed for Central Govt. Employees? (C) |

| | |
|---|---|
| | a)2 b)3 **c)4** d)5 |
| 35. | Which is the elementary Hindi course prescribed for Central Govt. Employee (B)<br>a)Praveen **b)Prabodh** c)Parangat d) Pragya |
| 36. | Who is the Chairman of Central Hindi Committee ? (C)<br>a)Home minister b) Finance Minister **c) Prime Minister** d) Diffence minister |
| 37. | When was the present Parliamentary Committee on Official Language constituted ? (B)<br>a)1967 **b)1976** c) 1968 d)1949 |
| 38. | How many members are there in the Committee of Parliamentary on Official Language? (C)<br>a) 33 b) 25 **c) 30** d) 20 |
| 39. | At present, how many Sub-Committees are there in the Parliamentary Committee on Official Language? (C)<br>a)6 b)5 **c)3** d)2 |
| 40 | Article 344 related to (D)<br>a)Directives for development of Hindi language<br>b)Languages to used in Parliament<br>c)Languages to be used in supreme court and in the high courts and for acts bills etc<br>**d)Commission and Committee of parliament on official Languages** |
| 41. | Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities? (C)<br>a)DRM b)ADRM **c) Senior most Central Govt. Officer of the city.**<br>d) Division Raja bhasha adhikari |
| 42. | What is the periodicity of the meeting of Town Official Language Implementation Committee? (A)<br>**a) Once in 6 months** b) Once in 12 months c) Twice in 6 months d) 3 times in 12 months |
| 43. | Who prepares the Annual Programme on Official Language? (D)<br>a)Ministry of Finance Affairs.<br>b)Ministry of Human Resource<br>c) Ministry of Urban devlopment<br>**d)None of the above**. |
| 44. | What are the Hindi courses prescribed for Central Govt. Employees? (B)<br>a)Prabodh, Praveen& Pragya<br>**b)Prabodh, Praveen& Pragya & Parangat**<br>c)Prabodh, Pragya & Parangat<br>d)Prabodh, Praveen, & Parangat |
| 45. | Which is the final Hindi course prescribed for Clerical cadre employees of Central Govt.? (C)<br>a)Praveen b)Prabodh **c)Parangat** d) Pragya |
| 46. | What are the training facilities available to a Central Govt. employee to get trained in the Hindi courses? (C)<br>a) Intensive, Correspondence and Private b) Regular, Intensive and Private<br>**c) Regular, Intensive, Correspondence and Private** d) Regular, Intensive, Correspondence |
| 47. | How many times the Regular Hindi exams are conducted in a year ? (A)<br>**a)2** b)3 c)4 d)1 |
| 48. | In which months Regular Hindi examinations are conducted? (A)<br>**a) May and November** b)June and December c)June and august d)July and November |
| 49 | When was first time 'World Hindi Day' is observed? (D)<br>a)10 November 2006 b)10 January, 2016 c) 10 January, 2005 **d) 10 January, 2006** |

| | |
|---|---|
| 50. | Name the newly introduced course in Hindi by Hindi Teaching Scheme (C)<br>a)Praveen b)Prabodh **c)Parangat** d)None of the above |
| 51. | Who are all the employees classified under Category 'A' ? (C)<br>a)Those employees whose mother tongue is Urdu or Hindustani or its dialect<br>b)Those employees whose mother tongue is english or Hindustani or its dialect<br>**c)Those employees whose mother tongue is Hindi or Hindustani or its dialect**<br>d) Those employees whose mother tongue is Urdu, Punjabi, Kashmiri, Pusto, Sindhi or other allied languages |
| 52 | Section 3 of Official Language Act 1963 came into force on (A)<br>**(a) 26 January 1965** (b) 28 February 1965 (c) 26 January 1966 (d) 26 January 1964 |
| 53 | Which of the following is the correct English word for मंडल रेल प्रबंधक (B)<br>a)GM **b) DRM** c)ADRM d) AGM |
| 54. | Which Official Language Rule mentions about the Working knowledge of the Officer/Employee ? (C)<br>**a)** Rule-09 of Official Language Rule 1976 **c) Rule-10 of Official Language Rule 1976**<br>**b)** Rule-11 of Official Language Rule 1976 d)Rule-12 of Official Language Rule 1976 |
| 55. | From which course a category 'C' employee required to be trained (A)<br>**a)Praveen** b)Prabodh c)Parangat d)None of the above |
| 56. | From which course a category 'D' employee required to be trained? (B)<br>a)Praveen **b)Prabodh** c)Parangat d) Pragya |
| 57. | What is the Lumpsum Award for passing Pragya? (C)<br>a)2500 b)2600 **c)2400** d)None of the above |
| 58. | Which of the following is the correct English word for महाप्रबंधक (A)<br>**a)GM** b)DRM c)AGM d) ADRM |
| 59. | In which order the forms used by Public are to be prepared? (D)<br>a)Trilingual Form (1.Regional Language 2.English 3.Hindi)<br>b)Trilingual Form (1.English 2.Regional Language 2.Hindi)<br>c)Trilingual Form (1.Hindi 2.English 3. Regional Language )<br>**d)Trilingual Form (1.Regional Language 2.Hindi 3.English)** |
| 60. | In which order Rubber Stamps are to be prepared? (B)<br>a) Bilingual from-one line English and one line Hindi<br>**b) Bilingual from-one line Hindi and one line English**<br>c) Regional language<br>d) Regional Language, Hindi, English |
| 61. | Which Foreign Language included in the Eighth Schedule? (C)<br>a) Urdu b)Punjabi **c)Nepali** d) None of these |
| 62. | Who is the Chairman of the Divisional Official Language Implementation Committee? (A)<br>**A)DRM** b)ADRM c)Nominated officer by DRM d) Division Raja bhasha adhakari |
| 63. | Which Ministry/Office is conducting the exams for the Central Government employees? (C)<br>a)Hindi Teaching Scheme under Ministry of Finance Affairs.<br>b)Hindi Teaching Scheme under Ministry of Human resource<br>**c)Hindi Teaching Scheme under Ministry of Home Affairs**<br>d)Hindi Teaching Scheme under Ministry of Culture . |
| 64. | Who is the Chairman of Town Official Language Implementation Committee (Central Govt. offices)/Vijayawada? (A)<br>**a)DRM** b)ADRM c)Nominated officer by DRM d) Division Rajabhasha adhakari |

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| 65. | In which order are the Station announcements made? (D)<br>a)Trilingual (Hindi, Regional & English) b)Trilingual (English, Regional & Hindi)<br>c)Trilingual (Regional, English & Hindi) **d)Trilingual (Regional, Hindi & English)** |
| 66. | How the Panel Board of a train has to be displayed? (D)<br>a)Trilingual (Hindi, Regional & English) c)Trilingual (Regional, Hindi)<br>b)Trilingual (English, Regional & Hindi) **d) None of the above** |
| 67. | Who are eligible to undergo training in Hindi Conversation course ? (A)<br>**a) All the open line staff (including Class–IV) who come in contact with public directly.**<br>b) All the open line staff<br>c) Running staff<br>d) Office staff |
| 68. | Why training in Hindi is imparted to Central Government Officers/Employees ? (B)<br>a) By which they can speak with officers<br>**b) By which they can do their day-to-day work in Hindi.**<br>b) By which they can speak with colleague<br>d)None of the above |
| 69. | What is the duration for Hindi Conversation course in Hrs ? (D)<br>a)20 b)10 c)40 **d)30** |
| 70. | Mention the name of Rajbhasha Padak awarded to Sr.Administrative Grade or Higher Officials? (A)<br>**a)Rail Mantri Rajbhasha Rajat Padak** b)Lal Bahadur Shastri Award<br>c)Maithili Sharan Gupta Rajat Padak d) Premchand Award |
| 71. | According to Official Language Rules ,Which State comes under Region "B" ? (D)<br>a) Haryana b)Rajasthan c) Jharkhand **d) None of the above** |
| 72. | Mention the name of the Award to be given for writing story/novel writing in Hindi by Railway Board. (D)<br>a)Rail Mantri Rajbhasha Rajat Padak b)Lal Bahadur Shastri Award<br>c)Maithili Sharan Gupta Award **d) Premchand Award** |
| 73. | Mention the name of the Award to be given for writing the book of Hindi poems, by the Railway Board. (C)<br>a)Rail Mantri Rajbhasha Rajat Padak<br>b)Lal Bahadur Shastri Award<br>**c)Maithili Sharan Gupta Award**<br>d) Premchand Award |
| 74. | ¨What is the Cash Award given under Kamalapati Tripathi Rajbhasha Swarna Padak ? (A)<br>**a) ₹ 10,000** b) ₹ 1000 c) ₹ 100000 d) ₹ 1000000 |
| 75. | What is the main duty of the Committee of Parliament on Official Language? (A)<br>**a)To review the progressive use of Hindi**<br>b)To review the progressive use of Hindi and English<br>c)To review the progressive use of Hindi and state official languages<br>d)To review the progressive use of English |
| 76. | World “Hindi Day" celebrated every year on ? (B)<br>a) 11 th January **b) 10 th January** c) 12 th January d) 14 th September |
| 77. | What are the four languages that were added to the list of 18 languages of the Eighth Schedule? (D)<br>a)Bodo, Dogri, Maithili & Nepali, added.<br>b)Bodo, Sindhi , Maithili & Santhali were added. |

| | |
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| | c) Kashmiri, Dogri, Maithili & Santhali were added.<br>**d) Bodo, Dogri, Maithili & Santhali were added** |
| 78 | Nepali Language is the State Language of which state? (A)<br>**a) Sikkim** b) Bihar c) Chhatisgarh d) Himachal Pradesh |
| 79 | The Committee on Official Language consist of _____ members from Lok Sabha (D)<br>a) 15 b) 25 c) 10 **d) None of these** |
| 80 | The report of committee on official language is submitted to the (B)<br>a) Speaker of Lok Sabha **b) President** c) Vice President d) Chief Justice of India |
| 81 | The Official Language Rules 1976, is applicable on entire countries except one State? Which is that State? (B)<br>a)Kerala **b)Tamilnadu** c)Tripura d)Andhara Pradesh |
| 82 | What is the Lump sum Award for passing Pragya ? (C)<br>a)2600 b)2200 **c)2400** d)2000 |
| 83 | Article 351 related to (A)<br>**a)Directives for development of Hindi language**<br>b)Languages to used in Parliament<br>c)Languages to be used in supreme court and in the high courts and for acts bills etc<br>d)Commission and Committee of parliament on official Languages |
| 84 | Article 348 related to (C)<br>a)Directives for development of Hindi language<br>b)Languages to used in Parliament<br>**c)Languages to be used in supreme court and in the high courts and for acts bills etc**<br>d)Commission and Committee of parliament on official Languages |
| 85 | According to Official Language Rules ,Which States comes under Region "C" ? (C)<br>a) Andhra Pradesh & Gujarat b) Manipur &Punjab<br>**c) West Bengal &Meghalaya** d) None of the above |
| 86 | Which is the only Union Territory classified under Region 'B' ? (D)<br>a) Pondicherry b) Daman & Diu c) Andaman & Nicobar **d) Chandigarh** |
| 87 | According to Official Language Rules Which States comes under Region "A" ? (D)<br>a) Haryana & Mizoram b) Bihar & Meghalaya<br>c)Rajasthan & Maharashtra **d) Madhya Pradesh &Himachal Pradesh** |

## Crew Management System

1. CMS is aimed to provide _____ (D)

a Position of crew at HQ/OS
b Maintain status wise records
c PR,maintaining LR,PME details
d All of the above

2. Objectives of CMS_____ (D)
a Optimization of crew
b Monitoring of LR and training schedules
c Monitoring of 10hrs duty and HOER
d All of the above

3. What is TA_____ (B)
a Traffic Apprentices
b Traffic Advice
c Train Acknowledgement
d Train Application

4. CMS can work in _____ (A)
a Online mode
b Offline mode
c Both A and B
d None of the above

5. Who creates the TA_____ (A)
a Traffic supervisor
b BET
c CCC
d Both A and C

6. Sign-ON and Sign-OFF approval given by _____ (B)
a TNC
b Traffic supervisor
c CCC
d Not required any approval

7. Username is unique for _____ (D)
a Division Console
b Lobby Console
c Supervisor Console
d Both A and B

8. Browser for CMS reports_____ (C)
a cms.indianrail.com.in
b cms.indianrailways.gov
c cms.indianrail.gov.in
d 10.60.200.168/cmsreport

9. User password should not contain_____ (D)
a User name and user ID
b Crew ID
c Special Character
d All the above

10. Password validity period____ months (C)
a 3
b 5

c 6
d 4

11. _____is responsible for Crew booking in CMS (B)
a TNC
b Superviser
c Both
d CCC

12. Routes can be created at _____ (D)
a Depot level
b Division level
c Zonal level
d CRIS/NDLS

13. Train pulling timings are _____ for all Lobbies (B)
a Same
b Different
c Discrimination of on duty supervisor
d None of the above

14. Who is authorized for crew grading. (B)
a CCC
b CLI
c Any one of A & B
d Branch officer

15. Which one of the following is not belongs to crew biodata? (D)
a Others
b Training
c Loco competency
d Training pulling

16. In CMS LR due time can be configured at _____ level as per logic. (B)
a Zonal level
b Division level
c Lobby
d Both A & B

17. The concept of crew serve call given from station A, but crew need to sign on at station B is called ____ (B)
a Parent Lobby
b Sister Lobby
c HQ Lobby
d Both A & B

18. Process of sign on crew will be shifted to new TA is called as___ (A)
a Swapping of crew
b Swapping of TA
c Resetting of TA
d Both B & C

19. What is FAFO? (C)
a First Arrival First Out

b First Available First Off
c First Available First Out
d First Arrival First Off

20. Sorting of HQ crew depends on which logic (D)
a FAFO
b FIFO
c Progressive hours
d Any one of the above

21. _____ is called sorting of crew by arrival time. (A)
a FIFO
b FAFO
c Progressive hours
d Any one of the above

22. _____option is to be applied to get fortnight cumulative hours while crew booking (C)
a FIFO
b FAFO
c Progressive hours
d Any one of the above

23. Parameters to be checked in “Fetch crew as per Rule” is _____ (D)
a PME & G and SR
b Traction, Tech training
c LR, Rest and Loco competency
d All of the above

24. Parameters to be checked in “Fetch crew All” is _____ (D)
a PME
b G & SR
c Completion Rest
d Both A & B

25. Serving of calls to crew can be done _____ (D)
a Automatically
b Manually
c Both A & B
d Any one of A and B

26. SMS will be triggered to crew in _____call serve. (A)
a Automatic
b Manual
c Both A & B
d None of the above

27. Supervisor SignON can be done on behalf of _____ (B)
a CCC
b Crew
c Branch officer
d Both A and B

28. Difference between “Train departure time” and “Actual crew Sign ON time” is called _ (B)
a PAD
b PDD

c PCDO
d None of the above

29. Difference between “Train arrival” and “Sign ON” is called _____ (A)
a PAD
b PDD
c PCDO
d None of the above

30. If crew failed in BA test, then the crew status goes to_____ (C)
a SYSLT
b SYSRF
c SYSBAF
d SYSNF

31. Parameters for Periodical Rest (PR) due___ (D)
a Working for 7 consecutive days
b Working on 3 consecutive nights
c Working for continuous 54 hrs
d All of the above

32. For updating the CTLC/CPRC/PCR/SHDT movements, crew should be shown in ___ (B)
a Non-run
b Non-run roster
c Casualty
d None of the above

33. What is CT (A)
a Competency trails
b Crew traction
c Children transport
d None of the above

34. What is SPRT (B)
a Self-propelled relief train
b Sports
c Spare for refresher transport
d None of the above

35. REFD indicates____ (C)
a Reference drawing
b Reference drafting
c Refresher diesel
d None of the above

36. TAE indicates _ (C)
a Traffic apprentices electrical
b Territorial army employee
c Territorial army embodiment
d Both B and C

37. TJIN indicates _____ (A)
a Joining time
b Time for joint inspection

c Train arrival
d Train cancellation

38. Viewing of status and location of the crew by__ (B)
a Book crew
b Search crew
c Serve call
d A & B

39. Searching of crew can be done by___ (D)
a Crew Name
b Crew ID
c EMP. NO.
d Any one of A, B & C

40. _____ are small database queries essential to check the crew control and optimization. (C)
a CMS reports
b CMS application
c CMS alerts
d Both A and B

41. _____ gives instant updated crew position of a Lobby. (D)
a CMS reports
b CMS application
c CMS alerts
d Both A and B

42. If serve call acknowledged and crew not turned-up for duty, then crew status goes to ___ (B)
a SYSRF
b SYSLT
c SYSNF
d Remains same

43. Crew can Sign-ON/OFF by using _____ in integrated KIOSK (A)
a Biometric device
b By password
c Both compulsory
d Any one of A and B

44. No crew can Sign-ON without reading of _____ in KIOSK (D)
a Caution order
b Circulars
c Any one of A and B
d Both A and B

45. Crew cannot Sign-ON more than _____ mins before the Sign-ON time (D)
a 20
b 30
c As fed by Lobby configuration console in train pulling location
d Any one of B and C

46. Crew can Sign-OFF only in case the ____ has been approved by supervisor (B)
a Acknowledgement
b Sign-ON

c Call book
d All the above

47. If the crew didsome other work in EN-route, then the crew must opt for ____ in KIOSK (B)
a Normal Sign-OFF
b Manual Sign-OFF
c CTR entry
d Any of A and B

48. Before Sign-ON in integrated KIOSK the following are mandatory _____ (D)
a Reading of circulars
b Reading of caution orders
c Conducting of BA test
d All the above

49. If the crew reports late by 30 mins from the train departure time, crew status turns to _ (C)
a SYSRF
b SYSNF
c SYSLT
d Pending

50. The circulars are updated in _____ only (B)
a Lobby configuration
b Division configuration
c Zonal configuration
d Branch officers

**ESTABLISHMENT ON PERSONAL MATTERS**

01 The amount of maintenance grants to be granted per month (on SBF) to All Gr."C" & "D"

employees irrespective of their pay and nature of disease, subject to the sickness in Govt./Rly Hospital exceeding 15 days on LWP: (A)

**a. Rs. 3000/-** b. Rs. 1000/- c. Rs. 5000/- d. None of the above

02 The amount of Medical assistance to be granted per month(max. 3 months) under SBF to all All Gr."C" & "D" employees who themselves/their family members suffer from major diseases and chronic diseases involving major operations, on recommendation by Rly. medical authorities. (A)

**a. Rs. 2000/-** b. Rs. 3000/- c. Rs. 1000/- d. None of the above

03 Non-gazetted cadre in pay matrix level 6 and above are eligible for duty pass travel in. (A)

**a. First class** b. First class A c. Both a & b d. None of the above

04 In NPS system the contribution by the central government shall be (B)

a. 10 % basic pay plus DA **b. 14% basic pay plus DA** c. 14% basic pay d. 10% basic pay

05 Persons with disability may be granted SCL for period of _____ per calendar year. (C)

a. 10 days b. 11 days **c. 4 days** d. 3 days

06 CCL may not be granted less than _____ days at a time. (D)

a. 2 days b.3 days c. 4 days **d. 5 days**

07 As per HRC, running duty for the purpose of preparation links only should not exceed for Mail/Express. (B)

a. 7 hrs **b. 8 hrs** c. 9 hrs d. 10 hrs

08 An amount of additional allowance paid to Motorman per month (C)

a. Nil b. Rs. 750/- **c. Rs.1125/-** d. Rs. 2250/-

09 NHA for grade pay 3 to 5 (VII CPC) staff (B)

a. Rs. 384/- **b. Rs. 477/-** c. Rs. 630/- d. Rs. 747/-

10 Bungalow peon is classified under (C)

a. Intensive r b. Continuous **c. EI** d.None of the above

11 Standard hours for Intensive employment (A)

**a. 42hrs/week** b. 48 hrs/week c. 45 hrs/week d. None of the above

12 The classification of_____ employments is defined in Section 130 (a) (A)

**a. Continuous** b. Intensive c. EI d. Excluded

13 Time limit for appealing against classification is _____ days. (B)

a. 30 days **b. 90 days** c. 45days d. None of the above

14 Running staff shall be granted rest of _____ including full night in bed in a month (C)

a. 4 periods of 30 hours b. 5 periods of 22 consecutive hours

**c. Either a or b** d. None of the above

15 Expand RLC (B)

a. Regional Labour Court **b. Regional Labour Commissioner**

c. Regional Labour counsel d. None of the above

16 Payment of wages Act, 1936 came into force (A)

**a. 23.04.1936** b. 13.04.1936 c. 28.04.1936 d. 30.04.1936

17 According to ____ the wage period not to exceed one month in payment of wages act. (A)

**a. Sec. 4** b. Sec. 3 c. Sec. 2 d. Sec.1

18 The Payment of Wages (Amendment) Bill, 2017 was introduced in Lok Sabha on (C)

a. February 23, 2017 b. February 02, 2017 **c. February 03, 2017** d. February 13, 2017

19 Workmen Compensation Act, 1923 came in to force? (B)

a. 01.07.1923 **b. 01.07.1924** c. 01.01.1924 d. 01.01.1923

20 Commissioner for workmen's compensation appointed under section?

a. Section 12 b. Section 02 c. Section 01 **d. Section 20** (D)

21 In which section, amount of compensation mentioned in Workmen compensation act. (A)

**a. Sec. 4** b. Sec. 3 c. Sec. 2 d. Sec.1

22 Loco performance statics "statement -18" describes (A)

**a. Engine hours** b. Train & Engine kms c. Fuel statistics d. Train & Engine hrs

23 ' Leave Reserve' for Loco inspector is provided in the category of (B)

a. LP goods **b. LP Pass** c. LP Mail & Exp. d. CLI

24 Crew links are to be prepared based on (C)

a. Sanctioned strength b. Loco link **c. WTT** d. Rake link

25 Running staff review should be carried out for every (B)

a. Year **b. Six months** c. Two years d. Three months

26 Loco Outage means: (A)

**a. Loco outage = Engine Hours for traffic use/ 24 hrs.**

b. Loco outage = Engine KMs for traffic use/24 hrs.

c. Both a & b d. None of the above

27 Basic duty of TLC/Power controller (D)

a. To arrange motive power b. To guide running staff

c. Planning of locos to home shed for maintenance **d. All the above**

28 "Shram Suvidha Portal" is maintained by (A)

**a. Ministry of Labour & Employment in central government**

b.Ministry of Home affairs in central government

c. Ministry of HRD d. None of the above

## RS (D&A) Rules, 1968

01 Punishment norms dealt as per (B)

a. Rule No.5 **b. Rule No. 6** c. Rule No. 11 d. None of the above

02 Procedure for imposing Major penalties in which Rule of RS (D&A) Rules, 1968 (A)

**a. 9** b. 11 c. 5 d. None of the above

03 During suspension which type of allowance is eligible for running staff (C)

a. Subsistence allowance b. Average running allowance

**c. Both a & b** d. None of the above

04 Standard Form No. 5 relates to (A)

**a. Issue of major penalty** b. Issue of suspension

c. Issue of minor penalty d. Nomination of Inquiry Officer

05 Revision under which rule is to be made? (B)

a. Rule No. 21 **b. Rule No.25** c. Rule No. 9 d. None of the above

06 According to Rule No. 3.1 of RS (Conduct) Rules, 1966, every Railway Servant shall at all times; (C)

a. Maintain absolute integrity b. Maintain devotion to duty

**c. Both a & b** d. None of the above

07 Appointing authority in relation to a Railway Servant means: (D)

a. an authority who actually appointed him

b. equal or higher authority empowered to make appointments to the post

c. any other authority **d. a&b only**

08 RS (D&A) Rules are not applicable to: (D)

a. any member of All India Services b. RPF personnel

c. any person in casual employment **d. all of the above**

09 While holding enquiry, who have to fix the date, time & venue and inform the Charged employee: (A)

**a. Inquiry officer** b. Disciplinary authority

c. presenting officer d. Confidential section of the dept

10 Inquiry Officer can delegate his functions to: (D)

a. Disciplinary authority b. Defence helper

c. Presenting officer **d. He cannot delegate**

## STORES & TENDERS

01 GST is calculated on (D)

a. Basic cost of the material b. Basic cost of the material & packing charges
c. Basic cost of the raw material.
**d. Basic cost of the material + forwarding charges + freight charges**

02 Non stock indents above Rs 45 lakhs have to be approved by_____ (C)
a. JAG scale officer b. ADRM
**c. PHOD/CHOD of department** d. None of the above

03 Which of the following exercise is being monitored by railway board on regular basis; (C)
a. PL verification b. PL allocation **c. PL unification** d. PL duplication

04 Into how many climatic zones, Indian Railway is classified for supply of uniforms; (B)
a. 7 **b. 5** c. 9 d. 18

05 The plan head for stores suspense is _____. (C)
a. PH-16 b. PH-30 **c. PH-71** d. None of the above

06 Money allotted for purchase of stock items is called (D)
a. Purchase money b. Purchase balance c. Purchase suspense **d.Purchase grant**

07 The detailed distribution of budget allotment made to railway administrations is contained in ; (C)
a. Yellow book b. Green book **c. Pink Book** d. White Paper

08 As soon as the offer of the tenderer is accepted, the contractor has to deposit SD (D)
a. Within 30 days of the posting of written notice of acceptance
b. Within 25 days of receipt of the communication
c. Within 21 days of receipt of the communication
**d. Within 14 days of the posting of written notice of acceptance**

09 A firm has entered into a contract with Railway to supply an item free off any cost. In the eye of Law (B)
a. Penalty can be imposed on firm in case of failure in supply
b. **Contract is not enforceable**
c. Contract is enforceable, but penalty cannot be imposed
d. Firm should be considered in future based on supply contract

10 In case of Rate Contract (B)
a. Quantity, Rate., Consignee is stipulated **b. Only rate is stipulated**
c. Quantity and Rate is stipulated d. Quantity, rate and Delivery Period is stipulated.

11 Which among following is not a material inspecting agency: (C)
a. RDSO b. DOI **c. IRTS** d. RITES

12 What is the name of website for login in E-auction is www. ? (C)
a. indianrailways.gov. in b. scrtrso.gov.in **c. ireps.gov.in** d. None of the above

13 BSV full form (B)
a. Book sale value **b. Balance sale value** c. Balance stock value d. Bulk store value

14 In which form, Materials not required are returned to the nominated stores depot as per stores code ? (A)
(a) S – 1539 (b) S-1739 (c) S-1549 (d) S-1749

15 Disposal of scrap may be done by (D)
a. Auction b. Sale by tender c. Sale to other Govt. department and undertakings
**d. All the above**

16 Which of the following items need not to be verified (D)
a. Dunnage b. Petty consumable stores
c. Dead Stock, Tools & Plants of low value **d. All of the above**

17 Registration of firm is treated as provisional until the firm (A)

**a. has executed satisfactorily one order** b. has secured one order
c. has received one tender d. All of the above

18 First two digits in any price list No represent: (D)
a. Part Number b. Specification Number c. Drawing Number **d. Group Number**

19 Special limited tender is one where (B)
a. Number of firms is just one **b. Purchase value is high but Limited tender is issued**
c. Purchase must be restricted from few firms d. Tender is issued by Registered post

**CONTRACTS & WORKS:**

1. Powers of JAG officer for calling of open tenders of works/service contracts up to Rs. _____ (D)
A. Rs. 2 Crores B. Rs. 4 Crores, C. Rs. 8 Crores, **D. Full powers**

2. Minimum notice period for inviting open tenders in works/service contracts _____ days. (C)
A. 15 B. 30 **C. 21** D. 25

3. Minimum notice period for inviting limited tenders in works/service contracts ____ days. (A)
**A. 15** B. 30 C. 21 D. 25

4. Cost of tender form costing above Rs. 20 lakhs and up to Rs. 50 lakhs is_____ . (B)
A. Rs.2000, **B. Rs.3000,** C. Rs.5000, D. Rs.10000.

5. Composition of Tender committee for works costing Rs. 1 Crore to Rs. 4 Crore. (C)
A. Jr.Scale of Executive Dept. & Jr.Scale of Accounts Dept. B. JAG/SG of Executive Dept & JAG/SG of Accounts Dept **C. Sr.Scale of Executive Dept. & Sr.Scale of Accounts Dept.**
D. JAG/SG of Executive Dept, JAG/SG of Sister Dept & JAG/SG of Accounts Dept.

6. In case of quotation tenders, _____ days notice shall be given. (A)
**A. 7** B. 10 C. 15 D. 20

7. The Performance guarantee to be paid for the Service contracts is _____ % of awarded value. (B)
A. 5 **B. 10** C. 15 D. 20

8. Earnest Money to be deposited along with tenders up to Rs. 1 Crore is @ _____ %. (B)
A.5 **B.2** C.10 D.15

9. In Service contracts the value of the liquidity to be submitted along with the tenders @ ___ % of advertised tender value. (C)
A.10 B.8 **C.5** D.2

10. The annual monetary ceiling limit of JAG officer for sanctioning expenditure under Quotations is Rs._____. (D)
A.50 lakhs B.1.2 Crores C.10 lakhs **D.60 lakhs**

11. Minimum number of contractors/agencies for calling quotations is _____. (B)
A. 2 **B.3** C.4 D.5

12. 2 packet system of bidding will be adopted for evaluation of Service contracts valuing Rs.__ and above.
A. Rs.30 lakhs **B. Rs.50 lakhs** C. Rs.70 lakhs D. Rs. 1 Crore (B)

13. _____% of GST will be levied for Vehicle contracts. (C)
A. 10 B. 8 **C. 5** D.18

14. _____% of GST will be levied for Running room maintenance contracts. (D)
A. 10 B. 8 C. 5 **D.18**

15. EPF will be paid by the Contractor for the work having _____ and above contract employees. (C)
A.10 B.15 **C.20** D.25

16. ESI will be paid by the Contractor for the work having _____ and above contract employees. (A)
A.10 B.15 C.20 D.25

17. The Seignorage collected for Cubic Metre of sand is Rs._____. (C)
A. Rs.36 B. Rs.56 C. Rs.66 D. Rs.46

18. The Performance guarantee paid by the contractor will be released after _____ . (B)
A. After passing of Final bill **B. On completion of the work**,
C. After completion of maintenance period D. On submission of 'No claim' certificate

19. The value of the similar nature of work to be submitted along with tender is ------ % of advertised tender value.
A. 25 B. 55 C. 45 **D.35** (D)

20. The minimum value of the Turn over duly certified by the Chartered Accountant to be submitted along with tender is_____ % of advertised tender value. (B)
A. 100 **B. 150** C. 75 D.125

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# Multiple Choice Question

Q1- Rating of EMU/MEMU transformer is
(a) 1200KVA (b) 1000KVA (c) 800 KVA (d) 1100KVA
Q2-Voltage rating of EMU/MEMU Traction Motor is
(a) 500 V (b) 580 V (c) 535 V (d) 550 V
Q3-New wheel diameter of EMU/MEMU Motor Coach/Trailer coach
(a) 900 mm (b) 950 mm (c) 850 mm (d) 952 mm
Q4- Total auxiliary motors in EMU/MEMU motor coach are
(a) 5 (b) 4 (c) 3 (d) 2
Q5- Total No. of traction motors in a EMU/MEMU Motor Coach is
(a) 2 (b) 3 (c) 4 (d) 5
Q6- The Safety device provided in EMU/MEMU for detecting gassing and the protection of Transformer is:
(a) OLP (b) TTR (c) BUD (d) PRV
Q7-The Safety device fitted in the EMU/MEMU Transformer for its protection against explosion:
(a) PRV (b) OLP (c) BUD (d) TTR
Q8-The Ampere hour capacity of EMU/MEMU battery is :
(a) 80 Ah (b) 90 Ah (c) 100 Ah (d) 75 Ah
Q9-In EMU/MEMU, the setting of Parking brake governor cut in/cut out is :
(a) 6.0/7.0 kg/cm² (b) 3.3/4.3 kg/cm² (c) 2.6/3.2 kg/cm² (d) 4.0/5.0 kg/cm²
Q10-In EMU/MEMU the setting of MCP Governor cut in /cut out is :
(a) 5.0/6.0 kg/cm² (b) 7.0/8.0 kg/cm² (c) 4.5/5.5 kg/cm² (d) 6.0/7.0 kg/cm²
Q11- In EMU/MEMU one of the following is a part of brake controller :
(a) Tripple valve (b) Equalising discharge valve (c) Safety valve (d) Application magnet valve
Q12-In EMU/MEMU one of the following is a part of EP unit :
(a) Tripple valve (b) Equalising discharge valve (c) Puppet valve (d) Self lapping cylinder
Q13-In EMU/MEMU the setting of equipment governor cut in/cut out is
(a) 4.5/5.5 kg/cm² (b) 2.2/3.8 kg/cm² (c) 4.2/3.3 kg/cm² (d) 4.4/5.2 kg/cm²
Q14-In EMU/MEMU the setting of control governor cut in/cut out is
(a) 5.5/4.3 kg/cm² (b) 3.3/4.2 kg/cm² (c) 3.2/4.8 kg/cm² (d) 5.5/6.5 kg/cm²
Q15-In EMU/MEMU the BC Pressure for MC is :
(a) 2.0 kg/cm² (b) 1.6 kg/cm² (c) 3.5 kg/cm² (d) 1.5 kg/cm²
Q16-In EMU/MEMU the BC Pressure for TC is :
(a) 2.0 kg/cm² (b) 1.6 kg/cm² (c) 1.2 kg/cm² (d) 1.5 kg/cm²
Q17-In EMU/MEMU the MR Pressure is :
(a) 5.0 kg/cm² (b) 6.0 kg/cm² (c) 7.0 kg/cm² (d) 8.0 kg/cm²
Q18-The type of Traction Motor used in EMU/MEMU is :
(a) 4001 BX (b) 4601 BX (c) 6040 BX (d) None of the above
Q19-The wheel diameter condemn limit for MC is :
(a) 952 mm (b) 900 mm (c) 877 mm (d) 857 mm
Q20-The wheel diameter condemn limit for TC is :
(a) 952 mm (b) 900 mm (c) 877 mm (d) 857 mm
Q21-The width of EMU/MEMU coach is :
(a) 3250 mm (b) 3600 mm (c) 3650 mm (d) 3660 mm
Q22-The No of teeth in EMU/MEMU traction motor pinion is :
(a) 19 (b) 20 (c) 55 (d) 91
Q23-The gear ratio in EMU/MEMU is ;
(a) 1 : 4 (b) 1 : 5 (c) 1 : 4.55 (d) 1 : 5.55
Q24-The type of EMU/MEMU pantograph is ;
(a) AM-10 (b) AM-12 (c) AM-14 (d) None of the above
Q25-The type of strip used in EMU/MEMU pantograph is ;
(a) Metalised carbon (b) Carbon (c) Mild steel (d) None of the above

Q26-The pantograph strip thickness condemn limit is ;
(a) 2.5 mm (b) 3.5 mm (c) 4.5 mm (d) None of the above
Q27-The control voltage in EMU/MEMU is ;
(a) 110 V AC (b) 230 V AC (c) 110 V DC (d) 230 V DC
Q28-The rating of EMU/MEMU traction motor is :
(a) 150 KW (b) 535 KW (c) 230 KW (d) 167 KW
Q29-The rating of EMU/MEMU Transformer is :
(a) 1000 KVA (b) 535 KVA (c) 25 KVA (d) 50 KVA
Q30-The type of cooling of transformer oil is :
(a) OFAF (b) OF (c) AF (d) None of the above
Q31-The voltage of primary winding of EMU/MEMU transformer is :
(a) 25 KV (b) 266 V (c) 782 V (d) None of the above
Q32-The voltage of Secondary winding of EMU/MEMU transformer is :
(a) 25 KV (b) 266 V (c) 782 V (d) None of the above
Q33-The voltage of Auxiliary I winding of EMU/MEMU transformer is :
(a) 25 KV (b) 266 V (c) 782 V (d) None of the above
Q34-The voltage of Auxiliary II winding of EMU/MEMU transformer is :
(a) 141 V (b) 266 V (c) 782 V (d) None of the above
Q35.-The capacity of oil pump in EMU/MEMU is :
(a) 363.6 lpm (b) 263.6 lpm (c) 360 lpm (d) 400 lpm
Q36-The No of main poles in EMU/MEMU traction motor is :
(a) 2 (b) 4 (c) 6 (d) None of the above
Q37-The setting of thermostat in EMU/MEMU transformer is :
(a) 75 °C (b) 85 °C (c) 65 °C (d) None of the above
Q38-The BDV stands for :
(a) Break down value (b) Break down voltage (c) Break drop voltage (d) None of the above
Q39-The BDV for new filtered oil for transformer is :
(a) 40 KV (b) 60 KV (c) 30 KV (d) None of the above
Q40-The capacity of main compressor in EMU/MEMU is:
(a) 900 lpm (b) 1000 lpm (c) 500 lpm (d) None of the above
Q41-The rating of MCP in EMU/MEMU is:
(a) 12 HP (b) 10 HP (c) 20 HP (d) None of the above
Q42-The No of carbon brushes in TM are :
(a) 2 (b) 4 (c) 6 (d) 8
Q43-The condemning size of TM carbon brush is :
(a) 32 mm (b) 40 mm (c) 35 mm (d) None of the above
Q44-The type of TM suspension in EMU/MEMU is ;
(a) Fixed (b) Axle hung nose suspended (c) Mounting pad (d) None of the above
Q45-The type of Schaku coupler in EMU/MEMU is :
(a) Semi-permanent (b) Permanent suspended (c) Screw coupling (d) None of the above
Q46-The location of Air Dryer in EMU/MEMU is
(a) HT compartment (b) LT compartment (c) Rear of MC (d) None of the above
Q47-The location of ASL in EMU/MEMU is
(a) HT compartment (b) LT compartment (c) Bogie (d) None of the above
Q48-The function of Aux rectifier is to feed :
(a) Aux I circuit (b) Battery charger (c) Aux II circuit (d) None of the above
Q49-The function of DC-DC converter is to feed :
(a) Flasher light (b) Head light (c) Tail lamp (d) None of the above
Q50-The number of batteries available in EMU/MEMU are :
(a) 5 (b) 8 (c) 10 (d) None of the above
Q51-Total time required to get complete notches from starting to full power :
(a) 5-15 sec (b) 10-12 sec (c) 15-20 sec (d) None of the above
Q52-Notches will not respond if one of the following is ‘Off’ ::
(a) OL reset (b) CR (c) BIV (d) BL switch

Q53-If Traction motor No 4 is grounded, which of the following relay will act?
(a) OL 1&2 (b) OL 3&4 (c) EFRP (d) EFRA-II
Q54-If any one of the MAIN Rectifier fuse is blown
(a) SR will not pickup (b) ABB will trip (c) Only indication will come (d) TLTE
Q55-Auxiliary compressor is a
(a) DC motor (b) Single phase AC motor (c) 3 phase AC motor (d) none of these
Q56-Conservator is part of
(a) Traction motor (b) Transformer (c) Main compressor (d) VCB
Q57-MCB's will not trip if
9a) AWS on (b) HL switch on (c) Flasher switch on (d) HOBA fault
Q58-LTR relay is provided in
(a) Power circuit (b) Auxiliary I Circuit (c) Auxiliary II circuit (d) Control circuit
Q59-Voltage rating of Auxiliary I circuit is
(a) 141 V (b) 266V (c) 230V (d) 110V
Q60-In case of earth fault in Emergency light which relay will act
(a) EFRP (b) OLP (c) EFRA II (d) RFAR
Q61-Setting of OL 5& 6 relays in EMU/MEMU
(a) 4000 A (b) 3000 A (c) 2000 A (d) 1000 A
Q62-SR not picking up with MSTWL, problem is
(a) Tap changer contactor not closing (b) Motor contactor not closing
(c) SR relay I/L bad contact (d) Control switch defective
Q63- KF –1 is a
(a) Radiator cooling fan motor (b) Contactor (c) Change over Switch (d) Rectifier Cooling Fan motor
Q64-Function of Main Rectifier is
(a) To Convert DC to AC (b) To Convert AC to DC
(c) To Convert DC to Variable DC (d) To Convert 3 phase AC to DC
Q65-Total no. of air filters for traction motors in EMU/MEMU are:
(a) 4 (b) 8 (c) 16 (d) 32
Q66-Voltage rating of Traction motor of EMU/MEMU is
(a) 575 V (b) 535 V (c) 635 V (d) 475V
Q67-Color of good silica gel is
(a) Black (b) Blue (c) Pink (d) White
Q68-Purpose of Auxiliary rectifier is
(a) To feed TM (b) To feed Aux. Compressor (c) To feed Main Compressor (d) To feed Control Circuit
Q69-VCB will trip for following relay
(a) TTR (b) RFAR (c) CBAR (d) BIR
Q70-Which of the following is an Air flow relay
(a) ARR (b) RFR (c) RFAR (d) TTR
Q71-When TTR act the following lamp will glow:
(a) ABB (b) UFL (c) CHBA OFF (d) MSTWL
Q72-CC I is used for
(a) Aux. Compressor (b) Main Compressor (c) Oil pump (d) Traction motors
Q73-Location of EAS in EMU/MEMU:
(a) Roof (b) HT room (c) Cab (d) LT room
Q74-CHBA output voltage is
(a) 110V AC (b) 141 V AC (c) 266 V AC (d) 110 V DC
Q75-Fans in EMU/MEMU are working with
(a) 110 V AC (b) 110 V DC (c) 141 V AC (d) 266 V AC
Q76-Voltage of Aux. I circuit is
(a) 141 V (b) 266 V (c) 110 V (d) 230 V
Q77-Location of OL 1 &2 relay is
(a) Tap changer (b) Relay panel (c) Switch group I (d) switch group II

Q78-Relay to detect abnormalities in Transformer

(a) EFRA II (b) RFAR (c) BIR (d) OL 1 & 2

Q79-Circuit Breaker used in MMTS EMU/MEMU is

(a) ABB (b) SF-6 (c) VCB (D) OCB

Q80-Location of SL in EMU/MEMU is

(a) HT Room (b) LT Room (c) Choke Tank (d) Cab

Q81-Pick up Voltage of OVR is

(a) 140V (b) 540V (c) 230V (d) 840V

Q82-Setting temperature of TTR is at

(a) 150°C (b) 75°C (c) 200°C (d) 35°C

Q83-To reset OL the following switch is to be put off:

(a) ABB (b) Control (c) EP (d) Panto Raise

Q84-Safety relays are

(a) TTR,CBAR (b) TTR, RFAR (c) CBAR, NVR (d) BIR,OLP

Q85-In Twin Beam Head light the rating of bulb is

(a) 24 v, 70/75w (b) 110v, 70/75w (c) 24v, 90/100w (d) 110v, 90/100w

Q86-The input/output voltage of DC-DC converter are

(a) 110v/110v (b) 110v/100v (c) 110v/24v (d) 110v/32v

Q87-MCP motor is

(a) 130v DC motor (b) 144v AC motor (c) 266v AC motor (d) 230v AC motor

Q88-Setting of Control governor is

(a) 4.2 – 3.3 kg/cm² (b) 3.2 -4.4 kg/cm² (c) 4.0 - 3.2 kg/cm² (d) 3.0- 4.2 kg/cm²

Q89-SR relay is

(a) EM type (b) EP type (c) latching type (d) electronic type

Q90-Total no. of notches in EMU/MEMU

(a) 11 (b) 22 (c) 20 (d) None of the above

Q91-No of jumpers in MMTS EMU/MEMU

(a) 5 (b) 4 (c) 10 (d) 8

Q92-Electrolyte used in a Lead acid battery is

(a) Concentrated sulphuric acid (b) Diluted sulphuric acid (c) Nitric acid (d) Hydro chloric acid

Q93-The rating of HRC fuse for control circuit is

(a) 50A (b) 32A (c) 63A (d) 10A

Q94-The Ampere hour Capacity of EMU/MEMU battery is

(a) 90 AH (b) 75AH (c) 95AH (d) 70AH

Q95-ARR stands for:

(a) Air Reset Relay (b) ABB Reset Relay (c) ABB act Relay (d) None of the above

Q96-CBAR stands for:

(a) Current Balancing Auxiliary Relay (b) Current Balancing Air Relay

(c) Current Breaking Auxiliary Relay (d) Current Breaking Air Relay

Q97-The following is not a safety item

(a) ACP (b) Head light (c) Flasher Light (d) Spot light

Q98-Rating of OLP relay is

(a) 100A (b) 100V (c) 160A (d) 160V

Q99-When earth fault occurs in Auxiliary compressor the following will trip

(a) ABB (b) EFRA II (c) MCB (d) EFRP

Q100-Battery used in EMU is

(a) Ni-Cd Cell (b) Lead acid cell (c) Dry cell (d) Edison cell

Q101-Location of PB relay is

(a) HT Room (b) LT Room (c) In relay panel (d) in rectifier cubic

Q102-If BP pressure is less than 4 kg/cm.sq, SR will not pick up through which governor

(a) Aux. Comp governor (b) Equipment governor

(c) Control Governor (d) Main compressor Governor

Q103-DMH is a part of

(a) Break controller (b) Master controller (c) Guard brake (d) BL box

Q104-Breather is a part of

(a) Transformer (b) Traction motor (c) VCB (d) Main compressor

Q105-Silica gel is used

(a) To lubricate Bearing of TM (b) to cool Transformer oil

(c) To absorb moisture (d) to lubricate servo motor piston

Q106-CBAR will trip only when

(a) One bridge fuse blown (b) Two bridges fuse blown (c) both a & b (d) Rectifier Fan not working

Q107-To operate EAS, which of the following key is required?

(a) BL key (b) Reverser key (c) BIV key (d) No key is required

Q108-Location of control governor of EMU is in

(a) HT Room (b) LT Room (c) Cab (d) Near to main compressor

Q109-Tap changer contactor auxiliary interlock gap is

(a) 2 – 4 mm (b) 1 – 2 mm (c) 2.4-3.2 mm (d) 1.4-2.2 mm

Q110-SR Relay

(a) Can be packed only up to shunt power (b) can be packed only on Emergency

(c) Should not be packed (d) can be packed up to half power

Q111-Pick up voltage of LTR is

(a) 70 V (b) 100 V (c) 110 V (d) 120 V

Q112-Buchholz relay is to protect

(a) Transformer (b) Traction motor (c) Main Rectifier (d) MCP

Q113-When AWS is switched ON only notches will come upto

(a) Shunt (b) Half power (c) Full power (d) No notches

Q114-Location of PB governor is

(a) LT Room (b) HT Room c) Trailer Coach 'C' (d) Trailer Coach 'D'

Q115-PRV is to protect

(a) TM (b) Transformer (c) Main compressor (d) Rectifier

Q116-Size of cable used in control circuit is

(a) 3 Sq.mm (b) 10 sq.mm (c) 25 sq.mm (d) 50 sq.mm

Q117-In EMU/MEMU the MR Pressure

(a) 5.0 kg/cm² (b) 7.0 kg/cm² (c) 6.0 kg/cm² (d) 8.0 kg/cm²

Q118-BP Pressure to start the train

(a) 5 kg/cm² (b) 6 kg/cm² (c) 4 kg/cm² (d) kg/cm²

Q119-Main Compressor Governor Cut out pressure

(a) 6 Kg/cm² (b) 6.3 Kg/cm² (c) 7 Kg/cm² (d) 7.5 Kg/cm²

Q120-Main Compressor Governor Cut in pressure

(a) 6 Kg/cm² (b) 6.3 Kg/cm² (c) 7 Kg/cm² (d) 7.5 Kg/cm²

Q121-Brake cylinder pressure in MC

(a) 1.2 Kg/cm² (b) 1.6 Kg/cm² (c) 2 Kg/cm² (d) 1.4 Kg/cm²

Q122-Main Reservoir Safety valve setting

(a) 6.75 Kg/cm² (b) 8 Kg/cm² (c) 7.75 Kg/cm² (d) 7 Kg/cm²

Q123-Panto raising time

(a) 6-10 Sec (b) 8-10 Sec (c) 7-10 Sec (d) 7-12 Sec

Q124-Which oil is to be added in ELGI Make Main Compressor.

(a) SAE 40 (b) SP 150 (c) SP 100 (d) SP 68

Q125-Working voltage of Main Compressor of EMU/MEMU

(a) 25 KV AC (b) 110 V AC (c) 110 V DC (d) 3 ph AC

Q126-Number of Pantograph mounting Insulators

(a) 4 Nos. (b) 5 Nos. (c) 6 Nos. (d) 8 Nos.

Q127-DMH Brakes will be apply through

(a) VEPT Valve (b) Pilot Valve (c) Duplex Check Valve (d) Levelling Valve

Q128-Wheel to Wheel Distance in mm on EMU/MEMU Bogies

(a) 1600 mm (b) 1575 mm (c) 1625 mm (d) 1550 mm

Q129-New wheel dia in MC of EMU/MEMU in mm

(a) 877 (b) 952 (c) 962 (d) 857

Q130-Secondary Suspension in MMTS EMU/MEMU is

(a) Helical Spring (b) Air Suspension (c) Bolster Frame (d) Dash Pot

Q131-Ultrasonic Test is carried out to detect

(a) Oil Leakages (b) Cracks (c)Temperatures (d) None of these

Q132-New EMU Brake block size in mm

(a) 46 (b) 47 (c) 48 (d) 49

Q133-No. of Brake cylinders available in EMU/MEMU C Coach

(a) 6 (b) 7 (c) 8 (d) 9

Q134-Lubricant used in EMU/MEMU Traction Motor Gear Case :

(a) Servo Coat 170 T (b) SS 68 (c) RR3 (d) SP-100

Q135-Transformer Oil is cooled by

(a) Rectifier Motor (b) Radiator (c) Oil Pump Motor (d) MCP

Q136-Total battery voltage in EMU/MEMU

(a) 90 V (b) 80 V (c) 100 V (d) 110 V

Q137-No. of bridges in EMU/MEMU rectifier

(a) 4 (b) 2 (c) 1 (d) 3

Q138-Type of Brake Cylinder in EMU/MEMU Coaches

(a) JSL 203 mm (b) LD2 (c) KBR VIII C1 (d) ESBC III m

Q139-Parking brake cylinders are fitted on which wheel

(a) 1-4-5-8 (b) 2-3-6-7 (c) 2-4-6-8 (d) 1-3-5-7

Q140-Capacity of Air suspension reservoir in EMU/MEMU Coach in litres

(a) 120 (b) 135 (c) 105 (d) 150

Q141-ICF Type wiper servomotor wiping angle is

(a) 45˚C (b) 60˚ C (c) 75˚C (d) 90˚C

Q142- The number of teeth in TM pinion :

(a) 10 (b) 91 (c) 20 (d) 61

Q143-Additional limiting valve output pressure in TC

(a) 1.6 Kg/cm² (b) 3.5 Kg/cm² (c) 1.2 Kg/cm² (d) 2.5 Kg/cm²

Q144-No. of Positions in brake controller

(a) 5 (b) 6 (c) 7 (d) 8

Q145-Which pressure is dropped while applying the guard emergency brake

(a) MR pressure (b) BP Pressure (c) BC pressure (d) AR Pressure

Q146-BP created from which valve

(a) EDV (b) BIV (c) PRV (d) LV

Q147-Brake cylinder maximum piston stroke (TC) in mm

(a) 40 (b) 50 (c) 60 (d) 90

Q148-The parking brake cylinders are available in which MMTS coach :

(a) Coach 'B' (b) Coach 'C' (c) Coach 'D' (d) None of these

Q149-The number of brush holders in EMU/MEMU traction motor are :

(a) 1 (b) 2 (c) 3 (d) 4

Q150-The number of teeth on gear of wheel set :

(a) 20 (b) 71 (c) 91 (d) 51

Q151- Parking Brake Governor का Setting Range है।

(A) 5.3 - 6.4 kg/cm² (B) 2 - 3 kg/cm² (C) 4.2 – 3.2 kg/cm² (D) None of the above

Q152- ACP (Auxiliary Compressor) का Cut In Range है।

(A) 5.3 kg/cm² (B) 6.4 kg/cm² (C) 5 kg/cm² (D) 5.6 kg/cm²

Q153- ABG (Air Blast Governor) का Setting Range है।

(A) 4.2 – 3.2 kg/cm² (B) 5 - 6 kg/cm² (C) 5.6 - 4.5 kg/cm² (D) None of the above

Q154- EP (Electropnumatic) Brake लगाने से प्रेशर कम होता है।

(A) BP Pressure (B) MR Pressure (C) AR Pressure (D) CR Pressure

Q155- मोटर कोच में Brake Cylinder की संख्या है।

(A) 8+4 (12) (B) 4+4 (8) (C) 4 (D) None of the above

Q156- Auto Brake लगाने से प्रेशर ड्रॉप होता है।

(A) MR (B) CR (C) AR (D) BP

Q157- MEMU/EMU Transformer की क्षमता है।

(A) 500 KVA (B) 1000 KVA (C) 1500 KVA (D) 2000 KVA
Q158- OVR (Over Voltage Relay) की Setting है।
(A) 750 Volts (B) 1000 Volts (C) 535 Volts (D) 400 Volts
Q159- CLR (Current Limit Relay) की Setting है।
(A) 900 A (B) 575 A (C) 4000 A (D) 1000 A
Q160- अधिकतम ऊचॉई रेल लेवल से रुफ छत तक (MEMU) ट्रेलर कोचः-
(A) 20726 mm (B) 3866 mm (C) 21337 mm (D) 3658 mm
Q161- अधिकतम लम्बाई (MEMU Body) मोटर कोचः-
(A) 20726 mm (B) 21567 mm (C) 21337 mm (D) 33245 mm
Q162 12 कोच रेक की लम्बाई :-
(A) 177 meter (B) 258 meter (C) 548 meter (D) None of the above
Q163- DL (Dropping Reactor) Service में रहता है।
(A) 2 notch (B) 12 notch (C) 22 notch (D) उपरोक्त सभी
Q164- TL (Transition Reactor) Service में रहता है।
(A) सम नॉच (B) वि" ाम नॉच (C) सभी नॉच (D) इनमें से कोई नहीं
Q165- Unit Fault Light जलने से यूनिट के फॉल्ट को बताता हौ।
(A) ABB Fault MCB Trip (B) OL-5/OL-6 Trip (C) CBAR Trip (D) RFAR Trip
Q166- NVR Trip होने से यूनिट पर प्रभाव होगा।
(A) ABB /DJ Trip (B) MSTL (C) TLTE (D) None of the above
Q167- MCP का Fuse की क्षमता है।
(A) 125 A (B) 100 A (C) 50 A (D) 63 A
Q168- Aux. I Circuit का Main Fuse की क्षमता है।
(A) 100 A (B) 50 A (C) 32 A (D) 63 A
Q169- D.C. Positive की क्षमता है।
(A) 32 A (B) 15 A (C) 16 A (D) 63 A
Q170- ट्रैक' ान मोटर का हॉर्स पावर MEMU/EMU में होता है।
(A) 250 HP (B) 260 HP (C) 224 HP (D) 167 HP
Q171- MEMU/EMU में Pneumatic Pipe लगा होता है।
(A) MR+BP (B) BP+FP (C) AR+BP (D) CR+BP
Q172- Main Transformer को Over Load से सुरक्षा करता है।
(A) EFRP (B) OL-5 (C) OLP (D) OL-6
Q173- No Tension होने पर Pilot Lamp जलता है।
(A) ABB OFF Light (B) BCFL (C) ARTL (D) MSTL
Q174- BIR (Buchholz Indication Relay) Trip होने परः-
(A) MSTL (B) ABB OFF Light (C) ARTL (D) BCFL
Q175- CRIC Close करने पर TLTE की घटना होने पर Pilot Lamp जलेगा।
(A) ABB OFF (B) RFBL (C) MSTL (D) None of the above
Q176- EFRP निम्न में से कौन सा रिले है।
(A) Intensity Relay (B) Voltage Relay (C) Temprature Relay (D) None of the above
Q177 Main Compressor Safety Valve Setting है।
(A) 7.5 kg/cm² (B) 8 kg/cm² (C) 7.75 kg/cm² (D) 8.5 kg/cm²
Q178- Control Governor (CG) की मजजपदह है। (Cut in range)
(A) 5 kg/cm² (B) 4.2 kg/cm² (C) 3.2 kg/cm² (D) 6 kg/cm²
Q179- Auxiliary Circuit - II Main Fuse की क्षमता है।
(A) 100 A (B) 65 A (C) 32 A (D) 50 A
Q180- Oil Pump Phase MCB की क्षमता है।
(A) 5 A (B) 10 A (C) 15 A (D) 20 A
Q181- Rediator Fan-1 Motor Phase MCB की क्षमता है।
(A) 5 A (B) 10 A (C) 20 A (D) 15 A
Q182- Fan Phase की Fuse की क्षमता :-

(A) 15 A (B) 10 A (C) 50 A (D) 63 A

Q183- MEMU/EMU में Gear Ratio होता है।

(A) 16:64 (B) 20:91 (C) 20:81 (D) None of the above

Q184- Brake Pull Rod MEMU/EMU के एक बोगी में संख्या है।

(A) 4 (B) 8 (C) 16 (D) 32

# QUESTION BANK ON DIESEL LOCOMOTIVES



1. HHP Locomotive is also known as –
   a) EMD Locomotive,
   b) GM Locomotive, **Answer - d**
   c) G4/P4 Locomotive,
   d) All of the above.

2. WDG4D is specially design for –
   a) Passenger Service,
   b) Goods Service, **Answer - b**
   c) Mixed Service,
   d) None of the above.

3. WDG4 is a –
   a) Single Cab Loco,
   b) Dual Cab Loco, **Answer - a**
   c) Dual Cab Loco with Disc Brake,
   d) Dual Cab Loco with Hotel Load.

4. How many teeth are in HHP Locomotive Crank Shaft Gear?
   a) 58,
   b) 64, **Answer - c**
   c) 79,
   d) 113.

5. Left Side Cam Gear is driven by –
   a) Right Side Cam Gear,
   b) No. 1 Idler Gear, **Answer - c**
   c) No. 2 Idler Gear,
   d) Crank Shaft Gear.

6. Maximum speed of WDG4D Locomotive over Central Railway is –
   a) 100 kmph,
   b) 105 kmph, **Answer - a**
   c) 135 kmph,
   d) 160 kmph.

7. How many cylinders are in HHP Loco Engine?
   a) 8,
   b) 12, **Answer - c**
   c) 16,
   d) None of the above.

8. Torsional Damper is fitted on the –
   a) Front End of the Engine,
   b) Rear End of the Engine, **Answer - a**
   c) Front and Rear End of the Engine,
   d) None of the above.

9. Don't pour _____ in the HHP Loco.
   a) DM Water,
   b) Raw Water, **Answer - b**
   c) Distilled Water,
   d) All of the above.

10. TRD Timing of 710G3 TSC is –
    a) Minimum 30 seconds,
    b) Minimum 50 seconds, **Answer - b**
    c) Minimum 60 seconds,
    d) Minimum 180 seconds.

11. Crank Shaft to TSC Speed ration is –
    a) 16.7:1, b) 17:77, c) 17:90, d) None of the above. **Answer - d**

12. Vibration Damper is rotate in each direction about –
    a) 23 Degree, b) 10 Degree, c) 180 Degree, d) 360 Degree. **Answer – b**

13. How many rollers are fitted in the clutch assembly?
    a) 8, b) 12, c) 16, d) 18. **Answer - c**

14. Modified Water Pump has –
    a) Taper bearing,
    b) Ball bearing, **Answer - b**
    c) Both taper as well as ball bearing,
    d) None of the above.

15. To operate sander, air supply is received from –
    a) MR-1 Pressure,
    b) MR-2 Pressure, **Answer - a**
    c) BP Pressure,
    d) B.C. Pressure.

16. During setting of TDC Pointer, which Power Assembly is kept at BDC?
    a) No-1, b) No-16, c) No-8, d) No-9 **Answer - a**

17. In HHP Loco, exhaust manifolds have following nos. of chamber assembly –
    a) 4, b) 7, c) 8, d) 5 **Answer - a**

18. Low viscosity indicates –
    a) Mixing of water in lube,
    b) Mixing of fuel in lube oil, **Answer - b**
    c) Mixing of carbon contents in lube oil,
    d) None of these.

19. In HHP Locomotive bail of ring is provided on –
    a) Auto Brake Handle,
    b) Driver's backup valve handle, **Answer - c**
    c) Direct brake handle,
    d) None of the above.

20. Accessory Drive coupling retaining bolt is torque at –
    a) 450 ft-lbs, b) 650 ft-lbs, c) 250 ft-lbs, d) 750 ft-lbs. **Answer - b**

21. Exhaust valve open at –
    a) 23 Degree after TDC,
    b) 109 Degree after TDC, **Answer - b**
    c) 180 Degree after TDC,
    d) 43 Degree before BDC.

22. What is the full form of EMDEC?
    a) Electro-Motive Diesel Engine Control,
    b) Electro-Motive Division of Engine Control, **Answer - a**
    c) Electro-Motive Diesel and Electric Control,
    d) None of the above.

23. Length of WDG4D Locomotive is –
    a) 22.98 meters,
    b) 21.24 meters, **Answer - a**
    c) 21.7 meters,
    d) None of the above.

24. To operate MVCC, Air Supply is received from –
    a) MR-1 Pressure,
    b) MR-2 Pressure, **Answer - a**
    c) BP Pressure,
    d) B.C Pressure.

25. After changing of power assembly which of the following operation is not performed?
    a) Injector Timing,
    b) "Pee" pipe alignment, **Answer - d**
    c) Lead wire test,
    d) None of the above.

26. In HHP Locomotive mainly which Governor is fitted –

a) Woodward Governor,
b) MCBG, **Answer - a**
c) EH Governor,
d) None of the above.

27. HHP Locomotive has a –
a) Two stroke engine,
b) Four stroke engine, **Answer - a**
c) Multi stroke engine,
d) None of the above.

28. In HHP Locomotive, TSC is fitted in the –
a) Front end of the engine,
b) Rear end of the engine, **Answer - b**
c) Front or Rear of the engine,
d) None of the above.

29. During EPD testing at idle engine normally shut down in –
a) 120 second, b) 40 second, c) 60 second, d) 35 second. **Answer - c**

30. EPU Fitted on –
a) Harmonic damper,
b) Starter motor bracket, **Answer - b**
c) Main alternator,
d) Companion alternator.

31. No. of Radiator fitted in WDP4D Locomotive is –
a) 1, b) 2, c) 4, d) None of the above. **Answer - b**

32. Radiator fan mounting bolt is torque at –
a) 450 ft-lbs, b) 100 ft-lbs, c) 250 ft-lbs, d) 50 ft-lbs. **Answer - b**

33. During injector rack setting governor rack should be kept at –
a) 1.00", b) 1.02", c) 1.96", d) 0.62". **Answer - a**

34. Power assembly is consisting of –
a) Cylinder liner,
b) Cylinder head, **Answer - d**
c) Piston, ring, carrier & con rod assembly,
d) All of the above.

35. Liner of HHP Locomotive made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - a**
c) Stainless steel with chrome plated,
d) Cast iron.

36. Which type of CBC is fitted in WDG4D Locomotive?
a) E-type, b) F-type, c) H-type, d) None of the above. **Answer - a**

37. At present, which of the following crankcase oils are approved for application in HHP Diesel Engines?
a) Servo RR 520 MG of M/s IOC,
b) MAX RR 517 M of M/s BPC, **Answer - d**
c) HP RR 817 M of M/s HPC,
d) All of the above.

38. Scavenging pump is a –
a) Reciprocating pump,
b) Centrifugal pump, **Answer - c**
c) Positive displacement with helical gear type pump,
d) None of the above.

39. No. of starter motor fitted in WDP4D Locomotive is –
a) 1, b) 2, c), 4, d) None of the above. **Answer - b**

40. Starter Motors of HHP Locomotive is –
a) AC Motor,

b) DC Series Motor,
c) 3 phase AC Motor, **Answer - b**
d) None of the above.

41. Starter motors of HHP Locomotive is connected in –
a) Series, b) Parallel, c) Series-parallel, d) None of the above. **Answer - b**

42. Starter motor used in HHP Locomotive is –
a) 32 volt motors, b) 64 volt motors, **Answer - b**
c) 72 volts motors, d) None of the above.

43. For starting of HHP Locomotive –
a) Single electric motor is used,
b) Duel electric motor is used, **Answer - b**
c) Duel air starting motor is used,
d) None of the above.

44. Rating of starting fuse is –
a) 400A, b) 800A, c) 500A, d) None of the above. **Answer - b**

45. Starting fuse is used –
a) Only during engine starting,
b) Only during engine running, **Answer - a**
c) Only during engine shutdown,
d) None of the above.

46. How many piston rings are fitted in the HHP Engine Piston?
a) 2, b) 4, c) 5, d) 6. **Answer - d**

47. In MEDHA Control System if starting fuse is removed during running then -
a) Engine will shut down,
b) Engine will come to idle, **Answer - d**
c) TE will come to Zero,
d) There will be no effect on engine.

48. Purpose of starting fuse is –
a) To protect the LV (Low voltage) control circuit,
b) To protect the HV (High voltage) control circuit, **Answer - c**
c) To protect the starter motors from current overload,
d) All of the above.

49. Black light test is related to –
a) Power assembly,
b) Fuel system, **Answer - b**
c) Turbo supercharger,
d) Lube oil system.

50. No of teeth in starter motor pinion is –
a) 10, b) 15, c) 11, d) None of the above. **Answer - c**

51. During engine starting, do not hold the fuel prime/engine start switch (FP/ES) to ENGINE START position for more than –
a) 20 seconds, b) 30 seconds,
c) 60 seconds, d) None of the above. **Answer - a**

52. Backlash to be maintained in between ring gear and starter motor pinion is –
a) 0.008”-0.016”, b) 0.007”-0.025”,
c) 0.015”-0.040”, d) 0.020”-0.030” **Answer - c**

53. Compressor of HHP Locomotive is –
a) Electrical driven,
b) Mechanical driven, **Answer - b**
c) Electromagnetic driven,
d) None of the above.

54. What is the meaning of starting abutment?
a) It means starting motor pinion not coming out,
b) It means starting motor pinion not-disengaging with ring gear, **Answer - a**

c) It means starting motor pinion not rotating,
d) All of the above.

55. Starting abutment message will come on display if – **Answer - a**
a) STA contactor not pick up within 0.3 seconds after starting is initiated,
b) STA contactor not pick up within 0.5 seconds after starting is initiated,
c) STA contactor not pick up within 3.0 seconds after starting is initiated,
d) None of the above.

56. Which logic is implemented for starter motor drop out? **Answer - d**
a) After releasing of Engine Start (FP/ES) switch from Engine Start position, starter motors will drop,
b) After reaching engine rpm of 200 rpm, starter motor will drop,
c) If Engine Start switch kept more than 20 seconds in start position then starter motor will drop,
d) All of the above. .

57. Starter motor will not drop –
a) If Engine Start switch kept more than 20 seconds in start position,
b) If STA & ST contactor tip is weld, **Answer - b**
c) Until Engine not crank,
d) All of the above.

58. Full Form of STA –
a) Starting Contactor,
b) Starting Auxiliary Contactor, **Answer - b**
c) Starting Relay,
d) None.

59. Full Form of ST –
a) Starting Contactor,
b) Starting Auxiliary Contactor, **Answer - a**
c) Starting Relay,
d) None.

60. During starting which contactor is picking up at first?
a) ST,
b) STA, **Answer - b**
c) Depend upon the last sequence of pick up,
d) Any One.

61. Full Form of SM1&2 –
a) Starting Motor Contactor 1&2,
b) Starting Module 1& 2, **Answer - c**
c) Starting Motor 1& 2,
d) None.

62. Each Starting Motor solenoid assembly has –
a) A pickup coil (PU),
b) a hold-in coil (HOLD), **Answer - d**
c) a set of contacts (SM),
d) All of the above.

63. Compressor efficiency test is checked with –
a) 7.14 mm choke, b) 7.50 mm choke,
c) 7.91 mm choke, d) None. **Answer - a**

64. In HHP Locomotive Inlet port close at –
a) 43.5 Degree before BDC,
b) 43.5 Degree after BDC, **Answer - b**
c) 107.5 Degree after TDC,
d) 67 Degree after BDC.

65. Setting of Water pressurized cap of HHP Locomotive is –
a) 7 psi, b) 12 psi, c) 15 psi, d) 20 psi. **Answer - a**

66. In CCB System, Air supply is received from –
a) MR-1, b) MR-2, c) MR-4, d) None. **Answer - b**

67. During pre & post lubrication –
    a) Only main bearing and con rod bearing is lubricated,
    b) Only TSC bearing and gear train is lubricated, **Answer - c**
    c) Only TSC bearing and gear train is lubricated,
    d) All of the above.

68. Fuel oil primary filter conditioning gauge having –
    a) Green Zone, b) Yellow Zone, c) Red Zone, d) All. **Answer - d**

69. DBI Testing of MR Tank of HHP Locomotive is done on interval of –
    a) 24 months, b) 36 months, c) 48 months, d) 06 years. **Answer - c**

70. In HHP Locomotive, TSC Spin on filter is fitted on –
    a) Right Side, Front End of the Engine,
    b) Right Side, Rear End of the Engine, **Answer - b**
    c) Left Side, Front End of the Engine,
    d) None.

71. In HHP Locomotive, BP Pressure is set at –
    a) 5.0 ± 0.1 kg/cm$^2$, b) 5.1 ± 0.1 kg/cm$^2$,
    c) 5.2 ± 0.1 kg/cm$^2$, d) None. **Answer - a**

72. In HHP Locomotive compressor oil to be checked at –
    a) Engine run and idle condition,
    b) Engine shutdown condition, **Answer - a**
    c) Engine run and 8$^{th}$ Notch condition,
    d) Any of the above.

73. In HHP Locomotive lube oil level to be checked at –
    a) Engine run and idle condition,
    b) Engine shutdown condition, **Answer - a**
    c) Engine run and 8$^{th}$ Notch condition,
    d) Any one of the above.

74. In HHP Locomotive Epicyclic gear train is found in –
    a) Turbocharger,
    b) Accessory drive gear train, **Answer - a**
    c) Camshaft drive gear train,
    d) None.

75. WDP4D Locomotive fitted with _____ rotating engine –
    a) Left Hand,
    b) Right Hand, **Answer - a**
    c) Both Left hand as well as Right Hand,
    d) None.

76. Injector hand control lever is also known as –
    a) Lay shaft,
    b) Jacking shaft, **Answer - a**
    c) Power shaft,
    d) None.

77. How many main bearings are in HHP Locomotive?
    a) 8, b) 9, c) 10, d) 16. **Answer - c**

78. Upto which notch HHP Locomotive can be raised without load (GF Off condition) –
    a) 4$^{th}$ Notch, b) 5$^{th}$ Notch, c) 6$^{th}$ Notch, d) 7$^{th}$ Notch. **Answer - a**

79. MR Efficiency test is related to –
    a) Power assembly,
    b) MR Tank, **Answer - d**
    c) Turbo Supercharger,
    d) Compressor.

80. Marking range on governor terminal shaft scale is –
    a) 1.96”-0.62”, b) 1.00”-0.62”, c) 1.02”-1.96”, d) 1.02”-0.62”. **Answer – a**

81. No. 9 -16 Power Assembly are –
    a) Fork Type,
    b) Blade Type, **Answer - a**
    c) Fork and Blade both are in mixed arrangement,
    d) None.

82. No. 1-8 Power Assembly are –
    a) Type,
    b) Blade Type, **Answer - b**
    c) Fork and Blade both are in mixed arrangement,
    d) None.

83. In HHP Locomotive Aux. Gen. drive gear is driven by –
    a) Right side cam gear,
    b) Left side cam gear, **Answer - a**
    c) No. 2 idler gear,
    d) None.

84. How many compression rings are fitted in the HHP Engine Piston?
    a) 1, b) 2, c) 3, d) 4. **Answer - d**

85. In HHP Locomotive pinion end TM bearing are lubricated by –
    a) RR460, b) Grease c) Cardium compound, d) None. **Answer - a**

86. In HHP Locomotive both side cam gear rotate –
    a) In the same direction,
    b) In the opposite direction, **Answer - b**
    c) In same as crankshaft rotation direction,
    d) None.

87. In HHP Locomotive, what is the relation between crankshaft & camshaft rpm?
    a) Due to two stroke engine, rpm of camshaft = rpm of crankshaft. **Answer -a**
    b) Due to two stroke engine, rpm of camshaft = $^1/_2$ of the rpm of crankshaft.
    c) Due to four stroke engine, rpm of camshaft = ½ of the rpm of right crankshaft.
    d) None.

88. No. of critical main bearing in HHP Locomotive are –
    a) 2, b) 4, c) 5, d) 6. **Answer - b**

89. Water drain cock is located in –
    a) Accessory room,
    b) Under truck at loco right side, **Answer - a**
    c) Under truck at loco right side,
    d) None.

90. HHP Locomotive is a –
    a) Left Hand Driven Locomotive.
    b) Right Hand Driven Locomotive. **Answer - a**
    c) Both Hand Driven Locomotive.
    d) None of the above.

91. ECC – 4 is found in –
    a) WDP4, b) WDG4, c) WDP4B, d) WDG4D. **Answer - d**

92. Torque valve of Alternator mounting bolt is –
    a) 295 ft-lbs, b) 650 ft-lbs, c) 1400 ft-lbs, d) 2400 ft-lbs. **Answer - c**

93. Which Oil is filled in HHP Loco Fuel Tank?
    a) High Speed Diesel Oil,
    b) Arctic Diesel Oil, **Answer - a**
    c) Synthetic Diesel Oil,
    d) All.

94. What is the height of Rail Guard of HHP Locomotive from Rail Level?
    a) 4½", b) 5½", c) 6½", d) None. **Answer - a**

95. How many Air Inlet Ports are in a power assembly?

a) 8, b) 12, c) 16, d) 18. **Answer - d**

96. Compressor of HHP Locomotive is a –
a) Rotary compressor,
b) Reciprocating compressor, **Answer - b**
c) Centrifugal compressor,
d) Any one of the above.

97. OSTA Operation of HHP Locomotive is checked in which schedule?
a) T-30 & above,
b) T-90 & above, **Answer - b**
c) T-180 & above,
d) T-Yearly & above.

98. What is the purpose of torsional damper in HHP Locomotive?
a) To absorb crank shaft torsional vibration.
b) To absorb vibration of the locomotive. **Answer - a**
c) To absorb vibration of the main alternator.
d) None of the above.

99. No. of teeth in Sun Gear is –
a) 37, b) 26, c) 58, d) 131. **Answer - a**

100. How many Lube Oil by-pass valves are fitted in HHP Locomotive Lube Oil System?
a) 1, b) 2, c) 3, d) None. **Answer - c**

101. What is the limit of crush height?
a) 0.007”-0.025”, b)0.008”-0.017”,
c) 0.016”-0.039”, d) 0.006”-0.018”. **Answer - b**

102. What is the height of WDP4 Locomotive (over horn)?
a) 4.22 meters, b) 4.25 meters, c) 4.20 meters, d) None. **Answer - a**

103. In HHP Locomotive exhaust valve dropping at 107.5° after TDC is –
a) 0.020”, b) 0.023”, c) 0.026”, d) 0.032”. **Answer - c**

104. How many inlet valves are fitted in a power assembly?
a) 2, b) 3, c) 4, d) None. **Answer - d**

105. What is the compression ratio of HHP Locomotive?
a) 11.5:1, b) 12.5:1, c) 16:1, d) None. **Answer – c**

106. EPD Operation of HHP Locomotive is checked in which schedule?
a) T-30 & above,
b) T-90 & above, **Answer - a**
c) T-180 & above,
d) T-Yearly & above.

107. In HHP Locomotive fuel injection start at –
a) 47° before the BDC,
b) 0.8° after the BDC,
c) 15.8° before the BDC, **Answer - c**
d) 16.6° before the BDC.

108. Companion alternator nominal output voltage is –
a) 230 V AC, b) 315 V AC, c) 415 V AC, d) None. **Answer - a**

109. How many lube oil pumps are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 4. **Answer - d**

110. Full Form of BL Key is –
a) Button Lever Key,
b) Block Lever Key, **Answer - a**
c) Bench Lock Key,
d) None.

111. TE Limit Value is –
a) 200 KN, b) 250 KN, c) 294 KN, d) None. **Answer - c**

112. Blades of dynamic brake grid fan is made of –
a) Iron, b) Aluminum, c) Steel, d) Magnalium. **Answer - b**

113. Distance between two side buffers is –
a) 1435 mm, b) 1676 mm, c) 1956 mm, d) None of these. **Answer - c**

114. Fuel Oil suction strainer is located in the -
a) Loco Left Side,
b) Loco Right Side, **Answer - a**
c) Engine Left Side,
d) None of these.

115. Normal LR dropping permitted up to –
a) 0.75, b) 0.85, c) 0.95, d) None of these. **Answer - b**

116. Initial torque value of Crab Nut is –
a) 480 ft-lbs, b) 400 ft-lbs, c) 165 ft-lbs, d) 210 ft-lbs. **Answer - b**

117. Piston Thrust Washer minimum permissible Thickness is –
a) 4.67 mm, b) 4.44 mm, c) 1.73 mm, d) None of these. **Answer - b**

118. In HHP Locomotive, maximum percentage of total no. of radiator tubes make dummy is –
a) 0.02, b) 0.04, c) 0.05, d) 0.1. **Answer - a**

119. In spectrographic analysis of engine lube oil normal range of Sodium (Na) is –
a) 0 – 75 ppm, b) 0 – 50 ppm, c) 0 -30 ppm, d) 0 – 20 ppm. **Answer - c**

120. In HHP Locomotive which model compressor is used –
a) WLN, b) WLG, c) WBG, d) WBO. **Answer - a**

121. Which model diesel engine is fitted in HHP Locomotive?
a) 645 G3B, b) 710 G3B, c) 710 G3C, d) None of these. **Answer - b**

122. "Finger tightness check" is related to –
a) Power assembly,
b) Fuel system, **Answer - a**
c) Turbo Supercharger,
d) Lube Oil System.

123. In HHP Locomotive, handbrake apply in which wheel?
a) R1 & R2, b) R4 & R5, c) L1 & L2, d) L4 & L5. **Answer - b**

124. WLN model compressor has –
a) 3 cylinders, b) 4 cylinders, c) 6 cylinders, d) None of these. **Answer - a**

125. WLN model compressor has –
a)Two low pressure and one high pressure cylinder,
b)Two high pressure and one low pressure cylinder, **Answer - a**
c)Four low pressure and two high pressure cylinder,
d)Four high pressure and two low pressure cylinder.

126. How many "labyrinth" seals are used in HHP TSC?
a) 1, b) 2, c) 3, d) 4. **Answer - c**

127. How many spin on filters are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 3 or 4. **Answer - d**

128. Roller clutch test is done at –
a) 269 rpm, b) 400 rpm, c) 700 rpm, d) 904 rpm. **Answer - c**

129. TSC of HHP Locomotive is cooled by –
a) Water, b) Lube oil, c) Air, d) Natural Cool. **Answer - b**

130. How many brake cylinders are fitted in HHP Locomotive?
a) 4, b) 6, c) 8, d) 16. **Answer – c**

131. How many 10" expansion joint are fitted in HHP Locomotive?
a) 1, b) 3, c) 4, d) None of these. **Answer - a**

132. HOD operates when –
a) Cooling water temp rises to 121° - 126° c.
b) Lube Oil temp rises to 121°c – 126°c. **Answer - b**
c) Fuel Oil temp rises to 121°c - 126°c.
d) None of the above.

133. How many dowels are in fork rod and basket assembly?
a) 1, b) 2, c) 3, d) 4. **Answer - d**

134. Fork rod power assembly is located in which side of engine?
a) Left side, b) Right side, c) Both side, d) None of these. **Answer - a**

135. Blade rod power assembly is located in which side of engine?
a) Left side, b) Right side, c) Both side, d) None of these. **Answer - b**

136. What is the pick-up time between one radiator fan to another?
a) 10 seconds, b) 20 seconds, c) 30 seconds, d) None of these. **Answer - b**

137. Which one is not required for injector rack setting?
a) Concerned power assembly to be kept at TDC.
b) Governor rack to be locked at 1". **Answer - a**
c) Rack setting tool to be required.
d) Rotate injector rack adjusting lock nut clockwise direction to lose it.

138. Which type of water pump is fitted in HHP Locomotive?
a) Centrifugal type,
b) Reciprocating type, **Answer - a**
c) positive displacement type,
d) None of these.

139. Oil separator of HHP Locomotive is cleaned in which schedule?
a) T-30 & above,
b) T-90 & above, **Answer - b**
c) T-180 & above,
d) T-Yearly & above.

140. How many oil control rings are fitted in the HHP Engine piston?
a) 1, b) 2, c) 3, d) 4. **Answer - b**

141. What is the discharge capacity of FPM?
a) 5 GPM, b) 7 GPM, c) 10 GPM, d) None of these. **Answer - b**

142. Maximum permissible height of Diesel Locomotive over Mumbai division is –
a) 4270 mm, b) 4280 mm, c) 4290mm, d) None of these. **Answer - a**

143. Minimum engine cranking speed needed for starting is –
a) 45 – 50 rpm, b) 60 – 75 rpm, c) 75 – 90 rpm, d) 100 – 120 rpm. **Answer -a**

144. Maximum speed of WDP4 Locomotive is –
a) 100kmph, b) 105kmph, c) 135kmph, d) 160kmph. **Answer - d**

145. What is the value of backlash between water pump and governor drive gear?
a) 0.007" – 0.025",
b) 0.008" – 0.016", **Answer - b**
c) 0.010" - 0.025",
d) 0.006: - 0.018".

146. What is the minimum engine lube oil viscosity (KV) of HHP Locomotive?
a) 12.8 cst at 100°c,
b) 13.0 cst at 100°c, **Answer - b**
c) 18.8 cst at 100°c,
d) None of these.

147. TRD is related to –
a) Lube oil cooler, b) Radiator, **Answer - c**
c) Turbo supercharger, d) Compressor.

148. What is the value of back lash between auxiliary generator drive gears and cam gear?
a) 0.007" – 0.025",
b) 0.006" – 0.016", **Answer - c**
c) 0.010" – 0.025",
d)0.006" – 0.018".

149. Top con-rod bearing shell is changed after –
a) 2 years, b) 3 years, c) 6 years, d) None of these. **Answer - b**

150. How many 14" expansion joint is fitted in HHP Locomotive?
a) 1, b) 3, c) 4, d) None of these. **Answer - b**

151. Thrust collar are fitted in –
a) No. 5 & 6 main bearing,
b) No. 1 & 9 main bearing, **Answer -a**
c) No. 1 & 10 main bearing,
d) None.

152. Turbine inlet scroll is –
a) Welded assembly made from "chrome – moly" plate.
b) Forged assembly made from "chrome – moly" plate. **Answer - a**
c) Welded assembly made from C.R.C.S.
d) None of the above.

153. In HHP Locomotive Lube Oil level to be checked at –
a) 72°c temperature,
b) 52°c temperature, **Answer - a**
c) 62°c temperature,
d) None of these.

154. In HHP Locomotive, maximum fuel is injected at –
a) 9.6° before the TDC,
b) 0.8° after the TDC, **Answer - a**
c) 15.8° before the TDC,
d) 16.6° before TD

155. How many EBT are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 4. **Answer - a**

156. In HHP Locomotive, compressor overhaul on –
a) T – 360 schedules,
b) T – 720 schedules, **Answer - d**
c) 3 yearly schedules,
d) 6 yearly schedules.

157. Fireman emergency brake handle is located at –
a) Both control console / desk,
b) Behind LP seat, **Answer - a**
c) Behind ALP seat,
d) None of these.

158. Fuel Tank of HHP Locomotive is –
a) Detachable,
b) Non-detachable, **Answer - a**
c) Both detachable & non-detachable,
d) None.

159. In HHP Locomotive fuel injection end at –
a) 47° before the BDC, b) 0.8° after the TDC,
c) 15.8° before the TDC, d) 16.8° before the TDC. **Answer – b**

160. What is the low idle RPM of the WDP4D Locomotive engine?
a) 200, b) 269, c) 350, d) 904 **Answer - a**

161. What is the height of cattle guard of HHP Locomotive from rail level?
a) $4^1/_2$“, b) $5^1/_2$”, c) $6^1/_2$”, d) None of these. **Answer - c**

162. How many after cooler are fitted in HHP Locomotive?
a) 1, b) 2, c) 4, d) None of these. **Answer - b**

163. What is the delivery rate of soak pump in HHP engine?
a) 27 LPM, b) 57 LPM, c) 75 LPM, d) None of these. **Answer - b**

164. Weight of WDG4D Locomotive is –
a) 126 T, b) 123 T, c) 121.2 T, d) 130.2 T. **Answer - d**

165. Which oil is fitted in HHP Locomotive compressor?
a) RR 460, b) SP 100, c) RR 606, d) SP 57. **Answer - b**

166. POP Test is related to –
a) Power assembly,
b) Fuel system, **Answer - b**
c) Turbo supercharger,
d) Lube oil system.

167. No. of teeth in No. 1 idler Gear is –
a) 58, b) 64, c) 69, d) 79. **Answer - b**

168. In HHP Locomotive compressor is cooled by –
a) Water, b) Lube oil, c) Air, d) Natural cool. **Answer - a**

169. Pre-lubrication is related to –
a) Power assembly,
b) Fuel system, **Answer - d**
c) Turbo supercharger,
d) Lube oil system.

170. Crush height is measured by –
a) Vernier caliper,
b) Outside micrometer, **Answer - c**
c) Filler gauge,
d) Height gauge.

171. In HHP Locomotive specified limit of exhaust gas temperature is –
a) 315°c - 400°c, b) 435°c - 535°c,
c) 490°c - 590°c, d) None of these. **Answer - a**

172. Torque value of Exhaust manifold to expansion joint bolts is –
a) 50 ft-lbs, b) 75 ft-lbs, c) 80 ft-lbs, d) 190 ft-lbs. **Answer - c**

173. In spectrographic analysis of engine lube oil, high range of Copper (Cu) indicates –
a) Internal water leakage,
b) inefficient air filtration, **Answer - d**
c) cylinder liner wear,
d) bush & bearing wear.

174. Kinematic viscosity is checked at –
a) 40°c temp, b) 100°c temp, c) 40°f temp, d) both a & b. **Answer - d**

175. Unit of Kinematic viscosity is –
a) CST, b) UST, c) MST, d) PPM. **Answer - a**

176. In HHP Locomotive compressor lube oil pump is –
a) Belt driven,
b) Gear driven, **Answer - b**
c) Chain and sprocket driven,
d) All of these.

177. What is the idle notch RPM of the WDP4D Locomotive engine?
a) 269, b) 904, c) 954, d) 1050. **Answer - a**

178. How many marks are in HHP Loco Compressor oil dipstick (modified) gauge?
a) 2, b) 3, c) 4, d) None of these. **Answer - b**

179. Off load condition TSC is driven up to _____ through gear train.
a) 5th Notch, b) 6th Notch, c) 7th Notch, d) 8th Notch. **Answer - d**

180. Which control system is used in HHP Locomotive?
a) EMD Control System,
b) Medha Control System, **Answer - d**
c) Siemens Control System,
d) All.

181. Shot peening process is done ins piston ring to improve –
a) Fatigue strength,
b) Tensile strength, **Answer - a**
c) Compressive strength,
d) None of the above.

182. In MEDHA control system, during pre-lubrication TLPM run for –
a) 120 seconds, b) 900 seconds,
c) 2100 seconds, d) None of these. **Answer - b**

183. Gear case oil capacity of WDP4D Locomotive is –
a) 7.5 ltrs, b) 8.5 ltrs, c) 9.5 ltrs, d) 9.8 ltrs. **Answer - b**

184. Gear case oil capacity of WDG4D Loco is –
a) 7.5 ltrs, b) 8.5 ltrs, c) 9.5 ltrs, d) 9.8 ltrs. **Answer - a**

185. In HHP Locomotive value of cylinder head valve seat angle is –
a) 30°00'-30°15',
b) 45°00-45°15', **Answer - a**
c) 60°00'-60°15',
d) None of the above.

186. POP Test is conducted to –
a) Check the performance of injector.
b) Check the performance of TSC. **Answer - a**
c) Check the performance of lash adjuster.
d) Check the performance of air dryer.

187. Water leakage from air box drain pipe indicates –
a) Water inlet tube may be cracked.
b) Cylinder head / liner may be cracked. **Answer - d**
c) After cooler tube may be punctured.
d) All of the above.

188. VCD Cycle consists of –
a) T0 – Vigilance cycle.
b) T1 & T2 – Warning cycle. **Answer - d**
c) T3 & T4 – Penalty brake cycle & Penalty brake reset.
d) All of the above.

189. Minimum lube oil level of HHP Loco compressor is –
a) 5 ltrs, b) 6 ltrs, c) 8 ltrs, d) 9.8 ltrs. **Answer - b**

190. T0 – VCD cycle is called –
a) Vigilance cycle,
b) Warning cycle, **Answer - a**
c) Penalty brake cycle,
d) All of these.

191. T1 – VCD cycle is called –
a) Vigilance cycle,

b) Warning cycle,
c) Penalty brake cycle, **Answer - b**
d) All of these.

192. T2 – VCD cycle is called –
a) Vigilance cycle,
b) Warning cycle, **Answer - b**
c) Penalty brake cycle,
d) All of these.

193. T3 – VCD cycle is called –
a) Vigilance cycle,
b) Warning cycle, **Answer - c**
c) Penalty brake cycle,
d) All of these.

194. T4 – VCD cycle is called –
a) Vigilance cycle,
b) Warning cycle, **Answer - c**
c) Penalty brake reset cycle,
d) All of these.

195. Duration of T0 Cycle is –
a) 60 second, b) 8 ± 2 second,
c) 34 ± 2 second, d) None of these. **Answer - a**

196. Duration of T1 Cycle is –
a) 60 second, b) 8 ± 2 second,
c) 34 ± 2 second, d) None of these. **Answer - b**

197. Duration of T3 Cycle is –
a) 60 second, b) 8 ± 2 second,
c) 34 ± 2 second, d) None of these. **Answer - b**

198. At present, which of the following crankcase oils are approved for application in HHP Diesel engines?
a) Servo RR 520 MG & RR 606 MG Plus II of M/s IOC,
b) MAX RR 517 M of M/s BPC, **Answer - d**
c) HP RR 817 M of M/s HPC,
d) All of these.

199. In HHP Locomotive duration of suction period is –
a) 87°, b) 113°, c) 16.6°, d) 138°. **Answer - a**

200. FPM of HHP Locomotive is a –
a) AC Motor,
b) DC Series Motor, **Answer - c**
c) 3 phase AC Motor,
d) None of these.

201. Air dryer is fitted -
a) Before MR1 Reservoir,
b) Between MR1 & MR2 Reservoir, **Answer - b**
c) Between MR2 & CCB System,
d) After MR2 Reservoir.

202. Shot peening is related to –
a) Lube oil cooler,
b) Piston ring, **Answer - b**
c) Turbo supercharger,
d) Clutch gear assembly.

203. Final torque value of crab nut is -
a) 250 ft-lbs, b) 400 ft-lbs, c) 450 ft-lbs, d) 2400 ft-lbs. **Answer - d**

204. Crush height is related to –
a) Power assembly,

b) Fuel system,
c) Turbo supercharger, **Answer - a**
d) Lube oil system.

205. In spectrographic analysis of engine lube oil normal range of copper (Cu) is –
a) 0 – 75 ppm, b) 0 – 50 ppm, c) 0 – 20 ppm, d) 0 – 15 ppm. **Answer - a**

206. Compressor lube oil dipstick is located on the –
a) Left side of the Locomotive.
b) Right side of the Locomotive. **Answer - a**
c) Both side of the Locomotive.
d) None of these.

207. Length of WDP4D Locomotive is –
a) 22.98 meters, b) 21.24 meters,
c) 21.7 meters, d) None of these. **Answer - a**

208. In HHP Locomotive compressor air intake filter is changed during –
a) T-30 & above schedule.
b) T-60 & above schedule. **Answer - d**
c) T-90 & above schedule.
d) T-180 & above schedule.

209. Free air delivery of GD compressor is –
a) 4000 LPM, b) 5000 LPM, c) 6000 LPM, d) 9000 LPM. **Answer - c**

210. OSTA of HHP (4500 HP) locomotive is set at –
a) 1035-1050 rpm,
b) 1035-1075 rpm, **Answer - c**
c) 1085-1100 rpm,
d) 1185-1220 rpm.

211. OSTA of HHP (4000 HP) locomotive is set at –
a) 1035-1050 rpm, b) 1035-1075 rpm,
c) 1085-1100 rpm, d) 1185-1220 rpm. **Answer - a**

212. HHP Locomotive brake block is made of –
a) Cast Iron, b) Fiber, c) Composite material, d) None of these. **Answer - c**

213. In HHP Locomotive pilot stud of liner is located at –
a) 05 o'clock, b) 06 o'clock, c) 12 o'clock, d) 13 o'clock. **Answer - a**

214. Maximum speed of WDG4D Locomotive is –
a) 100 kmph, b) 105 kmph, c) 135 kmph, d) 160 kmph. **Answer - b**

215. In HHP Locomotive, when OSTA is set, reset handle rest at –
a) 11' O clock position,
b) 13' O clock position, **Answer - a**
c) 12' O clock position,
d) None of these.

216. In HHP Locomotive Lube Oil Strainer is fitted on –
a) Right side, Front end of the Engine,
b) Right side, Rear end of the Engine. **Answer - a**
c) Left side, Front end of the Engine.
d) Left side, Rear end of the Engine.

217. In HHP Locomotive, bearing to crankpin maximum clearance is –
a) 0.010", b) 0.015", c) 0.020", d) 0.0205". **Answer - b**

218. In HHP Locomotive Brake Cylinder pressure is adjusted at –
a) 1.8kg/cm$^2$, b) 3.5kg/cm$^2$, c) 5.2kg/cm$^2$, d) None of these. **Answer - c**

219. In HHP Locomotive compression stroke end at –
a) BDC, b) 43.5° after BDC, c) TDC, d) 67° after TDC. **Answer - c**

220. Torque the rocker arm adjusting screw lock nut approximately –

a) 70 – 75 ft-lbs, b) 75 – 80 ft-lbs,
c) 80 – 85 ft-lbs, d) 85 – 90 ft-lbs. **Answer - c**

221. POH of HHP Locomotive done after –
a) 8 years, b) 12 years, c) 15 years, d) 18 years. **Answer - d**

222. Cylinder head seat ring minimum permissible thickness is –
a) 4.67mm, b) 4.44 mm, c) 1.73mm, d) None of these. **Answer - a**

223. From initial to final torque value, crab nut rotates approximately –
a) 120° ± 35°, b) 200° ± 35°, c) 250° ± 35°, d) 360° ± 35°. **Answer - b**

224. Fuel tank capacity of WDP4D Locomotive is –
a) 5000 ltrs, b) 6000 ltrs, c) 6500 ltrs, d) None of these. **Answer - a**

225. What is the function of the compression ring? **Answer - b**
a) Pull the piston down when cylinder is not firing.
b) Prevent the compressed air and gases enter into the crankcase.
c) Prevent the lube oil entering into the air box and combustion chamber.
d) All of the above.

226. Maximum permissible limit of fuel dilution in HHP Lube Oil is –
a) 2 per cent, b) 3 per cent, c) 5 per cent, d) 10 per cent. **Answer - c**

227. Maximum permissible limit of water contamination in HHP Lube Oil is –
a) 2 per cent, b) 3 per cent, c) 5 per cent, d) 0 per cent. **Answer - d**

228. In HHP Locomotive, the following model Woodward Governor is fitted –
a) PGR, b) PGEV, c) PGR & PGEV, d) None of these. **Answer - b**

229. Which of the following valve is not fitted in HHP Locomotive compressed air system?
a) Duplex check valve, b) FT1 Feed Valve,
c) NRV, d) None of these. **Answer - a**

230. In HHP Locomotive A9 handle is called –
a) Auto brake handle,
b) Direct brake handle, **Answer - a**
c) Bail of ring,
d) None of these.

231. Fuel oil primary filter conditioning gauge needle in green zone indicates fuel oil –
a) Differential pressure is 20 ± 2 psi.
b) Differential pressure is 25 ± 2 psi. **Answer - a**
c) Differential pressure is 30 ± 2 psi.
d) None of the above.

232. Thrust washer is made of –
a) Cast iron with brazed on outer sleeves.
b) Cast iron alloy with tin plating. **Answer - d**
c) Stainless steel with chrome plated.
d) Copper.

233. In HHP Locomotive which type torsional damper is fitted – **Answer - b**
a) Spring pack type, b) Gear type, c) Viscous type, d) Pendulum type.

234. In HHP Locomotive Inlet port open at –
a) 43.5° before BDC,
b) 107.5° after TDC, **Answer - a**
c) 180° after TDC,
d) 67° after BDC.

235. To charge feed pipe air supply is received from – **Answer - a**
a) MR-1 pressure, b) MR-2 pressure, c) BP pressure, d) B.C pressure.

236. No. of teeth in HHP Locomotive Crankshaft gear is –
a) 58, b) 64, c) 79, d) 113. **Answer – c**

237. How many exhaust valves are in a power assembly?
a) 2, b) 3, c) 4, d) None of these. **Answer - c**

238. During engine cranking, Engine Start (FP/ES) switch to be released from Engine Start position when –
a) Engine rpm reaches to 35 – 40 rpm.
b) Engine rpm reaches to 135 -140 rpm. **Answer - b**
c) Engine rpm reaches to 200 – 220 rpm.
d) None of these.

239. Codal life of TSC is –
a) 6 years, b) 10 years, c) 12 years, d) 18 years. **Answer - c**

240. For quick charging of BP in HHP Locomotive, _____ is provided –
a) BPSW, b) SP1,
c) Bail of ring, d) Release position of Auto brake handle. **Answer - d**

241. Maximum speed of clearing the blocked section with floating / lifting locked axle is –
a) 10kmph, b) 15kmph, c) 20kmph, d) 25kmph. **Answer - d**

242. The function of Exhaust diffuser in TSC is –
a) Eliminate the turbulence of exhaust gasses.
b) Eliminate the turbulence of compressed air. **Answer - a**
c) Prevent oil from migrating into exhaust section from the compressor bearing.
d) None of these.

243. Breather valve is provided to – **Answer - d**
a) Vent the piston ring blow-bye air from the compressor crankcase.
b) Maintain vacuum inside compressor sump which helps to eliminate carbon build up on the compressor valve.
c) Maintain vacuum inside compressor sump which helps to prevent oil from being drawn right piston.
d) All of the above.

244. Maximum tractive effort of WDP4D Locomotive is –
a) 24 tones, b) 41 tones, c) 53 tones, d) None of these. **Answer - b**

245. Water temperature maintained in cooling system –
a) 64°c - 90°c, b) 65°c - 91°c, c) 79°c - 85°c, d) None of these. **Answer - c**

246. What is the torque value of lube oil pump gear nut?
a) 80 ft-lbs, b) 265 ft-lbs, c) 340 ft-lbs, d) 580 ft-lbs. **Answer - c**

247. What is the capacity of governor oil of HHP Locomotive?
a) 2.25 Lts, b) 3.79 Lts, c) 4.50 Lts, d) None of these. **Answer - a**

248. Full Form of EBT –
a) Electronic Blowdown Timer.
b) Engine Battery Temperature. **Answer - a**
c) Electric Blowing Transducer.
d) None of the above.

249. No. of teeth in Carrier Drive Gear is –
a) 113,b) 81, c) 80, d) 30. **Answer - d**

250. What is the function of the piston snap ring?
a) Pull the piston down when cylinder is not firing. **Answer - a**
b) Prevent the compressed air and gases enter into the crankcase.
c) Prevent t he lube oil entering into the air box and combustion chamber.
d) All of the above.

251. Capacity of Water Tank of HHP Locomotive –
a) 275 lts, b) 255 Lts, c) 650 Lts, d) 1045 Lts. **Answer - c**

252. How many positions are in L & T switch?
a) 2, b) 3, c) 4, d) 5. **Answer - c**

253. What is the brake cylinder piston stock length of HHP Locomotive?
a) 2" – 2.5", b) 2" – 4.5", c) 2" – 6.5", d) None of these. **Answer – c**

254. Which oil pan cover is special cover?
a) No. 1, b) No. 8, c) No. 9, d) No. 16. **Answer - b**

255. Clutch Test is related to –
a) Lube oil cooler,
b) Clutch gear assembly, **Answer - b**
c) Turbo supercharger,
d) Compressor.

256. In HHP Locomotive duration of compression period is –
a) 87°, b) 113°, c) 16.6°, d) 138°. **Answer - b**

257. Full Form of EFCO –
a) Engine Fuel Cut Out Switch.
b) Engine Fuel Conditioning Object. **Answer - c**
c) Emergency Fuel Cut Off Switch.
d) None of the above.

258. Control stand of HHP locomotive is called –
a) Control Cabin, b) Control Desk,
c) Control Console, d) None of these. **Answer - c**

259. What is the 8th Notch RPM of the WDP4D Locomotive Engine?
a) 269, b) 904, c) 954, d) 1000. **Answer - c**

260. LSP – 5 is issued for –
a) Spectrographic analysis report of lube oil sample by lab. **Answer - d**
b) Spectrographic analysis report of lube oil when shows in normal limit.
c) Spectrographic analysis report of lube oil when shows in abnormal limit.
d) Spectrographic analysis report of lube oil when shows in Critical Limit (BL).

261. Normal gear case oil consumption of HHP Locomotive should not be more than –
a) 1ltrs/month/gear case,
b) 2ltrs/month/gear case, **Answer - a**
c) 3ltrs/month/gear case,
d) 3.5ltrs/month/gear case.

262. LR dropping at higher notch, probable reason of it is –
a) Baggie filter may be chocked, **Answer - d**
b) Booster air pipe connection to governor may be broken/disconnected,
c) Defective fuel injector,
d) All of the these.

263. Advantages of installation of APU System is –
a) Saving fuel oil consumption,
b) Reduce emission, **Answer - d**
c) Reduce noise pollution,
d) All.

264. How many cells are there in a battery of WDP4D Locomotive?
a) 4, b) 5, c) 10, d) None of these. **Answer - b**

265. How many cells are there in a battery of WDG4D Locomotive?
a) 4, b) 5, c) 8, d) None of these. **Answer - a**

266. Before re-cranking engine, wait for minimum _____ minutes to cool starter motor –
a) 1, b) 2, c) 3, d) 4. **Answer -c**

267. How many sand boxes are fitted in HHP Locomotive?
a) 4, b) 8, c) 12, d) 16. **Answer - b**

268. Minimum Flash Point of RR – 520 is –
a) 35°c, b) 194°c, c) 240°c, d) None of these. **Answer - b**

269. To increase OSTA Tripping rpm –
a) OSTA adjusting spring tension to be increased.

b) OSTA adjusting spring tension to be decreased.
c) Both a & b. **Answer - a**
d) None of the above.

270. Hard starting may be experienced due to –
a) Weak Battery,
b) Defective Starter Motor, **Answer - d**
c) Less Compression Pressure,
d) Any One.

271. Maximum speed of traction motor blower of HHP Locomotive is controlled by –
a) OSTA, b) EPD, c) LCC, d) HOD. **Answer - a**

272. Maximum consumable HP of HHP compressor during unloading at 200 rpm is –
a) 2.2 HP, b) 22 HP, c) 23 HP, d) 70 HP. **Answer - a**

273. FAD of HHP Locomotive compressor should not be less than –
a) 567 LPM at 200 rpm,
b) 600 LPM at 200 rpm, **Answer - d**
c) 700 LPM at 200 rpm,
d) 990 LPM at 200 rpm.

274. Turbine Seal is located –
a) Directly behind the impeller.
b) Between the turbine blades and the compressor bearing.
c) Between the turbine blades and the turbine bearing. **Answer - c**
d) None of the above.

275. Compressor Seal is located -
a) Directly behind the impeller.
b) Between the turbine blades and the compressor bearing.
c) Between the turbine blades and the turbine bearing. **Answer - b**
d) None of the above.

276. In Siemens, Control System during dynamic braking, engine raise to – **Answer - b**
a) 2nd Notch rpm, b) 4th Notch rpm, c) 6th Notch rpm, d) None of these.

277. How many planet gears are fitted in HHP TSC?
a) 1, b) 2, c) 3, d) 4. **Answer - c**

278. Which of the following operation is performed during "Crush Height Check"?
a) Do finger tightness check and tight upper basket bolt to 35 ft-lbs.
b) Tight lower basket bolt to 10 ft-lbs. **Answer - d**
c) Measure basket flange joint gap with filler gauge. Flange joint gap should be in between 0.008" to 0.017".
d) All of the above.

279. During torqueing of crab nut –
a) Torque outboard nuts first then the inboard nut.
b) Torque inboard nuts first then the outboard nut. **Answer - a**
c) Torque the four crab nuts of power assembly crosswise only.
d) All of the above.

280. "Crush Height Check" is done to avoid the failure of –
a) Con-rod bearing seizure,
b) Main bearing seizure, **Answer - a**
c) Thrust collar seizure,
d) All.

281. In HHP Locomotive engine cylinders are cooled by –
a) Water, b) Air, c) Supercharged air and water, d) Lube oil. **Answer - c**

282. Maximum tractive effort of WDG4 Locomotive is –
a) 42 tones, b) 23 tones, c) 53 tones, d) 39 tones. **Answer - c**

283. Cam of HHP Locomotive is checked in which schedule?
a) T-30 & above schedule,

b) T-60 & above schedule,
c) T-90 & above schedule, **Answer - a**
d) T-180& above schedule.

284. How many Traction Inverters are fitted in HHP Loco (Medha make Traction System)?
a) 2, b) 4, c) 6, d) 8. **Answer - c**

285. Which type of Main Generator is fitted in HHP Locomotive?
a) DC Generator, b) Single Phase AC Alternator, **Answer - c**
c) 3-Phase AC Alternator, d) None of these.

286. Which type of Traction Motors is fitted in HHP Locomotive?
a) DC Series Motor,
b) Single Phase AC Motor, **Answer - c**
c) 3-Phase AC Motor,
d) None of these.

287. Full Form of EPD –
a) Engine Position Device.
b) Engine Parting Device. **Answer - c**
c) Engine Protection Device.
d) Engine Patrolling Device.

288. In MEDHA, Control System during dynamic braking, engine raise at – **Answer - a**
a) 2nd Notch rpm, b) 4th Notch rpm, c) 6th Notch rpm, d) None of these.

289. Air Box drain pipe is located at –
a) Under truck near fuel tank,
b) Alternator room, **Answer - a**
c) Compressor room,
d) Clean air compartment.

290. Series of WDP4D is –
a) 12, b) 20, c) 40, d) 70. **Answer - c**

291. WDP4DH is a –
a) Single Cab, b) Dual Cab,
c) Dual Cab with Disc Brake, d) Dual Cab with Hotel Load. **Answer - d**

292. WDP4D is a –
a) Single Cab, b) Dual Cab,
c) Dual Cab with Disc Brake, d) Dual Cab with Hotel Load. **Answer - b**

293. What is the function of the Oil Control Ring?
a) Pull the piston down when cylinder is not firing. **Answer - c**
b) Prevent the compressed air and gases and enter into the crankcase.
c) Prevent the lube oil entering into the air box and combustion chamber.
d) All of the above.

294. Only pour _____ in the HHP Loco –
a) DM Water, b) Raw Water, c) Tap Water, d) All of these. **Answer - a**

295. Full Form of DM Water –
a) Distilled and Mineralized Water, b) De-mineralized Water.
c) De-ionized Manufacture Water, d) None of the above. **Answer - b**

296. Don't off _____ circuit breaker immediate after engine shut down –
a) Computer and TLPM, b) Battery knife switch.
c) Local control, d) GBPM. **Answer - a**

297. Don't crank the engine without external pre-lubrication if engine has not been cranked for more than –
a) 24 hours, b) 36 hours, c) 48 hours, d) 72 hours. **Answer - c**

298. Don't try to raise the engine before engine coolant temperature has been raised –
a) 42°, b) 52°, c) 62°, d) 72°. **Answer - b**

299. Purging cycle of air dryer is – **Answer - c**

a) 15 ± 1 second, b) 30 ± 1 second, c) 60 ± 1 second, d) None of these.

300. In HHP Locomotive MR Safety Valve is fitted at outlet pipe of – **Answer - a**
a) MR1, b) MR2, c) MR3, d) MR4.

301. MR Safety Valve setting is –
a) 9.6kg/cm2 (140 psi), b) 8.2kg/cm2 (120 psi),
c) 10.6kg/com2 (150 psi), d) None. **Answer - c**

302. Capacity of main Reservoir is -
a) 452 ltrs, b) 492 ltrs, c) 575 ltrs, d) 600 ltrs. **Answer - b**

303. Gear case oil capacity of WDP4 Locomotive is more comparison to WDG4 Locomotive because –
a) Gear case size of WDP4 is larger than the WDG4 Locos.
b) Pinion size of WDP4 is larger than the WDG4 Locos. **Answer - c**
c) Bull gear size of WDP4 is smaller than the WDG4 Locos.
d) All of the above.

304. In HHP Locomotive maximum permissible wear step in cylinder head seat ring is –
a) 0.003", b) 0.005", c) 0.008", d) 0.010". **Answer - a**

305. Discharge capacity of scavenging lube oil pump is –
a) 867 LPM (229 GPM) at 900 rpm, b) 413 LPM (109 GPM) at 900 rpm.
c) 1534 LPM (405 GPM) at 900 rpm, d) None of the above. **Answer - c**

306. Discharge capacity of piston cooling oil pump is –
a) 867 LPM (229 GPM) at 900 rpm, b) 413 LPM (109 GPM) at 900 rpm.
c) 1534 LPM (405 GPM) at 900 rpm, d) None of the above. **Answer - b**

307. Discharge capacity of main lube oil pump is –
a) 867 LPM (229 GPM) at 900 rpm.
b) 413 LPM (109 GPM) at 900 rpm. **Answer - a**
c) 1534 LPM (405 GPM) at 900 rpm.
d) None of the above.

308. ECC4 located in – **Answer - b**
a) Cab-1, b) Cab-2, c) Under-frame, d) Platform near compressor room.

309. Gear ratio (Pinion Gear : Bull Gear) of WDG4D Locomotive is –
a) 17:77, b) 18:65, c) 17:90, d) None of these. **Answer - c**

310. _____ is provided in place of CCM in HHP Locomotive. **Answer - d**
a) TLPM, b) Scavenging Pump, c) Exhauster, d) Ejector Assembly.

311. In HHP Locomotive cooling coil is located at –
a) Left side of the Locomotive, b) Right side of the locomotive, **Answer - c**
c) Radiator room, d) Compressor room.

312. Maximum speed of WDP4D Locomotive is 135kmph due to –
a) HTSC Bogie, b) Fabricated Bogie, **Answer - b**
c) Conventional Bogie, d) None of these.

313. Auxiliary generator is rotated at –
a) Two times of the engine speed, b) Three times of the engine speed,
c) Five times of the engine speed, d) None of these. **Answer - b**

314. Engine shutdown with White smoke indicating defect may be in –
a) Clutch assembly, b) TSC, c) Bearing, d) All of these. **Answer - d**

315. Length of WDG4 Locomotive is – **Answer - b**
a) 22.98 meters, b) 21.24 meters, c) 21.7 meters, d) None of these.

316. No. of teeth in TSC Drive Gear is – **Answer - d**
a) 47, b) 64, c) 37, d) 81.

317. Maximum starting tractive effort of WDG4D Locomotive is –
a) 400kn, b) 540kn, c) 900kn, d) None of these. **Answer – b**

318. 4th Notch Engine rpm of WDP4D Locomotive is –
a) 269, b) 486, c) 572, d) 675. **Answer - c**

319. How many EFCO Switch are fitted in WDP4D Locomotive?
a) 2, b) 3, c) 4, d) None of these. **Answer - c**

320. Lube oil filter element is a –
a) Paper type two stage filter element,
b) Paper type filter in tin container. **Answer - a**
c) Screen type metallic element.
d) None of the above.

321. Long life lube iol filter is changed at –
a) 60 days, b) 90 days, c) 180 days, d) None of the these. **Answer - c**

322. Which type of fuel pump is fitted in HHP Locomotive?
a) Centrifugal type, b) Reciprocating type, **Answer - c**
c) Positive displacement type, d) None of these.

323. TLPM of HHP Locomotive is a – **Answer - c**
a) DC Series Motor, b) AC Motor, c) AC/DC Motor, d) None of these.

324. Soak back filter is fitted –
a) Before soak back pump, b) After soak back pump,
c) There is no specific location, d) None. **Answer - b**

325. Main function of Auto Drain Valve is –
a) Drain the moisture of compressed air,
b) Drain the dirt of compressed air. **Answer - d**
c) Drain the oil particle of compressed air.
d) None of the above.

326. _____ is used to convert pneumatic force in to mechanical force.
a) Brake cylinder, b) Horn, c) Hand Brake, d) None of these. **Answer - a**

327. Piston stroke of WDP4/4D Engine is –
a) 10" , b) 10.5", c) 11", d) None of these. **Answer - c**

328. Direction of flow of water inside the water discharge manifold of crankcase is –
a) Front end to rear end, b) Rear end to front end,
c) Both a & b, d) None of these. **Answer - b**

329. In WDP4/4D Locomotive independent loco brake application time is –
a) 7 – 9 seconds, b) 8 – 12 seconds,
c) 16 – 30 seconds, d) 15 – 20 seconds. **Answer - a**

330. "TRI - NETRA" is a project related to –
a) Introduction of CCTV Camera in Railway platform to monitor passengers activity.
b) Introduction of CCTV Camera in Diesel Shed to monitor workmen activity.
c) Terrain imaging for locomotive driver. **Answer - c**
d) All of the above.

331. How many poles are in HHP Loco TM?
a) 4, b) 6, c) 10, d) None of the above. **Answer - a**

332. WDP4D Locomotive is designed to permit for running at _____ in a flood water level of 102 mm above rail level.
a) 10kmph, b) 15kmph, c) 20kmph, d) 25kmph. **Answer - a**

333. Which of the following sensor are fitted in the traction motor?
a) Temperature sensor, b) Voltage sensor,
c) Air pressure sensor, d) All of the above. **Answer - a**

334. Black smoke from TSC chimney indicates –
a) Incomplete combustion of fuel oil.
b) Lube oil burning in combustion chamber. **Answer - a**
c) Water ingress in combustion chamber.
d) None of the above.

335. Codal life of crankshaft is –
a) 6years, b) 10 years, c) 12 years, d) 18 years. **Answer - d**

336. Bevel gear is found in which component of HHP Locomotive?
a) Governor drive, b) Sun and planet gear, **Answer - a**
c) Scavenging pump, d) None of these.

337. The reason responsible for TSC Failure –
a) Failure of soak back pump, b) Blockage in the lubricating passage.
c) Interruption in completion of soak back pump time cycle. **Answer - d**
d) All of the above.

338. Which transmission is used in HHP Locomotive –
a) DC-DC, b) AC-DC, c) AC-AC, d) None of these. **Answer - c**

339. For _____ each radiator fan is driven by two sped AC Motor –
a) Thermal efficiency, b) Cooling efficiency,
c) Fuel efficiency, d) Mechanical efficiency. **Answer - c**

340. Which of the following changes is done during conversion from 4000 HP to 4500 HP?
a) 54" radiator fan is introduced instead of 52" radiator fan.
b) 8$^{th}$ Notch engine rpm is increased from 904 rpm to 954 rpm. **Answer - d**
c) OSTA tripping rpm is increased to 1085 rpm from 1035 rpm.
d) All of the above.

341. In HHP Locomotive, which of the following valve is not used to convert MR Pressure to 6kg/cm$^2$ FP Pressure?
a) FT-1 Feed Valve, b) F-2 Feed Valve,
c) D24B Feed Valve, d) All of these. **Answer - c**

342. No. of teeth in Planet Gear is –
a) 47, b) 30, c) 26, d) 37. **Answer - a**

343. Cooling time is related to –
a) Lube oil cooler, b) Radiator,
c) Turbo Supercharger, d) Compressor. **Answer - b**

344. What is the minimum thickness of air box hand hole collar?
a) 3.0 mm, b) 3.9mm, c) 4.5mm, d) 5.1mm. **Answer - b**

345. In HHP Locomotive, speed of radiator fan should be in the range of –
a) 260 – 1905, b) 1085 – 1100, c) 1035 – 1050, d) None of these. **Answer - a**

346. Aspirator hole is provided for –
a) Draining purpose of clear air compartment.
b) Draining purpose of TCC compartment. **Answer - a**
c) Draining purpose of compressor compartment.
d) All of the above.

347. What is the permissible limit of root wear?
a) 3.5mm, b) 6mm, c) 5mm, d) None of these. **Answer - b**

348. The flat tyre limit for WDP4D Locomotive is -
a) 50mm, b) 60mm, c) 75mm, d) None of these. **Answer - a**

349. More than 50mm flat tyre, loco should be moved to nearest shed at a speed of –
a) 20kmph, b) 25kmph, c) 30kmph, d) 40kmph. **Answer - a**

350. New wheel diameter of WDG4D Locomotive is –
a) 1092mm, b) 1095mm, c) 1097mm, d) None of these. **Answer - c**

351. Wooden wedge is a –
a) Safety item, b) Safety devices,
c) Safety fittings, d) None of these. **Answer - a**

352. In HHP Locomotive, duration of fuel injection period is –
a) 87°, b) 113°, c) 16.6°, d) 138°. **Answer – c**

353. Specific gravity of electrolyte of battery is measured by –
a) Hydrometer, b) Barometer, c) Hygrometer, d) Voltmeter. **Answer - a**

354. During blended braking –
a) Train brake is applied, b) Loco brake is applied, **Answer - d**
c) Dynamic brake is applied, d) All the above brake is applied.

355. Gear case joint curing time is –
a) 24 hours, b) 36 hours, c) 48 hours, d) None of these. **Answer - a**

356. Reason for OSTA tripping at lower rpm is –
a) Injector rack may be jammed,
b) Over speed mechanism may be failed, **Answer -d**
c) Engine load may be dropped due to electrical malfunctions,
d) All of these.

357. Reason for oil throwing from TSC chimney, may be –
a) Damage power assembly, b) Turbo labyrinth seal failure, **Answer - d**
c) Oil separator screen missing, d) All of these.

358. In HHP Locomotive, yaw damper is also known as –
a) Vertical hydraulic shock absorber,
b) Horizontal hydraulic shock absorber, **Answer - b**
c) Secondary rubber pad,
d) None of these.

359. During cranking of engine in cold condition, engine rpm not hold due to –
a) Improper adjustment of governor compensation needle valve, **Answer - c**
b) Worn out Teflon seal of power piston,
c) Both a & b,
d) None of these.

360. SFC of Locomotive is depended upon –
a) Engine performance, b) Controlling of loco pilot, **Answer - d**
c) Condition of carriage and wagon, d) All of these.

361. 1st Notch TE of WDP4D Locomotive is –
a) 35kn, b) 50kn, c) 15kn, d) 25kn. **Answer - a**

362. Weight of WDP4D Locomotive is –
a) 126 T, b) 123 T, c) 121.2 T, d) 117 T. **Answer - b**

363. How many batteries are fitted in WDP4D Locomotive?
a) 2, b) 8, c) 10, d) None of these. **Answer - c**

364. The sight glass which is located nearest to engine block is called –
a) Return sight glass, b) By-pass glass,
c) Empty sight glass, d) None of these. **Answer - a**

365. Which type of Battery is used in WDP4/WDP4D Locomotive?
a) Lead acid battery, b) Nickel cadmium (NiCd) battery, **Answer -b**
c) Nickel Metal Hydride (NiMH) battery, d) Lithium ion (Li-ion) battery.

366. In HHP Locomotive, for quick firing of engine –
a) High Horse Power FPM is fitted, b) TLPM is fitted, **Answer - c**
c) GBPM is fitted, d) None of these.

367. What is the condemning limit of composite brake block?
a) At 10 mm thickness, b) At 25 mm thickness, **Answer - a**
c) At 50 mm thickness, d) At 75 mm thickness.

368. Firing order of HHP Locomotive is –
a) 1-8-9-16-3-6-11-14-4-5-12-13-2-7-10-15.
b) 1-8-16-9-8-6-14-11-4-5-13-12-2-7-15-10. **Answer -a**
c) 1-8-9-16-3-6-11-14—7-10-15-4-5-12-13.
d) 1-8-9-16-4-5-1-13-7-6-11-14-2-7-10-15.

369. Auto drain valve operate automatically –

a) When the compressor is unloading, b) When EBT valve is energized,
c) Both a & b, d) None of these. **Answer - c**

370. Pick Firing Pressure of HHP Locomotive is –
a) 350 psi, b) 1150 psi, c) 1750 psi, d) 3500 psi. **Answer - c**

371. BSFC of HHP Locomotive is –
a) 158.8 Gm/BHP/Hr, b) 156.0 Gm/BHP/Hr,
c) 152.2 Gm/BHP/Hr, d) 154.2 Gm/BHP/Hr. **Answer - a**

372. No. 1 radiator fan is called that fan which is –
a) Nearest to compressor, b) furthest from compressor,
c) there is no specified concept for numbering, d) None of these. **Answer - a**

373. Coil resistance of WW Governor solenoid should be –
a) 500Ω ± 10% at 20ºc, b) 600Ω ± 10% at 20ºc,
c) 700Ω ± 10% at 20ºc, d) None. **Answer - c**

374. Minimum torque value of cylinder liner stud (in liner) is –
a) 50 ft-lbs, b) 90 ft-lbs, c) 190 ft-lbs, d) 240 ft-lbs. **Answer - a**

375. Expected water temperature drop through radiator is –
a) 5.5ºc, b) 7.5 ºc, c) 9.5 ºc, d) None of these. **Answer - c**

376. Tube of lube oil cooler core is made of –
a) Brass, b) Copper, c) Aluminium, d) None of these. **Answer - a**

377. Inter cooler of compressor is used to improve –
a) Volumetric efficiency of compressor,
b) Cooling efficient of compressor, **Answer - a**
c) Both a & b, d) None of these.

378. In HHP Locomotive compressor breather is replaced in –
a) Every two years, b) Every three years,
c) Every six years, d) None of these. **Answer - b**

379. In spectrographic analysis of engine lube oil normal range of Silicon (Si) is –
a) 0 – 50 ppm, b) 0 – 20 ppm, c) 0 – 15 ppm, d) 0 – 10 ppm. **Answer - c**

380. During TRD Testing, engine should be stopped by –
a) EFCO, b) OSTA, c) LLOB, d) All of these. **Answer - d**

381. The surface on most HHP TSC Bearing is –
a) Silver – plated, b) Gold – plated,
c) Zinc – plated, d) None of these. **Answer - a**

382. Bottom con rod bearing shell is changed after –
a) 2 years, b) 3 years, c) 6 years, d) None of these. **Answer - c**

383. HHP Locomotive is fitted with –
a) DURACAM, b) FE Cam, c) Stiffer Unit Cam, d) All of these. **Answer - a**

384. In HHP Locomotive, oil level capacity of gear case is –
a) Same in WDP4 & WDG4 locomotives,
b) More in WDP4 Locos as compared to WDG4 locomotive, **Answer - b**
c) More in WDG4 locos as compared to WDP4 locomotive,
d) None of these.

385. RPM of governor drive gear is same as –
a) Crank shaft rpm, b) Main lube oil pump rpm, **Answer - a**
c) Water pump rpm, d) None of these.

386. To check fuel oil pressure, Gauge to be connected on –
a) Primary filter housing, b) Secondary filter housing, **Answer - b**
c) Fuel pump motor, d) None.

387. If due to any reason, value of BAP is exceeded its normal value then loco will be shut down through –
a) HOD, b) Crank case EPD button,

c) Low water EPD button, d) None of these. **Answer - c**

388. In HHP Locomotive, Left Side Cam Gear is driven by –
a) No. 2 idler gear, b) Crank shaft gear, **Answer - a**
c) Right side cam gear, d) None of these.

389. How many bull gears are fitted in WDG4D Locomotive?
a) 3, b) 4, c) 6, d) None of these. **Answer - c**

390. How many fuel oil spin on filters are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 4. **Answer - b**

391. Where the serial number of crankshaft is written?
a) On the web of both the first and last throws.
b) Right Side of the main bearing caps, **Answer - a**
c) Right side of each end "A" frame.
d) All of the above.

392. How many studs are in a power assembly liner?
a) 8, b) 12, c) 16, d) 18. **Answer - a**

393. Exhaust screen of HHP Locomotive is inspected in which schedule?
a) T-30 & above, b) T-90 & above,
c) T-180 & above, d) T-Yearly & above. **Answer - b**

394. What is the purpose of thrust collar in HHP Locomotive? **Answer - a**
a) Their purpose is to limit the longitudinal movement of the crankshaft.
b) Their purpose is to limit the vertical movement of the crankshaft.
c) Their purpose is to limit the vertical movement of the cam.
d) None of these.

395. What is the discharge capacity of water pump?
a) 867 LPM (229 GPM) at 900 rpm,
b) 413 LP (109 GPM) at 900 rpm, **Answer - d**
c) 1534 LPM (405 GPM) at 900 rpm,
d) 3411 LMP (900 GPM) at 900 rpm.

396. No. of teeth in Water Pump Gear is –
a) 37, b) 26, c) 30, d) 69. **Answer - a**

397. Taper stub shaft is fitted on –
a) Harmonic damper, b) Camshaft,
c) Main Alternator, d) Companion Alternator. **Answer - a**

398. No. of spring in Accessory Drive Gear is –
a) 10, b) 12, c) 8, d) 16. **Answer - c**

399. No. of roller in Accessory Drive Coupling is –
a) 10, b) 12, c) 8, d) 16. **Answer - a**

400. Value of Impeller Eye Clearance of HHP Turbocharger at 12 O'clock position is –
a) 0.012" – 0.025", b) 0.024" – 0.048",
c) 0.016" – 0.039", d) 0.010" – 0.018". **Answer - b**

401. The temperature difference between the two consecutive main bearings should not exceed by -
a) 5ºc, b) 2ºc, c) 6ºc, d) None of these. **Answer - d**

402. Bubble in return sight glass is checked during –
a) Lube oil pressure dropping, b) Booster pressure dropping,
c) Fuel pressure dropping, d) Air pressure dropping. **Answer - c**

403. Bubble in return sight glass is checked during –
a) Lube oil pressure dropping, b) Booster pressure dropping,
c) Fuel pressure dropping, d) Air pressure dropping. **Answer - c**

404. Out of which safety device, engine comes to idle –
a) OST, b) EPD, c) HOD, d) PCS. **Answer – d**

405. RTM blower greasing is done in which schedule?
a) M4, b) M2, c) T, d) M24. **Answer -**

406. How many types of schedule (T1,M2…) is done at howrah/barddhaman diesel shed?
a) 9. b) 3, c) 5, d) 8 **Answer -**

407. In WDM3A Loco trip schedule is done after how many days?
a) 30, b) 40, c) 20, d) 7. **Answer -**

408. What is the firing order of WDM3A Locomotive?
a) 1:7:4:6:8:2:5:3.
b) 1:4:7:6:8:5:2:3. **Answer -**
c) 1:6:7:4:8:3:2:5.
d) 1:4:6:7:8:5:3:2.

409. Amount of cardium compound required in a modified gear case –
a) 06kg, b) 05kg, c) 09kg, d) 03kg. **Answer -**

410. Modified lube oil sump capacity of WDM3A Locomotive –
a) 910ltrs, b) 1070ltrs, c) 1270ltrs, d) 1210ltrs. **Answer -**

411. Cooling water capacity of WDM3A Locomotive -
a) 1110 ltrs, b) 1250ltrs, c) 1210ltrs, d) 1000ltrs. **Answer -**

412. As per RDSO instruction overhauling of additional C2 Relay valve to be done in which schedule?
a) M4, b) M12, c) M8, d) M24. **Answer -**

413. Brake pipe pressure is maintained as –
a) 3.5kg/cm$^2$, b) 4.0kg/cm$^2$, c) 5.0kg/cm$^2$, d) 4.5kg/cm$^2$. **Answer -**

414. Condemning wheel dia for Goods service is –
a) 1016mm, b) 1012mm, c) 1008mm, d) 1010mm. **Answer -**

415. Which lubricant is used in crank case of WDM3A?
a) RR-606, b) SP-150, c) T-78, d) None of these. **Answer -**

416. The colour of Feed Pipe –
a) Green, b) White, c) Blue, d) Black. **Answer -**

417. M.R. Charging time from 0 to 10kg/cm$^2$ with engine at idle notch –
a) 20 seconds, b) 35 seconds, c) 15 seconds, d) 60 seconds. **Answer -**

418. M.R. Charging time from 8 to 10kg/cm$^2$ with engine at idle notch –
a) 20 seconds, b) 35 seconds, c) 15 seconds, d) 60 seconds. **Answer -**

419. Clearance between brake block and wheel –
a) 15mm, b) 10mm, c) 5mm, d) 20mm. **Answer -**

420. What should be Brake Cylinder Piston stroke of all cylinders -
a) 95-105mm, b) 90-100mm, c) 80-100mm, d) 75-100mm. **Answer -**

421. What should be the Feed Valve Pressure?
a) 6 ± 1, b) 6.5 ± 1, c) 5.9 ± 1, d) 6 ± 1.5. **Answer -**

422. As per RDSO instruction during load test what should be the minimum crack case vacuum –
a) 1 inch, b) ½ inch, c) ¾ inch, d) 2 inch. **Answer -**

423. Fuel tank capacity of WDM3A –
a) 6000ltrs, b) 5500ltrs, c) 5000ltrs, d) 4500ltrs. **Answer -**

424. In HHP Locomotive, Governor pump is given by –
a) Governor drive gear, b) No. 1 idler gear, **Answer -**
c) No. 2 idler gear, d) Cam gear.

425. Rice blasting is related to –
a) Power assembly, b) Fuel system, **Answer - c**
c) Turbo supercharger, d) Lube oil system.

426. Accessory drive gear is fitted in the –
a) Front end of the engine, b) Rear end of the engine,
c) Front and Rear end of the engine, d) None of these. **Answer - a**

427. During EPD Testing at idle engine should not be shut down before –
a) 120 second, b) 50 second, c) 60 second, d) 35 second. **Answer - d**

428. TPU fitted on –
a) Harmonic damper, b) TSC, **Answer - b**
c) Main Alternator, d) Companion Alternator.

429. Crank shaft to TSC speed ratio is (when driven through gear train) –
a) 0.0008877314814814815, b) 0.0008888888888888888, **Answer - a**
c) 0.0009016203703703703, d) None of these.

430. No. of water pump fitted in WDP4D Locomotive is –
a) 1, b) 2, c) 4, d) None of these. **Answer - b**

431. In HHP Locomotive bail of ring is provided –
a) To release loco brake, b) To release train brake, **Answer - c**
c) To release loco brake during conjunction working, d) None of these.

432. Crank shaft to cam shaft speed ratio is –
a) 0.0008877314814814815, b) 17:77, c) 17:90, d) None of these. **Answer - d**

433. Fuel tank capacity of WDG4 Locomotive is –
a) 5000 ltrs, b) 6000 ltrs, c) 6500 ltrs, d) None of these. **Answer - b**

434. No. of teeth in No. 2 Idler Gear is –
a) 58, b) 64, c) 69, d) 79. **Answer - a**

435. Compressor Drive coupling retainer nut is torque at –
a) 450 ft-lbs, b) 500 ft-lbs, c) 250 ft-lbs, d) 650 ft-lbs. **Answer - b**

436. To operate wiper, air supply is received from –
a) MR-1 Pressure, b) MR-2 Pressure,
c) BP Pressure, d) B.C Pressure. **Answer - a**

437. In HHP Locomotive bail of ring is used for –
a) VCD acknowledgement, b) To release train brake, **Answer - a**
c) To apply train brake, d) None of these.

438. Presently in HHP Locomotive, which of the following Governor is fitted –
a) Woodward Governor, b) MCBG,
c) EH Governor, d) Both Woodward and MCBG. **Answer - d**

439. In HHP Locomotive, EPD is fitted in the –
a) Right side, Front end of the Engine,
b) Right side, Rear end of the Engine, **Answer - c**
c) Left side, Front end of the Engine,
d) None of these.

440. During EPD Testing (Engine running above 3rd Notch), Engine should be shut down in –
a) 120 second, b) 40 second, c) 35 second, d) Immediately. **Answer - d**

441. The sight glass which is located furthest from engine block is called –
a) Return sight glass, b) By-pass sight glass,
c) Empty sight glass, d) None of these. **Answer - b**

442. Flywheel point indicator is fitted on –
a) Harmonic damper, b) Starter motor bracket,
c) Main alternator, d) Companion alternator. **Answer - b**

443. In HHP Locomotive Crankshaft to cam shaft speed ratio is –
a) 1:1, b) 17:77, c) 17:90, d) None of these. **Answer - a**

444. Weight of WDG4 Locomotive is –
a) 126 T, ) 123 T, c) 121.2 T, d) 117 T. **Answer – a**

445. Piston of HHP Locomotive is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - b**
c) Stainless steel with chrome plated,
d) Cast iron.

446. No. 1 compression ring of HHP Piston is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - c**
c) Stainless steel with chrome plated,
d) Cast iron.

447. Cylinder head of HHP Locomotive is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - d**
c) Stainless steel with chrome plated,
d) Cast iron.

448. Lower liner insert of HHP Locomotive is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - d**
c) Stainless steel with chrome plated,
d) Cast iron.

449. Head of Exhaust valve of HHP Locomotive is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - d**
c) Stainless steel with chrome plated,
d) Nickel chromium alloy steel.

450. Stem of Exhaust valve of HHP Locomotive is made of –
a) Cast iron with brazed on outer sleeves,
b) Cast iron alloy with tin plating, **Answer - d**
c) Stainless steel with chrome plated,
d) Steel.

451. Tin plating is done on HHP Piston to –
a) Improve thrust load bearing capacity,
b) Reduced liner scuffing,
c) Aid in the break in process, **Answer - d**
d) All of these.

452. Shot peening process is associated with –
a) Cylinder head, b) Cylinder liner, c) Piston ring, d) Piston. **Answer - c**

453. Which oil is used in HHP Locomotive Governor?
a) Servo Prime 76, b) Servo Press 100, **Answer - d**
c) Servo Prime 57, d) Both a & c.

454. In HHP Locomotive, Governor is fitted on –
a) Front end of the engine, b) Rear end of the engine,
c) Loco pilot cabin, d) ECC - 1 compartment. **Answer - a**

455. Crank shaft gear damper is checked for free movement during –
a) T – 90 schedule, b) T -180 schedule,
c) T – 360 schedule, d) 3 yly & above schedule. **Answer - d**

456. A short fuel level sight gauge is provided in both side of the Fuel Tank to –
a) Prevent over filling in case of glow rod gauge is defective.
b) Prevent over filling in case of fuel filling flowmeter is defective. **Answer - d**
c) Prevent over filling in case of wrong set or adjustment in flowmeter by fuel issuer.
d) All of the above.

457. In spectrographic analysis of engine lube oil normal range of Zinc (Zn) is –
a) 0 – 50 ppm, b) 0 – 20 ppm, c) 0 – 15 ppm, d) 0 – 10 ppm. **Answer – d**

458. Bubbles in the fuel return sight glass during priming indicates –
a) Air draw in suction side of the fuel booster pump,
b) The leaky fuel injector, **Answer - a**
c) Insufficient fuel supply,
d) None of these.

459. Bubbles in the fuel return sight glass after cranking the engine indicates –
a) Air draw in suction side of the fuel booster pump,
b) The leaky fuel injector, **Answer - b**
c) Insufficient fuel supply,
d) None of these.

460. Bubbles in the fuel return sight glass in higher notch with full load indicates -
a) Air draw in suction side of the fuel booster pump,
b) The leaky fuel injector, **Answer - c**
c) Insufficient fuel supply,
d) None of these.

461. To charge feed pipe at 6kg/cm$^2$ air pressure which valve is fitted –
a) F2 Feed Valve, b) FT1 Feed Valve,
c) C2N Feed Valve, d) Any one of these. **Answer - d**

462. Auto brake valve handle has –
a) 2 positions, b) 3 positions, c) 5 positions, d) None of these. **Answer - c**

463. In HHP Locomotive wheel to brake block clearance is –
a) 10 mm, b) Depend upon the location of the wheel,
c) Independent on the location of the wheel, d) None of these. **Answer - b**

464. In HHP Locomotive, FP Pressure is set at –
a) 6.0 ± 0.1kg/cm$^2$, b) 6.1 ± 0.1kg/cm$^2$, **Answer - a**
c) 6.2 ± 0.1kg/cm$^2$, d) None of these.

465. In HHP Locomotive fuel oil spin on filter is fitted on –
a) Right side, Front end of the Engine,
b) Right side, Rear end of the Engine, **Answer - a**
c) Left side, Front end of the Engine,
d) None of these.

466. During DBI Testing of MR Tank of HHP Locomotive, hydraulic testing is done at –
a) 1 time working pressure,
b) 1.5 times working pressure, **Answer - b**
c) 2 times working pressure,
d) None of these.

467. In HHP Locomotive, exhaust valve close at –
a) 43.5º before BDC,
b) 43.5º after BDC, **Answer - d**
c) 107.5º after TDC,
d) 67º after BDC.

468. To operate ABD, air supply is received from –
a) MR-1, b) MR-2, c) MR-4, d) None of these. **Answer - a**

469. TM Blower air duct (bellow) is changed at –
a) T – 360 schedule, b) T – 720 schedule,
c) 3 yearly schedules, d) 6 yearly schedules. **Answer - d**

470. VCD alarm sound during –
a) T0 Cycle, b) T1 Cycle, c) T2 cycle, d) T4 cycle. **Answer - c**

471. In which VCD Cycle, yellow flashing light is glow –
a) T1 Cycle, c) T2 cycle, d) T3 cycle, d) All of these. **Answer - d**

472. Engine Lube Oil sample analysis is done in –
a) T – 30 & above schedule,

b) T – 90 & above schedule,
c) Yearly & above schedule, **Answer - a**
d) Three yearly & above schedule.

473. Spectrographic analysis of lube oil is conducted to determine –
a) Viscosity of Lube oil,
b) PH value of lube oil, **Answer - c**
c) Wear metal elements present in lube oil,
d) All of these.

474. Drop in flash point of the lube oil indicates –
a) Water contamination,
b) Fuel contamination, **Answer - b**
c) Carbon contamination,
d) All of these.

475. A lower flash point & fuel dilution of lube oil may be cause of –
a) Crankcase explosions,
b) LLOB operation, **Answer - d**
c) EPD operation,
d) All of these.

476. In "RR 520 MG", "20" indicates –
a) Total base number of lube oil,
b) Total Brinell number of lube oil,
c) Generation of lube oil, **Answer - a**
d) Grade of lube oil.

477. Lube oil sample should be collected by –
a) Opening pre-lube dummy,
b) Opening no. 5 oil pan hand hole cover, **Answer - d**
c) a hand syringe inserted through the dipstick hole,
d) All of these.

478. How many spline nuts are fitted in accessory drive housing –
a) 45, b) 24, c) 73, d) 57. **Answer - d**

479. Value of Governor Drive gear to stubshaft clearance is – **Answer - a**
a) .003" - .008", b) 0.008" – 0.16", c) .006" - .020", d) .007" – .025".

480. 6kg/cm$^2$ feed valve is located in the –
a) Loco Left Side, b) Loco Right Side,
c) Engine Right Side, d) None of these. **Answer - b**

481. Standard side buffer projection is –
a) 584mm, b) 635mm, c) 650mm, d) None of these. **Answer - b**

482. Battery box is located in the –
a) Left side of the locomotive,
b) Right side of the locomotive, **Answer - a**
c) Both side of the locomotive,
d) None of these.

483. If local control circuit breaker is trip, the loco should be shut down by –
a) LLOB, b) EFCO, c) MUSD, d) None of these. **Answer - a**

484. Starting fuse is located in the –
a) Left side of the locomotive,
b) Right side of the locomotive, **Answer - a**
c) Both side of the locomotive,
d) None of these.

485. Length of radiator cooling fan blade is –
a) 52", b) 48", c) 23", d) None of these. **Answer - a**

486. Length of WDP4B Locomotive is – **Answer - b**
a) 22.98 meters, b) 21.24 meters, c) 21.7 meters, d) None of these.

487. Dynamic brake grid motor is a –
a) DC Motor, b) Single phase AC motor, **Answer - a**
c) Three phase AC motor, d) None of these.

488. According to RDSO Specification, Radiator Core Leakage testing done at –
a) 20 psi pressure, b) 50 psi pressure, **Answer - c**
c) 75 psi pressure, d) 90 psi pressure.

489. To measure the speed of HHP Locomotive _____ is used –
a) Axle generator, b) Pulse generator, c) Radar, d) None of these. **Answer - c**

490. In HHP Loco to create crankcase vacuum –
a) Oil separator & educator tube is fitted,
b) CCM is fitted, **Answer - a**
c) Exhauster is fitted,
d) None.

491. How many ETP are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 4. **Answer - b**

492. The internal parts of injector is cooled and lubricated by –
a) Fuel oil, b) Lube oil, c) Cooling water, d) None of these. **Answer - a**

493. In HHP Locomotive Left side rocker arm are used to operate –
a) Inlet valve, b) Exhaust valve, c) Injector, d) None of these. **Answer - b**

494. Fuel oil secondary filter is changed at –
a) 60 days, b) 90 days, c) 180 days, d) None of these. **Answer - b**

495. Fuel oil primary filter is filtered up to –
a) 600µ, b) 13µ, c) 02µ, d) None of these. **Answer - b**

496. Fuel oil suction strainer is filtered up to –
a) 600µ, b) 13µ, c) 02µ, d) None of these. **Answer - a**

497. Fuel oil secondary filter is filtered up to –
a) 600µ, b) 13µ, c) 02µ, d) None of these. **Answer - c**

498. Minimum lube oil pressure of HHP Locomotive at idle is –
a) 8-12 psi, b) 25-29 psi, c) 20-25 psi, d) 125 psi. **Answer - a**

499. In HHP Locomotive hand cranking arrangement is provided on the –
a) Left rear side of the engine, b) Right rear side of the engine, **Answer - c**
c) Both side, rear end of the engine, d) None of these.

500. Low lube oil shutdown by the Governor is also initiated by the –
a) HOD (Hot Oil Detector), b) EPD low cooling water portion, **Answer - d**
c) EPD crankcase pressure portion, d) All of these.

501. In 710G3B Engine maximum permissible temperature difference between lube oil and water is –
a) 10ºc, b) 11.1ºc, c) 16ºc, d) None of these. **Answer - b**

502. No. 1 idler gear to stub shaft minimum clearance is –
a) 0.005", b0 0.008", c) 0.017", d) None of these. **Answer - a**

503. Lube oil pr. Sensing pipe line are provided in the –
a) Left bank top deck cover, b) Right bank top deck cover,
c) Inside the crankcase, d) Inside the oil pan. **Answer - b**

504. In HHP Locomotive, Lube oil strainer box is filled up with lube oil within –
a) 30 second, b) 45 second, c) 60 seconds, d) 75 second. **Answer - b**

505. In spectrographic analysis of engine lube oil normal range of Aluminum (Al) is –
a) 0 – 20 ppm, b) 0 – 15 ppm, c) 0 – 10 ppm, d) 0 – 05 ppm. **Answer - d**

506. Normal TSC rpm of 4500 hp HHP Locomotive is –
a) 15000 – 20000 rpm, b) 18500 – 21500 rpm, **Answer - c**
c) 18500 – 25000 rpm, d) 18500 – 20000 rpm.

507. Minimum TSC rpm of 4500 hp HHP Locomotive at full load is –
a) 15000 rpm, b) 15932 rpm, c) 18400 rpm, d) 18400 rpm. **Answer - b**

508. Scavenging lube oil pump, minimum pressure at 8th Notch is –
a) 1.4kg/cm$^2$, b) 4.5kg/cm$^2$, c) 5.21.4kg/cm$^2$, d) 7.0kg/cm$^2$ **Answer - a**

509. Normal air box pressure (BAP) in HHP Locomotive at full speed and full load is –
a) 1.1kg/cm$^2$ – 1.75kg/cm$^2$, b) 1.5kg/cm$^2$ – 1.95kg/cm$^2$,
c) 1.4kg/cm$^2$ – 1.75 kg/cm$^2$, d) 1.4kg/cm$^2$ – 1.5kg/cm$^2$. **Answer - c**

510. In HHP Locomotive normal lube oil inlet temperature is -
a) 70 - 90ºc, b) 70 - 80ºc, c) 80 - 90ºc, d) 70 - 99ºc. **Answer - a**

511. Air box pressure is _____ than the exhaust manifold pressure throughout the speed range –
a) 2 psi greater, b) 5 psi greater, c) 2 psi less, d) 5 psi less. **Answer - a**

512. Normal height of lube oil relief valve safety plate to valve guide is –
a) 1", b) 1.5", c) 2", d) 2$^1/_2$". **Answer - b**

513. The purpose of the lube oil relief valve is to –
a) Protect the scavenging pump from overloading.
b) Protect the piston cooling oil pump from over loading. **Answer - c**
c) Limit the maximum pressure of the lube oil entering the engine oil system.
d) All of the above.

514. When installing lube oil relief valve on engine, make sure that the bypass port is positioned in the –
a) Downward direction, b) Upward direction,
c) Left side direction, d) Right side direction. **Answer - a**

515. To overcome TSC surging problem in HHP Locomotive water wash is done for –
a) 05 minutes, b) 15 minutes, c) 25 minutes, d) 30 minutes. **Answer - b**

516. Lube oil Filter elements must be renewed if filter tank pressure reaches _____ at 8th Notch and _____ at idle speed –
a) 25 psi, 7 psi, b) 35 psi, 15 psi,
c) 25 psi, 15 psi, d) 25 psi, 15 psi. **Answer - a**

517. Any engine coolant with a pH in excess of _____ is generally considered unsuitable for use in HHP Engine cooling systems –
a) 5.5, b) 7.5, c) 9.5, d) 10.5. **Answer - d**

518. Standard range of pH value of corrosion inhibitor in HHP Loco coolant is in between –
a) 5.5 to 7.5, b) 7.5 to 10.5 ,c) 9.5 to 10.5, d) 10.5 to 11.5. **Answer - b**

519. Degree and Top dead centre markings are stamped on the outer rim of the –
a) Engine coupling disc, b) Ring gear, **Answer - a**
c) Generator coupling disc, d) Vibration damper.

520. Clearance between flywheel ring gear teeth and EPU must be a gap of – **Answer - b**
a) 0.020" ± 0.005", b) 0.025" ± 0.005", c) 0.030 ± 0.005", d) 0.035" ± 0.005".

521. Excessive backlash in camshaft gear train can cause –
a) Improper valve operation,
b) Improper fuel injection durations, **Answer - d**
c) Unusual sound,
d) All of the above.

522. Which no. main bearing are known as critical main bearing?
a) 2,6,8,9; b) 2,4,8,9; c) 1,5,6,10; d) 3,5,6,9. **Answer - a**

523. In HHP Locomotive, how many thrust collar (bearing) is used?
a) One, b) Two, c) Three, d) Four. **Answer - b**

524. In HHP Locomotive, minimum crankpin journal diameter is –
a) 165.011mm, b) 165.10mm, c) 215.90mm, d) 215.81mm. **Answer - a**

525. In HHP Locomotive minimum main bearing journal diameter is –
a) 165.011mm, b) 165.10mm, c) 215.90mm, d) 215.81mm. **Answer - d**

526. In HHP Locomotive normal crankpin journal diameter is –

a) 165.011mm, b) 165.10mm, c) 215.90mm, d) 215.81mm. **Answer - b**

527. In HHP Locomotive normal main bearing journal diameter is –
a) 165.011mm, b) 165.10mm, c) 215.90mm, d) 215.81mm. **Answer - c**

528. In HHP Locomotive thrust bearing clearance limit is –
a) 0.010" – 0.021", b) 0.0075" – 0.0205",
c) 0.0075" – 0.0150", d) None of these. **Answer - a**

529. In HHP Locomotive main bearing to crankshaft clearance limit is –
a) 0.010" – 0.021", b) 0.0075" – 0.0205",
c) 0.0075" – 0.0150", d) None of these. **Answer - b**

530. In HHP Locomotive, bearing to crankpin clearance limit is –
a) 0.010" – 0.021", b) 0.007" – 0.020",
c) 0.007" – 0.015", d) None of these. **Answer - c**

531. WDP4 is a –
a) Single cab loco,
b) Dual cab loco, **Answer - a**
c) Dual cab loco with disc brake,
d) Dual cab loco with hotel load.

532. In case of ASD, the following item to be checked –
a) OST Trip handle, b) OPS plunger of PG Gov., **Answer -**
c) both, d) None of the above.

533. In case of Engine Speed not increasing more than Idle, which of these emergency switches to be operated –
a) RF, b) GF, c) PCS, d) PT. **Answer -**

534. Control pressure is adjusted at -
a) 8.0 Kg/cm$^2$, b) 6.0 Kg/cm$^2$, c) 5.0 Kg/cm$^2$, d) None. **Answer -**

535. At the time of Dynamic braking the Grid resistance takes from –
a) Generator/Alternator, b) Traction Motor, **Answer -**
c) Both Generator and Alternator, d) None of these.

536. At the time of Dynamic braking the Main Generator gives supply to –
a) Traction Motor Field, b) TM Armature,
c) Both Traction Motor and Field, d) None of the above. **Answer -**

537. At the time of Dynamic braking the Traction Motor –
a) Not working, b) Working as Motor, **Answer -**
c) Working as Generator, d) None of these.

538. Which of the following normally Minimum and Maximum voltage?
a) 1.8/28V, b) 08/28V, c) 53//40V, d) 4/35V. **Answer -**

539. At the time of Dynamic braking all TM field connected as in –
a) Series connection, b) Parallel Connection,
c) Series – Parallel Connection, d) None of these. **Answer -**

540. What is the condemning size of BKBL Carbon brush –
a) ½ inch, b) 1inch, c)1$^1/_2$ inch, d) None **Answer -**

541. BKBL Motor is a –
a) DC Series Motor, b) DC Shunt Motor,
c) AC Series Motor, d) None of these. **Answer -**

542. What happened if BKBL opened at the time of Dynamic braking –
a) Low Grid current, b) Max. Grid current,
c) No braking effort, d) None of these. **Answer -**

543. No. of carbon brush in BKBL Motor –
a) 6 nos., b) 8 nos., c) 2 nos. d) None of the above. **Answer -**

544. How many holders in Traction Generator (BHEL)? – a) 12, b) 10, c) 9. **Answer -**

545. TG Mica under cut depth of BHEL Generator –
a) 70”-80”, b) 50”-70”, c) 40”-60”. **Answer -**

Traction Generator Horse Power – a) 1.6 MW, b) 3 MW, c) 1 MW. **Answer -**

546. Weight of TG only – a) 4900 kg, b) 3600 kg, c) 5100 kg. **Answer -**

547. Grade of Carbon Brush - a) EG 225, b) EG 236 S, c) EG-‘O’. **Answer -**

548. Inter pole is connected with TG armature -
a) In Series, b) In Parallel, c) In Series – Parallel. **Answer -**

549. No of + Ve Holders in TG (BHEL) – a) 8, b) 6, c) 5 **Answer -**

550. Tr. Gen. Commutator Ovality is good if ovality is – a) 5”, b) 4”, c) 2” **Answer -**

551. Nos. of Inter Pole in Tr. Gen. (BHEL) – a) 10, b) 12, c) 14 **Answer -**

552. Green Bin is used for – a) Metal Scrap, b) Rubber Scrap, c) cloth & cotton. **Answer -**

553. ALCO Loco is used in – **Answer - c**
a) Goods, b) Passenger, c) Goods & Passengers, d) None of these.

554. WDG4 is used in – **Answer - a**
a) Goods, b) Passenger, c) Goods & Passengers, d) None of these.

555. WDP4 is used in – **Answer - b**
a) Goods, b) Passenger, c) Goods & Passengers, d) None of these.

556. Speed of ALCO Loco is – **Answer - a**
a) 120kmph, b) 140 kmph, c) 160kmph, d) 180kmph.

557. Speed of WDG4 Loco is – **Answer - a**
a) 120kmph, b) 140 kmph, c) 160kmph, d) 180kmph.

558. Speed of WDP4 Loco is – **Answer - c**
a) 120kmph, b) 140 kmph, c) 160kmph, d) 180kmph.

559. Horsepower of ALCO Loco is – **Answer - a**
a) 2600-3300, b) 4000-4500, c) 4000-4500, d) None of these.

560. Horsepower of WDG4 Loco is – **Answer - b**
a) 2600-3300, b) 4000-4500, c) 4000-4500, d) None of these.

561. Horsepower of WDP4 Loco is – **Answer – b**
a) 2600-3300, b) 4000-4500, c) 3000-4500, d) None of these.

562. Engine starting switch of ALCO Loco is located in – **Answer - a**
a) Engine Cab Room, b) Engine Accessories, c) Engine Control Panel, d) None of these.

563. Engine starting switch of WDG4 Loco is located in –
a) Engine Cab Room, b) Engine Accessories,
c) Engine Control Panel, d) None of these. **Answer - b**

564. Engine starting switch of WDP4 Loco is located in –
a) Engine Cab Room, b) Engine Accessories, **Answer - c**
c) Engine Control Panel, d) None of these.

565. Cab Light Switch of ALCO Loco is in –
a) Cab Room, b) Near Cab Light, **Answer - a**
c) Control Stand Switch Panel, d) None of these.

566. In EMDEC Engine HOD has been replaced with –
a) a lube oil temperature sensor, b) a ¾ “ plug,
c) a temperature gauges, d) None of these. **Answer - a**

567. Diameter of the Governor lube oil pressure sensing pipe line is -

a) 1 / 2", b) 1 / 4", c) 3 / 4", d) 1 / 8". **Answer - d**

568. Axle Load of WDG4D Locomotive is –
a) 21T, b) 20.5T, c) 20.25T, d) 21.7T. **Answer - d**

569. During pre-lubrication lube oil is filtered through –
a) Only TSC Spin on filter, b) Only TSC soak back filter, **Answer - b**
c) Both, TSC soak back and TSC Spin on filter, d) None of these.

570. Driver's backup brake valve has –
a) 02 position, b) 03 position, c) 04 position, d) 05 position. **Answer - b**

571. Which of the following position are in Driver's backup brake valve – **Answer - d**
a) V – Emergency Position, b) III – Lap Position, c) II – Running Position, d) All of these.

572. To activate Driver's backup brake valve -
a) PR COS cock to be operated to horizontal position from vertical,
b) PR COS cock to be operated to vertical position from horizontal,
c) MAB Circuit breaker to be off, **Answer - a**
d) All of the above.

573. During failure of CCB system, section to be clear by Driver's backup brake valve with maximum speed of –
a) 10kmph, b) 15kmph, c) 25kmph, d) 40kmph. **Answer - a**

574. In CCB 1.5 which statement is true regarding "Dead Engine Cock" –
a) It has two position, **Answer - d**
b) During normal working this cock should be kept in horizontal position,
c) During dead movement this cock should be kept in vertical (90 degree) position,
d) All of the above.

575. No. of roller in Compressor Drive Coupling is – a) 10, b) 12, c) 8, d) 16. **Answer - a**

576. In CCB 2 which statement is true regarding "Dead Engine Cock (DER)" –
a) It has two position, **Answer - d**
b) During normal working this cock should be kept in "OUT" position,
c) During dead movement this cock should be kept in "IN" position,
d) All of the above.

577. Main component of HHP Locomotive turbocharger is –
a) Dwelling assembly, b) Rotating assembly, **Answer - d**
c) Gear drive assembly, d) All of the above.

578. The dwelling assembly is comprised of –
a) 6 iron casting, b) 5 aluminium casting, **Answer - a**
c) 5 steel forging unit, d) None of these.

579. Value of Impeller Eye Clearance of HHP Turbocharger at 3 O' Clock position is –
a) 0.012" – 0.025", b) 0.024" – 0.048",
c) 0.016" – 0.039", d) 0.010" – 0.018". **Answer - c**

580. The dwelling assembly consists of –
a) Compressor scroll, b) Compressor bearing support,
c) Turbine bearing support, d) All of the above. **Answer - d**

581. The doweling assembly consists of –
a) Main housing, b) Idler gear support, **Answer - d**
c) Carrier bearing support, d) All of the above.

582. _____ is also known as the heart of any turbocharger –
a) Dowelling assembly, b) Rotating assembly,
c) Gear Drive assembly, d) All of the above. **Answer - b**

583. No. of teeth in Governor Drive Gear is – a) 37, b) 131, c) 80, d) 113. **Answer - d**

584. MR Tanks of HHP Locomotive is fitted at –
a) Left side of the locomotive, b) Right side of the locomotive,
c) Both side of the fuel tank, d) None of these. **Answer - b**

585. Nozzle Ring is a part of –
a) Dowelling assembly, b) Rotating assembly,
c) Gear Drive assembly, d) All of these. **Answer - b**

586. No. of teeth in Camshaft Drive Gear is – a) 26, b) 37, c) 79, d) 113. **Answer - c**

587. Exhaust diffuser is a part of –
a) Dowelling assembly, b) Rotating assembly,
c) Gear drive assembly, d) All of these. **Answer - b**

588. Planet Gear is a part of –
a) Dowelling assembly, b) Rotating assembly,
c) Gear drive assembly, d) All of these. **Answer - c**

589. Carrier shaft assembly is a part of –
a) Dowelling assembly, b) Rotating assembly,
c) Gear drive assembly, d) All of these. **Answer - c**

590. The passage between stationary vanes of nozzle ring is called –
a) Nozzle, b) Cradle, c) Diffuser, d) None of these. **Answer - a**

591. In 710-G TSC no. of blade in impeller is –
a) 34, b) 53, c) 16, d) None of these. **Answer - a**

592. In 710-G TSC no. of blade in turbine is –
a) 34, b) 53, c) 16, d) None of these. **Answer - b**

593. In 710-G TSC impeller is made of –
a) Stainless Steel, b) Copper, c) Aluminium, d) Brass. **Answer - c**

594. In 710-G TSC impeller is made by –
a) Casting, b) Forging, c) Friction welding, d) None. **Answer - b**

595. There are _____ silver-plated hydra-dynamic bearings in HHP TSC –
a) 2, b) 3, c) 5, d) 6. **Answer - d**

596. "Labyrinth" seal used in the Turbocharger, basically is a –
a) Viton rubber seal, b) PTFE Teflon seal,
c) Air pressure seal, d) None of these. **Answer - c**

597. Which "labyrinth" seals is found in HHP TSC –
a) Impeller Seal, b) Compressor Seal,
c) Turbine Seal, d) All of the above. **Answer - d**

598. Impeller Seal is located –
a) Directly behind the impeller,
b) Between the turbine blades and the compressor bearing,
c) Between the turbine blades and the turbine bearing, **Answer - a**
d) None of the above.

599. Which sight glass is filled up with bubble less fuel oil –
a) Return sight glass,
b) By-pass sight glass, **Answer - a**
c) Empty sight glass,
d) None of the above.

600. Function of Impeller seal is to –
a) Prevent oil in the compressor bearing area from being drawn out into the compressor air scroll by the suction created on the impeller spins, **Answer - a**
b) Prevent oil from migrating into exhaust section from the compressor bearing,
c) Prevents oil from migrating into the exhaust duct from the turbine bearing,
d) None of these.

601. FAD of HHP Loco compressor should not be less than –
a) 4000 LPM at 950 rpm, b) 5677 LPM at 950 rpm, **Answer - b**
c) 6000 LPM at 950 rpm, d) 7000 LPM at 950 rpm.

602. Lube oil consumption of HHP Loco compressor should not be more than –
a) 1.5 ltrs/month, b) 2 ltrs/month, c) 3 ltrs/month, ) 3.5 ltrs/month. **Answer - a**

603. In HHP Loco compressor discharge air temp. at HP outlet may allowed upto –
a) 100ºc, B) 150ºc, C) 200ºc, D) 250ºc. **Answer - c**

604. In HHP MU, loading and unloading of compressor of both loco is synchronized by –
a) MVCC of leading loco, b) MVCC of trailing loco,
c) CMPSYN relay, d) None of these. **Answer - c**

605. In HHP Locomotive, LP and HP cylinders of compressor are arranging with an angle of –
a) 30º between them, b) 45º between them,
c) 60º between them, d) 90º between them. **Answer - c**

606. Rising copper levels in lubrication oil is a concern of high -
a) Thrust washer wear, b) Piston wear,
c) Liner wear, d) None of the above. **Answer - a**

607. Maximum allowable wear limit of thrust washer is -
a) 0.070" – Based on change in lead wear reading, **Answer - c**
b) 0.080" – Based on absolute snap ring clearance reading,
c) Both a & b,
d) None of these.

608. Thrust washer wear in a power pack can be determined by –
a) Change in lead wear reading, b) Absolute snap ring clearance,
c) both a & b, d) None. **Answer - c**

609. To check Thrust washer wear by "absolute snap ring clearance" method concerned piston to be kept in –
a) TDC, b) BDC, c) 45º after TDC, d) $22^1/_2$º after TDC. **Answer - b**

610. Which pressure is adjusted by limiting valve
a) F-1 pressure b) BP pressure,
c) FP pressure, d) Synchronization pressure **Answer - d**

611. When emergency brake application is done through A-9 in flasher light modified loco the condition of loco will be-
a) Loco comes to idle and nothing else happens,
b) Loco comes to idle, flasher light is on,
c) Loco comes to idle, flasher light is on & buzzer blows, **Answer - a**
d) Loco does not come to idle, flasher light is on & buzzer blows.

612. PATB buzzer blows when –
a) AFI needle is above 60, b) AFI needle is below 60
c) AFI needle is above 80, d) AFI needle is above 70. **Answer - c**

613. Unit of Air Flow Indicator (AFI) is -
a) Kg/cm2, b) Pound / inch, c) Wagon reading, d) Km/h. **Answer - c**

614. Function of Air vacuum proportionate valve is in Diesel locos for – **Answer - d**
a) Acceleration, b) Loco comes to idle, c) For starting of loco, d) For synchronization of brake.

615. How many position setting of C3 W distributor valve has –
a) Two position setting, b) One position setting,
c) Three position setting, d) No different setting. **Answer - a**

616. On operating D-1 emergency which pressure drops –
a) MR, b) BP, c ) HS-4, d) No air supply. **Answer - b**

617. How many braking position of A-9 valve have..
a) 05 breaking position, b) 04 breaking position,
c) 03 breaking position, d) 01 breaking position. **Answer -b**

618. How many braking position of SA-9 valve have..
a) 03 position, b) 02 position, c) 05 position, d) 01 position. **Answer - a**

619. Air supply for horn is from –

a) MR-1 tank, b) MR-2 tank„ c) J" filter, d) HS-4. **Answer - a**

620. Permissible leakage of vacuum in train pipe is –
a) 0 cm, b) Upto 10 cm, c) Upto 20 cm, d) Upto 30 cm. **Answer - b**

621. Overcharging (in Air Brake System) feature is applied by which air brake valve –
a) C3 W distributor valve, b) VA-1B control valve,
c) C2-W relay valve, d) VA-1 release valve. **Answer - c**

622. In 28 VB Control Valve, the vacuum of train pipe comes at –
a) Above big diaphragm, b) Below big diaphragm,
c) Above small diaphragm, d) Below small diaphragm. **Answer - a**

623. Above C2-relay diaphragm air pressure comes from – **Answer - a**
a) A-9 valve, b) SA-9 valve, c) MR valve, d) Synchronization on pressure

624. Duplex check valve operates when MR pressure reaches at pressure (kg/cm$^2$)
a) 5kg/cm$^2$, b) 6kg/cm$^2$, c) Always open, d) 10kg/cm$^2$. **Answer - a**

625. Maximum permissible time for loco brake release in seconds is the loco fitted with chock in C2 relay valve –
a) 50 sec, b) 40 sec, c) 24 sec, d) 30 sec. **Answer - c**

626. H-5 valves operates when BP pressure drops upto (kg/cm$^2$) –
a) 1.8 kg/cm$^2$
b) 2 kg/cm$^2$,
c) 4 kg/cm$^2$, **Answer - a**
d) 5 kg/cm$^2$.

627. When H5 or HB-5 valve operates which air supply goes to PCS – **Answer - a**
a) MR Pressure, b) HS-4 Pressure, c) FP Pressure, d) BP Pressure.

628. When big diaphragm of VA-1B control valve gets punctured, what action will happen?
a) Vacuum will drop to Zero,
b) Vacuum will not drop down, **Answer - b**
c) Vacuum will drop partially,
d) None of the above.

629. R-6 relay valve is fitted in loco for –
a) Quick MR charging, b) Quick working of AFMV valve,
c) Quick vacuum building, d) Bypassing AFMV. **Answer - b**

630. In automatic switching on flasher light modification of locos the TDR (time delay relay) is set at...
a) 40 sec, b) 15 sec, c) 60 sec, d) 120 sec. **Answer - c**

631. The standard Colour of humidity indicator in air dryer is
a) Orange, b) Purple, c) Blue, d) White. **Answer - c**

632. Thread diameter of BP & FP angle cocks (in inch) is...
a) 1", b) 3", c) 2", d) 1¼ ". **Answer - d**

633. MR safety valve is set at pressure (in kg/cm$^2$) **Answer - c**
a) 10.0 kg/cm$^2$, b) 6.0 kg/cm$^2$, c) Above 10.5 kg/cm$^2$, d) Below 6.0 kg/cm$^2$

634. When 7.5-mm dia hole palm end is fitted in BP pipe, the change in BP pressure is
a) Should remain same in one minute,
b) Should fall below 4.0 kg/cm$^2$ in one minute **Answer - c**
c) Should not fall below 4.0 kg/cm$^2$ in one minute
d) Should come down to 3 cm in one minute.

635. In duel brake loco, if combined strainer cock is kept in close position, action will be noticed -
a) Vacuum will not be shown in gauge, b) MR pressure will drop,
c) Synchronization in loco will be cut off, d) BP will drop. **Answer - c**

636. By increasing HS-4 pressure (vacuum/air) action will happen –
a) Vacuum will drop, b) Vacuum will increase.
c) BP will drop, d) BP will increase. **Answer - a**

637. Auto drain valve blows during –

a) Loading of compressor, b) Unloading of compressor, **Answer - b**
c) When MR safety valve blow, d) MR pressure is above 10.5 kg/cm$^2$

638. Feed valve is charge from –
a) MR-1 tank, b) MR-2 tank, c) 'J' fitter, d) BP pipe. **Answer - a**

639. When vacuum is dropping by applying A-9 valve, air enters in train pipe by which valve/filter –
a) From SA-9 valve, b) From SA-9 valve,
c) From GD-80D filter, d) From GD-80E filter. **Answer - c**

640. GD-80E filter is fitted between-
a) VA-1B control valve and VA –1 release valve,
b) Train pipe and VA-1 release valve **Answer - b**
c) VA-1B control valve and other end open to atmosphere,
d) A-9 valve and SA-9 valve.

641. In case of pure air brake loco with load at the time of train parting, which safety valve is operates and brings the loco to idle
a) H-5 relay valve
b) HB-5 relay valve,
c) Airflow measuring valve **Answer - a**
d) F1 selector valve.

642. When driver is working from right control stand and A-9 is applied from left control stand in emergency position, what will happen?
a) Loco will come to idle,
b) Loco will not come to idle,
c) Loco will shutdown, **Answer - a**
d) Only BP will drop and nothing else will happen.

643. 28 LV brake system is functional in..... **Answer - c**
a) Air brake loco, b) Duel brake loco, c) Vacuum brake loco, d) None.

644. 28 LAV1 brake system is functional in..... **Answer - b**
a) Air brake loco, b) Duel brake loco, c) Vacuum brake loco, d) None.

645. In minimum reduction position of A-9 brake valve BP should drop upto (PSI)...
a) 0 to3 PSI, b) 4 to 7 PSI, c) 8 to 11 PSI, d) 12 to 15 PSI. **Answer - b**

646. Additional C-2 relay valve is used in air brake system for -
a) MR pipe charging, b) BP pipe charging,
c) Vacuum train pipe charging, d) Feed pipe charging. **Answer - b**

647. How many numbers of positions MU2B valve have -
a) One position,
b) Two positions, **Answer - b**
c) Three positions,
d) Four positions.

648. How many "O" rings are fitted in spool valve of VA-1B control valve
a) 02 Nos., b) 03 Nos., c) 04 Nos., d) 05 Nos. **Answer - c**

649. In WDP-2 locos, how many horns are fitted on its hood-
a) 02 nos., b) 04 nos., c) 06 nos., d) 08 nos. **Answer - d**

# Question bank for the post of Chief Loco Inspector/ Vijayawda division for CLI's as per the notification issued by Sr.DPO/BZA's Lr. No. B/P.608/II/Rg/Sup/CLI/VOL.II, Dt: 06.01.2020.

| S. No. | List of Subjects | No. of Questions |
|---|---|---|
| 1 | TRACTION ROLLING STOCK - OPERATIONS | **418** |
| 2 | G&SR AND SAFETY RULES | **299** |
| 3 | OFFICIAL LANGUAGE AND POLICY | **87** |
| 4 | QUESTIONS ON CMS | **50** |
| 5 | ESTABLISHMENT & PERSONAL MATTERS | **28** |
| 6 | RS (D&A) Rules, 1968 | **10** |
| 7 | STORES & TENDERS | **19** |
| 8 | CONTRACTS & WORKS | **20** |
| | TOTAL | **931** |

**NOTE:**

- This question bank is for guidance only.
- The question bank is prepared as per the syllabus and for general guidance of applicants only. These are some model questions, but not exhaustive.

**Annexure-B**

**SYLLABUS FOR THE SELECTION TO THE POST OF CHIEF LOCO INSPECTOR (ELECTRIC TRACTION) IN LEVEL-7 OF PAY MATRIX-2016 (GRADE PAY Rs.4600/-)**

1) Knowledge of General and Subsidiary rules covering his work.
2) Schedule and duties of Loco/Fuel Inspectors/Power Controller/Instructors etc.
3) Knowledge of rest rules pertaining to running staff.
4) (a) Knowledge of preventive maintenance schedule of Locomotives/Particular of Kms at which these schedules are carried out and major items to be attended in the schedules.
   (b) Knowledge of pump working and hydraulic data.
5) (a) Knowledge of road/running time trails.
   (b) Knowledge and preparation of engine/crew links, diagrams, knowledge of power requirement.
6) Knowledge of OHE, traction, substation and switching stations.
7) Knowledge of yard stick for all running staff and shed staff.
8) Knowledge of control organization and setup.
9) Procedure to be followed at the site of accident in case he happens to be the first official to be arrived at spot.
10) Knowledge in dealing with disabled engine in enroutes.
11) Basic knowledge of engine statistics.
12) Knowledge of train working, section capacity, normal and minimum running time.
13) Knowledge of load and trails of locomotives.
14) (a) Steps to reduce the infective percentages of locos.
    (b) Efficient utilization of locomotives.
15) Basic knowledge of fire fighting.
16) Knowledge of the following:
    (a) Discipline and Appeal rules – Conducting enquires etc.
    (b) Payment of wages act.
    (c) Workmen Compensation Act.
    (d) Hours of employment regulation rules.
    (e) Leave and Pass rules.
17) Knowledge of electrical and safety rules and rendering First Aid to electrocuted persons.
18) Knowledge about working of vacuum and air brake trains and their important components.
19) Knowledge of official language policy.
20) Knowledge in Crew Management System and its applications.
21) Knowledge in 3-phase AC locomotives and conventional locomotives.
22) Knowledge in Contract Labor (Regulations & Abolitions) Act, 1970 and rules 1971
23) Knowledge in various out sourcing contracts & its implementations in BZA division pertain to TRSO.
24) Knowledge in Accident manual, 2012 including its amendments.
25) Knowledge in General Rules for Indian Railways with SRs & Special instructions of SCR, 2008 and its amendments.
26) Knowledge in station working rules of major stations of BZA division.
27) Knowledge in Railway Services (Conduct) Rules, 1966.
28) Knowledge in Working Time Table No.**75** of BZA division.
29) Knowledge in various welfare measures to running staff.
30) Knowledge in manual of AC traction maintenance and operation, Vol.III.
31) Knowledge of conventional and three phase locomotive and circuits.
32) Troubleshooting knowledge of conventional, three phase loco.

**TRACTION ROLLING STOCK - OPERATIONS**

## Technical Objective Bit bank

1 In 3Ø loco, to isolate panto No. 2 keep panto selector switch in …… position and close…… coc. ( C )

A Auto , PAN-1 & 2 B II , PAN-1

**C I , PAN-2** D I or II , PAN-1 or 2

2 In 3Ø dead loco, ……. coc should be open for charging BP pressure into auxiliary reservoir. ( B )

A 70 **B 47**

C 74 D 136

3 While 3Ø loco working as banker, put on ……. switch and close 70 cut out cock. ( B )

A ZTEL **B ZBAN**

C BLHO D None of the above

4 For resetting VCD in WAG 9 or WAP 7 loco, wait for …….seconds. ( D )

A 120 B 100

C 240 **D 160**

5 In 3Ø loco, SS-17 belongs to …… sub system. ( C )

A Fire detection B Memotel

**C Processor FLG-1** D Processor FLG-2

6 To perform shunting with 3Ø loco, keep ……. switch in ……. position. ( C )

A 154 ; 0 B 154 ; 1

**C 160 ; 0** D 160 ; 1

7 While working with WAP-7 or WAG-9 with light load, if Harmonic filter is isolated, work with normal speed after isolating …… ( D )

A Auxiliary converter-1 B Traction converter-1 & 2

C Auxiliary converter-2 **D Traction converter-1**

8 In 3Ø loco, Battery charger is getting supply from …… ( C )

A Auxiliary converter No. 1 B Auxiliary converter No. 2

**C Auxiliary converter No. 3** D Traction converter No. 1

9 While energizing 3Ø loco, if UBA meter is showing "0" and corridor lights also not glowing check, MCBs No. …….. ( C )

A 100,110 B 110,112

**C 112, 112.1** D 100,112.1

10 In 3Ø loco, for charging of BP pressure …… coc to be kept open. ( B )

A A-8 **B 70**

C 74 D 47

11 In 3Ø loco, if battery voltage drops below ……. volts, loco will shut down. ( A )

**A 82** B 87

C 90 D 92

12 In 3Ø loco, Battery charger output MCB No. is ……. and its location is at…… ( B )

A 110 ; SB1 **B 110 ; SB2**

C 100 ; HB1 D 100 ; HB2

13 In 3Ø loco, VCD is required to be acknowledged from …….. kmph of speed. ( C )

A 5 B 1

**C 1.5** D 15

14 During loco brake testing of WAG-9 or WAP-7, loco should not to move up to …….. KN. ( B )

A 100 **B 150**

C 300 D 125

15 In 3Ø loco, continuous pressing of PSA for more than 60 seconds is called as ……..mode. ( B )

A VCD isolation **B Dead man**

C VCD acknowledgement D None of the above

16 In 3Ø loco, Constant speed control (CSC) can be activated above …….. kmph of speed. ( A )

**A 5** B 1

C 1.5 D 15

17 In 3Ø loco, Auxiliary converter No.2 feeds ……motors ( D )

A Traction motor blower-1 & 2 B Transformer oil pump-1 & 2

C SR Oil pump-1 & 2 **D all of the above**

18 While clearing 3Ø loco (provided with Knorr brake) as dead, mode switch position in both cabs is …… ( D )

A HLPR B Lead

C Test **D Trail**

19 In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if BP pressure drops (with or without A9) more than …….. $Kg/cm^2$ . ( C )

A 1 B 1.5

**C 0.25** D 0.6

20 In 3Ø loco, SS-10 belongs to …… sub system ( B )

A Battery **B Brake system**

C Auxiliaries HB1 D Auxiliary converter No. 3

21 In 3Ø loco, location of TM Blower-1 is …… ( B )

A Machine room No.1( near cab-2) **B Machine room No.2( near cab-1)**

C Under machine room No.1 D Under machine room No.2

22 In 3Ø loco, if vigilance penalty brakes are applied BP pressure drops to …… $kg/cm^2$. (Gauge reading) ( B )

A 2 **B 2.5 to 3.0**

C 2.5 to 3.5 D 0

23 When ZTEL is switched ON Tractive Effort( TE) is limited to ……. KN in WAG-9. ( B )

A 0.8 to 1.5 **B 300**

C 150 D 458

24 Maximum permissible speed of WAG-9 loco is ……. Kmph. ( A )

**A 100** B 130

C 140 D 160

25 In 3Ø loco, on moving BL key from 'D' to 'OFF' position, …….. brakes will apply automatically. ( C )

A Direct brakes B Auto brakes

**C Parking brakes** D All brakes

26 In 3Ø loco, parking brakes are applied and released through ……. switch in Panel 'A'. ( C )

A Solenoid valve B BPCS

**C BPPB** D None of the above

27 In 3Ø loco, SS-14 belongs to …… sub system. ( B )

A Cab 1 **B Cab 2**

C Fire detection D Auxiliaries in HB 2

28 In 3Ø loco, If ZBAN is switched ON in working cab, …….. Happens. ( A )

**A BP pressure drops to '0'** B FP pressure drops to '0'

C BC pressure raises to 3.5 kg/cm$^2$ D None of the above

29 Hotel load facility is available in …….. loco(s). ( C )

A WAP-5 B WAP-7

**C All WAP-5 and modified WAP-7** D All three phase locos

30 3Ø loco is having …… number of auxiliary Converter (s). ( C )

A 1 B 2

**C 3** D 4

31 In 3Ø loco, SS-18 belongs to …… sub system. ( D )

A Fire detection B Memotel

C Processor FLG-1 **D Processor FLG-2**

32 In 3Ø loco, to close the DJ, ensure …… node information on screen (in driving mode). ( B )

A FLG-504 **B FLG-550**

C FLG-570 D FLG-590

33 Total oil /coolant points in WAG 9 or WAP 7 locos are …… ( C )

A 7 B 6

**C 13** D 8

34 To apply parking brakes in 3Ø dead loco, press. …… side plunger of solenoid valve. ( A )

**A Left** B Right

C Any plunger D None of the above

35 In 3Ø loco is having …… no. of three phase auxiliary motors. ( C )

A 16 B 22

**C 12** D 13

36 In 3Ø loco, UBA meter needle deviates when BL key is in …… mode(s) of BL key. ( C )

A Driving B Cooling

**C Driving or Cooling** D None of the above

37 If speed of the train is increased more than …… than loco MPS, emergency brake will apply in 3Ø loco. ( C )

A 0.5% B 5%

**C 10%** D 50%

38 In 3Ø loco, battery charger input MCB No. is …… and located in …… ( B )

A 100 , HB-1/BUR2 **B 100 , HB-2/BUR2**

C 112.1 ,SB-2/SR2 D 112 , SB-1/SR1

39 In 3Ø loco, if speed is more than …… % than loco MPS, only audio visual indications will appear. ( B )

A 0.50 **B 5**
C 15 D 50

40 Parking brake is provided to ……wheels in WAG-9 loco. ( B )

A 1, 4, 5 & 8 **B 2, 6, 7 & 11**
C 2 & 11 D 1, 6, 7 & 12

41 Over current relay in 3Ø loco is …… ( C )

A OCR-86 B MVR-86
**C OCR-78** D None of the above

42 In ……. gradient area and terminal goods yards Constant speed control (CSC) of 3Ø loco should not be used. ( C )

A Up B Down
**C Undulating** D Steep down

43 In WAG-7 or WAP-4, ……. output is given to all TMs fields during RB. ( B )

A RSI-1 **B RSI-2**
C Both RSI-1 & RSI-2 D None of the above

44 While working 3Ø loco as banker, close …… cocs in pneumatic panel. ( A )

**A 70& 136** B 70&74
C 74&136 D All the above

45 In 3Ø loco, to reset the Fire detection unit (FDU) press the ……button. ( B )

A BPFA **B Press Reset button on FDU**
C ESPB D BPVR

46 In 3Ø loco,……auxiliary motors works only in cooling mode. ( C )

A All three Ø and single Ø motors B All single Ø motors and MCP 1 & 2
**C Only single Ø motors & MCPA** D None of the above

47 In 3Ø loco, if 'Catenary voltage out of limit' appears on screen, change ……. fuse after lowering panto and try. ( D )

A FL B CCBA
C No need to Change **D Potential Transformer**

48 In 3Ø loco, SS-09 belongs to …… sub system. ( A )

**A Battery sytem** B Brake system
C Auxiliaries HB-1 D Auxiliary converter No.3

49 In 3Ø knorr brake loco, rear cab mode switch position is----- ( C )

A HLPR B Lead
**C Trail** D Test

50 To reset VCD in WAP-5 loco, wait for ……seconds. ( D )

A 0 B 160
C 240 **D 120**

51 In 3Ø loco cab changing is to be done with in …… minutes otherwise CE will switch OFF. ( A )

**A 10** B 0
C 15 D 20

52 In 3Ø locos, in cooling mode, for panto and DJ …….. motor creates pressure. ( B )

A MCPs **B MCPA**
C Both A and B D None of the above

53 In 3 Ø loco potential transformer is connected to ……roof bar. ( A )

**A Middle** B Panto-1
C Panto-2 D None of the above

54 The position of mode switch in leading cab of 3Ø loco provided with Knorr brake is …… ( B )

A HLPR **B Lead**
C Trail D Test

55 In 3Ø loco, normal position of 152 switch is …… ( A )

**A '0'** B '1'
C 'NORM' D None of the above

56 In 3Ø loco, SS-16 belongs to …… sub system. ( C )

A Cab-2 B Fire detection
**C Memotel (Speedometer)** D Processor FLG-1

57 In 3Ø loco, SS-04 belongs to …… sub system. ( D )

A Traction bogie-1 B Traction bogie-2
C Main power **D Harmonic filter**

58 In 3Ø loco, SS-08 belongs to ……sub system. ( C )

A Auxiliary converter No.1 B Auxiliary converter No.2
**C Auxiliary converter No.3** D Battery

59 In 3Ø loco provided with Knorr brake, Auto brake valve (A9) handle can be locked or unlocked in …..…… position . ( C )

A Emergency B Neutral
**C Full service** D Minimum reduction

60 3Ø loco is having …… number of roof bars. ( B )

A 2 **B 3**
C 4 D 3+3

61 3Ø loco having …… number of additional cocs (total coc on both sides). ( B )

A 4 **B 4 + 4**
C 16 D 2

62 In 3Ø loco, SS-05 belongs to …… sub system. ( B )

A Harmonic filter **B Hotel load**
C Brake system D Fire detection

63 WAG-9 loco is provided with ……. No. of direct brake cylinders and …….. No. of parking brake cylinders. ( A )

**A 12 & 4** B 12 & 12
C 4 & 12 D 12 & 6

64 3Ø loco is fitted with …….. type of traction motors. ( A )

**A 3 Ø AC Asynchronous squirrel cage induction motor** B TAO 659
C Hitachi D Hitachi or TAO 659

65 In 3Ø loco, position of control Electronics (CE) during cab changing is ..... ( C )

A OFF B ON

**C Self hold mode** D None of the above

66 In 3Ø loco, location of BPFL switch is …… ( D )

A FLCU B In both cabs Panel A

C In both cabs Panel B **D In both cabs Panel C**

67 To move 3 Ø loco as live or dead ensure ……& …… brakes are released. ( C )

A Parking brakes, proportional B Direct brakes, proportional

**C Parking , Direct brakes** D None of the above

68 In 3Ø loco, if throttle (ATDC) is failed, keep …… switch in …… position. ( B )

A 154 , 0 **B 152 , 1**

C 152 , 0 D 160 , 1

69 In 3Ø loco, when parking brakes are applied, parking brake gauge shows ……. ( A )

**A 0 Kg/cm2** B 4 Kg/cm2

C 3.5 Kg/cm2 D 6 Kg/cm2

70 In 3Ø loco, SS-15 belongs to ……sub system. ( B )

A Cab-2 **B Fire detecti**on

C Memotel (Speedometer) D Processor FLG-1

71 In 3Ø loco, to isolate panto No.1 keep panto selector switch in …..... Position. ( C )

A Auto B I

**C II** D I & II

72 Location of Emergency stop push button switch in 3Ø loco is ..... ( A )

A **In both cabs Panel A** B In both cabs Panel B

C In both cabs Panel C D In both cabs Panel D

73 WAG-9 or WAP-7 locos are having …….. number of dampers (in both primary and secondary suspension). ( B )

A 16 **B 20**

C 40 D 10

74 Location of MCP-2 in 3Ø loco is …… ( B )

A Loco left side below Machine room No.1 **B Loco right side below Machine room No.2**

C Machine room No.1 D Machine room No.2

75 In 3Ø loco, glowing of BPFA and flickering of LSFI indicates ……fault. ( B )

A Isolation of sub system **B Priority-1**

C Priority-2 D Both Priority-1 & 2 faults at a time

76 In 3Ø locos, VCD is required to acknowledge once in every …… seconds. ( B )

A 8 **B 60**

C 68 D 160 in WAG-9 or WAP-7 & 120 in WAP-5

77 In 3Ø loco, on run glowing of BPFA alone indicates …… fault. ( C )

A Priority-1 B One of the sub system is isolated

**C Priority-2** D Priority-1 fault or Priority-2 fault

78 Location of Harmonic filter resistances in 3Ø loco is …… ( A )

**A Loco roof** B Inside FB

C Machine room No-2 D By the side of pneumatic panel

79 In 3Ø loco, to bring isolated sub system into service (system isolated sub system), procedure is …… ( A )

**A Switch OFF and switch ON CE** B Reset concerned MCB

C Close concerned COC D Operate concerned rotating switch

80 In 3Ø loco, Status code '00' means---------- (D )

A Major fault in loco B No sub system isolated

C Minor fault in loco D **No fault and No sub system isolated**

81 In 3Ø loco, Auxiliary converter No.3 feeds …… Motors. ( D )

A TMB 1&2 B MCP-1 & 2

C OCB 1&2 **D TFP PUMP 1&2**

82 In 3Ø loco, In case of emergency, ALP can stop the train by operating …… . ( D )

A Emergency stop switch B Emergency brake valve

C BPVG D **Emergency stop switch or Emergency brake valve**

83 In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if throttle is disturbed above ……. % in TE side or BE side. ( C )

A 33% B 66%

**C 3%** D No such limit, on moving Throttle

84 WAG-9 loco is having ……type of bogie. ( C )

A Bo-Bo flexi coil B Co-Co Tri mount

**C Co-Co flexi coil** D Co-Co tetra mount high adhesion

85 3Ø loco having … number of single phase 415V auxiliary motors. ( B )

A 12 **B 4**

C 8 D 13

86 In 3Ø loco, Machine room blowers & their scavenging blowers works in…… Mode(s). ( D )

A Driving mode only B Cooling mode only

C Off D **Driving mode & Cooling mode**

87 In WAG-9 or WAP-7, location of air dryer is …… ( C )

A Behind MCP-1 in left side B Between two trucks

C **Behind cattle guard-1 loco pilot side** D Behind cattle guard-1 in ALP side

88 In 3Ø loco,SS-06 belongs to …… sub system. ( A )

**A Auxiliary converter No. 1** B Auxiliary converter No. 2

C Auxiliary converter No. 3 D Traction converter No. 1

89 In 3Ø loco, Continuous glowing of LSFI indicates---------- ( B )

A Priority-1 fault
**B At least one sub system is isolated**
C Priority-2 fault
D Priority-1 fault or Priority-2 fault

90 In 3Ø loco, location of MCP-1 is …… ( D )

A In machine room No.1
B In machine room No.2
C Below machine room No.2
D **Below machine room No.1**

91 In 3Ø loco, 3Ø scavenging blower collects dust from air filters of …… & …… . ( D )

A Oil cooling blowers-1&2
B Bogie blowers-1&2
C Machine room blowers-1&2
**D Oil cooling blower & Bogie blower**

92 In 3Ø loco, to operate reverser ensure …… node information on screen and MR pressure should be more than 6.4 kg/cm2. ( C )

A FLG-504
B FLG-550
**C FLG-570**
D FLG-590

93 In 3Ø loco, when harmonic filter is isolated, speed of the train is restricted to ……. ( B )

A 60 Kmph.
**B 40 Kmph**.
C 25 Kmph.
D No such restriction

94 In 3Ø loco, location of Fire detection unit (FDU) is …… ( B )

A SB-1
**B SB-2**
C HB-2
DPanel

95 In proportional working, maximum brake cylinder pressure in WAG-9 loco is ……..kg/$cm^2$ ( B )

A 1.8 kg/$cm^2$
**B 2.5 kg/$cm^2$**
C 3.5 kg/$cm^2$
D 5 kg/$cm^2$

96 3Ø loco is having …….. No. of 3 phase auxiliary motors in loco under frame. ( B )

A 2
**B 4**
C 12
D 8

97 If RS pressure is below 5.2 Kg/cm2 and MCPs are not working, MCPA starts automatically provided BL key is in …….. position. ( C )

A "C"
B "D"
**C "C" or " D"**
D None of the above

98 In 3Ø loco before operating throttle, ensure …… node information on screen. ( D )

A FLG-504
B FLG-550
C FLG-570
**D FLG-590**

99 In 3Ø loco, SS-03 belongs to ……sub system. ( B )

A Traction bogie-1
**B Traction bogie-2**
C Main power
D Harmonic filter

100 In 3Ø loco, Oil cooling blower cools …&……Oils/ water coolant. ( C )

A SR-1 , SR-2
B TFP-1 , TFP-2
**C TFP & SR**
D Traction motors

101 In 3Ø loco, to isolate truck No.1 (traction converter-1), keep ..... switch in ..... position. ( A )

**A 154 , I position** B 154 , II position
C 154 , Auto position D 154 , I & II position

102 In 3Ø loco, if battery voltage drops to ..... volts for 30 seconds, P-2 message appears. ( A )

**A 92 Volts** B 82 Volts
C 90 Volts D 85 Volts

103 In 3Ø loco, for application of parking brakes speed should be below..... ( A )

**A 5 Kmph** B 15 Kmph
C 1.5 Kmph D Zero Kmph

104 In WAG-5, ..... out put is given to all TMs fields during RB. ( A )

**A RSI-1** B RSI-2
C Both RSI-1 & RSI-2 D None of the above

105 Location of line contactors L-1, L-2 & L-3 in WAG-7 (above 27200) & in WAP4 locos is at ..... ( A )

**A HT-1 BA-1 panel** B HT-3 BA-2 panel
C HT-3 BA-3 panel D HT-3 BA-4 panel

106 Location of line contactors L-4, L-5 & L-6 in WAG-7 (above 27200) & in WAP4 locos is at ..... ( C )

A HT-1 BA-1 panel B HT-3 BA-2 panel
**C HT-3 BA-3 panel** D HT-3 BA-4 panel

107 Location of C-118 in WAM-4 loco is at..... ( C )

A Motor chest no.2 towards carridor-1 B Motor chest no.2 towards carridor-2
**C HT-3 BA-3 panel** D HT-3 BA-2 Panel

108 Location of R-1 coc in WAG-5 loco is at ..... ( C )

A Cab-1 center locker B Near control reservoir
**C Above wheel no.4** D Cab-1 left side locker

109 Location of R-1 coc in WAG-7 loco is ..... ( B )

A Cab-1 center locker **B Near control reservoir**
C Above wheel no.4 D Cab-1 left side locker

110 Location of C2A relay valve in WAG-5,WAM4 & WAG7 (up to 27199) is at ..... ( A )

**A Behind BA box no.3** B Behind BA box no.2
C Behind BA box no.1 D Behind BA box no.4

111 Location of C2A relay valve in WAG-7 loco 27200 onwards & WAP-4 crew friendly cab locos is at ..... ( B )

A Behind BA box no.3 **B Pneumatic panel**
C Behind BA box no.1 D Behind BA box no.4

112 Location of C2B relay valve in WAG-5,WAM4 & WAG7 (up to 27199) is at ..... ( B )

A In between MR-1 & MR-2 **B In between MR-3 & MR-4**
C In between MR-2 & MR-3 D Pneumatic panel

113 Location of C2B relay valve in WAG-7 (27200 onwards) & WAP4 crew friendly cab locos is at ..... ( D )

A In between MR-1 & MR-2 B In between MR-3 & MR-4

C In between MR-2 & MR-3 **D Pneumatic panel**

114 Location of MVSL-1 in WAG-5, WAM4 & WAG7 (up to 27199) is at ..... ( A )

**A HT-2 compartment towards corridor-2** B HT-2 compartment towards corridor-1

C HT-1 compartment towards corridor-2 D HT-1 compartment towards corridor-1

115 Location of MVSL-2 in WAG-5, WAM4 & WAG7 (up to 27199) is at ..... ( B )

A HT-2 compartment towards corridor-2 **B HT-2 compartment towards corridor-1**

C HT-1 compartment towards corridor-2 D HT-1 compartment towards corridor-1

116 Location of EP-3 coc in WAG-7(27200 onwards) & WAP-4 locos is at …… ( A )

**A Near BA-4 panel** B Near BA-3 panel

C Near BA-2 panel D Near BA-1 panel

117 Location of MVSL-1 in WAG-7 loco 27200 onwards is at ……. ( A )

**A HT-1 compartment** B HT-2 compartment

C HT-3 compartment D None of the above

118 Location of MVSL-2 in WAG-7 loco 27200 onwards is at ……. ( B )

A HT-1 compartment **B HT-2 compartment**

C HT-3 compartment D None of the above

119 In conventional locos, .....reservoir pressure is used for horns ( D )

A MR1 B MR2

C MR3 **D MR4**

120 In modified locos, when additional BP cut out cock is closed in leading side, …… cab BP gauge shows '0' reading. ( A )

**A Trailing** B Leading

C In both cabs D None of the above

121 In conventional locos, .....reservoir pressure is used for creation of loco BC pressure. ( D )

A MR1 B MR2

C MR3 **D MR4**

122 In each cab A9 feed valve is having .....No. of cut out cocks ( B )

A 1 **B 2**

C 3 D 4

123 QD-2 is connected between.....and..... traction motors. ( C )

A TM4 & TM6 B TM5 & TM6

**C TM4 & TM5** D None of the above

124 In conventional locos, A8 coc Position while working with cab-2 leading is……. ( C )

A Partially open B partially closed

**C Open** D Close

125 Location of line contactors in WAG-5,WAM-4 & WAG-7(up to 27199) locos is at …… ( C )

A HT-1 BA-1 panel B HT-3 BA-2 panel

**C HT-3 BA-3 panel** D HT-3 BA-4 panel

126 Total number of loco brake cylinders in WAP-4 loco is..... ( D )

A 6 B 8

C 4 **D 12**

127 Normal pressure of SMGR is..... Kg /$cm^2$. ( A )

**A 2.5 - 3.5** B 3.0 - 2.0

C 3.5 - 4.5 D 5.0 - 3.0

128 Location of A-8 COC in WAG-7 loco above 27200 is …… ( B )

A In cab-1 below A-9 **B Pneumatic panel**

C In cab-2 below A-9 D None of the above

129 If all line contactors are not closed in WAG 5 loco, ensure.....COC is in open position. ( A )

**A EP 2 COC** B EP 1 COC

C MR 4 COC D VEAD COC

130 Location of A-8 COC in WAP-4 crew friendly locos--------- ( B )

A In cab-1 below A-9 **B Pneumatic panel**

C In cab-2 below A-9 D None of the above

131 Brake pipe pressure should be .....Kg/ $cm^2$ in locomotive and ..... Kg/ $cm^2$ in brake van of train having 58 vehicles. ( C )

A 5.0, 4.8 B 5.0, 4.9

**C 5.0, 4,7** D 5.0, 5.0

132 Minimum FP pressure Should be ..... .. Kg/ $cm^2$ in locomotive and ……. Kg/$cm^2$ in rear SLR of a 24 vehicles coaching. ( A )

**A 6.0, 5.8** B 6.0, 5.9

C 6.0, 5.7 D 6.0, 5.6

133 In WAG 7 loco, If all line contactors are not closed, ensure……cocs are in open position. ( D )

A EP 2& EP3 B EP 1& EP3

C MR 4 & EP3 **D EP 1 and EP 2**

134 In conventional locos, CP Individual safety valve setting is ……kg/ $cm^2$. ( C )

A 8 B 11.5

**C 11** D 9.5

135 When BP drops below 4.4 (in BP gauge) without A9……starts functioning. ( C )

A ACP Indication B AFL

**C Both A & B** D none of the above

136 In conventional locos, if ALP is driving from trailing cab and loco pilot is controlling from leading cab, do not exceed ……. Kmph of speed. ( A )

**A 40** B 15

C 30 D No Speed Restriction

137 In conventional locos RGEB2 is connected on ..... Pipe line. ( B )

A FP pipe **B Brake Pipe**

C Control pipe D All the above

138 QD-1 is connected between.... and ..... traction motors. ( A )

**A TM2 & TM3** B TM1 & TM3

C TM1 & TM2 D None of the above

139 In conventional locos auto Drain Valve will drain out the moisture at ……. Kg/$cm^2$ (when BLCP is closed). ( B )

A 8 **B 9.5**

C 10.5 D 11

140 Location of C-145 in WAG-7(27200 onwards) & in WAP4(with RB) is at …… ( D )

A HT-1 BA-1 panel B HT-3 BA-2 panel

C HT-3 BA-3 panel **D HT-3 BA-4 panel**

141 For lowering or for raising the pantograph in three stages ..... valve is provided. ( B )

A Panto servo motor **B Throttle valve**

C BothA & B D None of the above

142 In conventional locos, if ALP is in leading cab and Loco pilot is controlling from trailing cab, do not exceed .....Kmph of speed. ( B )

A 40 **B 15**

C 30 D No Speed Restriction

143 In conventional locos during RB, if loco brake cylinder pressure is above 1.0 kg/cm$^2$ ,…..relay will de-energise to bring GR to '0'. ( D )

A Q 51 B QVRF

C QE **D Q 50**

144 Location of VEPT-1 in crew friendly locos is …… …… ( D )

A Loco roof B Cab-1 left side locker

C Cab-1 center locker **D Cab-1 back panel**

145 The clearance between brake block and wheel tyre should be ..... mm in release position of loco brakes. ( A )

**A 10** B 5

C 15 D 20

146 The..... reservoir pressure is used for BA2 and BA3 panels in WAG5 loco. ( A )

**A control reservoir** B MR1

C MR2 D MR4

147 In conventional locos duplex check valve is set at ……kg/ cm$^2$. ( B )

A 5 **B 4.9**

C 6.5 D 8

148 In conventional locos,.....reservoir pressure is used for FP pressure creation. ( B )

A MR1 **B MR2**

C MR3 D MR4

149 When BPSW is pressed, …….. valve energizes for quick recreation of BP pressure. ( A )

**A MV4** B R6

C VEF electrical D IP

150 The normal position of air intake COC is ..... ( A )

**A Close** B Open

C Partially Open D Partially Close

151 In conventional locos, SS2 safety valve is set at ..... kg/cm$^2$. ( C )

A 10 B 11

**C 10.5** D 11.

152 Location of HQOP-1 in WAG-7 loco 27200 onwards is ..... ( A )

**A HT-1 BA-1 panel** B HT-3 BA-3 panel

C HT-3 BA-2 panel D Switch panel

153 In conventional locos proportional working pressure with A9 is .....kg/ cm$^2$. ( C )

A 2 B 2.5

**C 1.8** D 3.5

154 Normally .....colour cocs to be kept open and.....colour coc to be kept closed of air dryer. ( B )

A Red , Green **B Green , Red**

C Red, Red D Green , Green

155 In conventional locos, Air Dryer is connected between …….. &…… reservoirs. ( B )

A MR1 , MR2 **B MR2 , MR3**

C MR3 , MR4 D None of the above

156 In conventional locos, for discharging back pressure from CP delivery pipe line, …… valves are provided. ( A )

**A Un loader** B Auto drain

C Both A & B D None of the above

157 Maximum ……kg/ cm2 of pressure will go to brake cylinders of each wagon, when BP drops to '0'. ( D )

A 2 B 2.5

C 1.8 **D 3.8**

158 A-8 cut out cock position is.....in MU leading loco and ..... in MU trailing loco. ( A )

**A Open, Close** B Open, Open

C Close, Close D Close, Open

159 In BMBC system, each coach having ..... no. of brake cylinders. ( C )

A 2 B 3

**C 4** D 5

160 Maximum loco brake cylinder pressure with A9 is .....Kg/$cm^2$ and with SA-9 is ..... Kg/ $cm^2$. ( B )

A 1.8, 2.5 **B 1.8, 3.5**

C 2.0, 2.5 D 1.8, 3.8

161 Location of HQOP-2 in WAG-7 loco 27200 onwards is..... ( C )

A HT-1 BA-1 panel B HT-2 compartment

**C HT-3 BA-2 panel** D Switch panel

162 In MU locos, MU2B position in leading loco is…… and in trailing loco is..... ( C )

A Lead, Lead B Trail, Lead

**C Lead,Trail** D Trail, Trail

163 In conventional locos SS-1 safety valve setting… Kg/$cm^2$. ( D )

A 8.5 B 9

C 10.5 **D 8**

164 In conventional locos, if wipers, sanders are not working and FP pressure is not creating ..... Valve to be tapped. ( A )

**A Duplex check valve** B Double check valve

C Both A&B D None of the above

165 In conventional locos, if DJ trips during RB ..... valve destroys BP pressure automatically. ( A )

**A IP(M)** B C3W

C A9 feed D Auto drain

166 Location of A-8 COC in WAG 5 loco is …… ( A )

**A In cab-1 below A-9** B Pneumatic panel

C In cab-2 below A-9 D None of the above

167 Sensitivity of distributor valve is reduction of……. Kg/$cm^2$ amount of BP pressure with in …….seconds. ( A )

**A 0.6, 6** B 0.3, 6

C 0.6, 3 D 0.3, 60

168 In conventional dead loco, IP (M) COC must be in ..... position. ( A )

**A Close** B open

C Either close or open D None of the above

169 In conventional locos,.....pressure switch is provided on A9 control pipe line (related to AFL). ( A )

**A P1** B P2

C RGCP D RGAF

170 Leakages in formation 'BP' pipe is indicated through…… gauges in both cabs. ( D )

A MR B Loco BC

C FP **D AFI**

171 To by-pass the air dryer ..... colour cut out cock to be closed and ……colour cut out cock to be opened. ( B )

A Red, Green **B Green, Red**

C Red, Red D Green, Green

172 In air brake locos, ALP emergency brake is connected to ..... pipe line. ( A )

**A BP** B MR

C FP D BC

173 In conventional locos, .....pipeline of A9 is not having any coc in both cabs. ( C )

A MR pipe B Control pipe

**C BP pipe** D None of the above

174 When additional BP cut out cock is closed on formation side, …… pressure will not charge in to the formation. ( A )

**A BP** B FP

C MR D All the above

175 Location of CTF-3 in WAG-7 loco 27200 onwards & WAP4 (with RB) is …… ( D )

A HT-1 BA-1 panel B HT-3 BA-2 panel

C HT-3 BA-3 panel **D HT-3 BA-4 panel**

176 During BP pressure leakage in formation, …… lamp glows in signalling panel. ( C )

A LSDJ B LSP

C **LSAF** D LSB

177 In Air flow indicator, …… colour needle is called as reference needle and ..... colour needle is called as indicating needle. ( D )

A White, Red B Red, Green

C Green, Red **D Red, White**

178 Normal position of additional BP cut out cocks on either side of the loco is…… . ( A )

**A Open** B Close

C Either close or open D None of the above

179 In conventional locos, ..... Pressure switch is provided on BP pipe line (related to AFL). ( B )

A P1 **B P2**

C RGCP D RGAF

180 The C145 contactor position is..... when MP is in traction side. ( A )

**A open** B close

C either close or open D neither close nor open

181 In 58 BOXN+BV load, if 6 DVs are defective, the effective brake power is.....%. ( A )

**A (53 / 59) X 100 = 90%** B (59 / 53) X 100 = 111%

C Cannot calculate D None of the above

182 The C145 contactor position is..... when MP is in braking side. ( A )

**A close** B open

C neither close nor open D either close or open

183 Formula for effective brake power percentage is ..... ( A )

**A (Effective No. of cylinders /Total no of cylinders)X100** B (Total no of cylinders/ Effective No. of cylinders)X100

C (Effective No. of cylinders X 100) D (Total no of cylinders / 100)

184 Though MCPA is working and RS pressure is not creating, …….. drain cocks to be checked. ( D )

A EP & PT B CP &CPA

C CDC D **RS,PT & CPA**

185 For grounding conventional loco, place ZPT key in HOM box in…… position and turn it to …… position in clock wise direction. ( A )

**A 5° clock, 7°clock** B 5° clock, 6°clock

C 7° dock, 9° clock D 11° clock, 1°clock

186 When MP is in traction side, the CTF1, CTF2 & CTF3 handles position are ……. ( D )

A CTF1, CTF2 up & CTF3 down B CTF1, CTF2 down & CTF3 up

C CTF1, CTF2, CTF3 down **D CTF1, CTF2 & CTF3 up**

187 In single pipe air brake system, formation wagon / coach auxiliary reservoir is charged with ……. pressure. ( D )

A MR4 B FP

C BC **D BP**

188 In MU both locos pneumatic pressure is maintained equally through.... pipe. ( D )

A BP B FP

C BC equalising **D MR equalising**

189 In twin pipe air brake system, coaches auxiliary reservoir is charged with ……. pressure. ( B )

A MR4 **B FP**

C BC D BP

190 In conventional locos, ..... reservoir pressure is used for creation of BP pressure. ( C )

A MR 1 B MR 2

**C MR 3** D MR 4

191 In double head trailing loco , A8 coc must be in .....position. ( B )

A Open **B Close**

C Either (A) or (B) D None of the above

192 While moving conventional loco as dead, MR4 reservoir is charged with …… pressure when DV is in service (MR Eq. pipe is not connected between locos). ( A )

**A BP** B FP

C MR D None of the above

193 For single loco both side BC equalizing pipes angle coc must be in.....position. ( A )

**A Close** B Open

C Either (A) or (B) D None of the above

194 During CP efficiency test, when BPSW is pressed, BP should not drop below .....kg/$cm^2$ ( write the BP gauge reading). ( B )

A 4 **B 4.4**

C 3.5 D 2.5

195 When MP is in braking side, the CTF1, CTF2 & CTF3 handles position are …….. ( B )

A CTF1, CTF2, CTF3 up **B CTF1, CTF2 & CTF3 down**

C CTF1, CTF2 down & CTF3 up D CTF1, CTF2 up & CTF3 down

196 During BP continuity test, ……kg/ $cm^2$ of BP pressure to be dropped through A9 in the loco. ( D )

A 2.5 B 3.5

C 2 **D 1**

197 During CP efficiency test, when BPSW is not pressed, BP gauge needle should show between …… and …… kg/cm2. ( A )

**A 2.5 & 3.5** B 1.5 & 2.5

C 3.0 & 3.5 D Any one of the above

198 In modified locos, when C145 contactor is closed, ……. lamp glows near Q50 relay. ( C)

A LSB B LSGR

**C LSC-145** D LSOL

199 When L1 or L6 is not closed, then ..... traction failure occurs. ( C )

A TLTE with GR progression B TLTE w/o GR progression

**C PLTE** D 1st notch auto regression with LSP

200 Auto sanding is done by the energisation of ……. Relay. ( C )

A Q44 B Q49

**C Q48** D Q50

201 When ever cattle run over takes place, if BP dropped the immediate duty of crew is to switch ON …… light. ( D )

A Head light B Cab light

C Marker light **D Flasher light**

202 When ever cattle run over takes place, after clearing the block section, the LP has to check …… voltage. ( B )

A OHE voltage **B Battery voltage**

C Charger voltage D None

203 When ever cattle run over takes place, if BP dropped due to front side BP angle cut-off cock is broken , the duty of LP is to maintain BP pressure is by closing ……. ……coc. ( C )

A MR-4 COCK B Rear side addl. BP coc

**C Front side Addl. BP angle coc** D Both side addl.BP cocs

204 Relay Q 46 is called as …….. Relay ( C )

A GR half notch protection relay B Auxiliaries protection relay

C **GR full notch protection relay** D DJ protection relay

205 Relay Q 118 is called as …….. relay. ( B )

A GR half notch protection relay **B Auxiliaries protection relay**

C GR full notch protection relay D DJ protection relay

206 On closing BLDJ, pressing BLRDJ, LSDJ remains glowing means ……. Tripping failure. ( B )

A Operation A beginning **B ICDJ**

C Operation A ending D Mechanical locking of DJ

207 While checking reasons for ICDJ, UBA meter shows more than 90V indicates ……..fuse(s) are in good condition. ( C )

A CCPT & CCBA B CCBA

**C ADDl. CCBA** D CCPT & CCDJ

208 To avoid ICDJ, minimum …….. kg/cm$^2$ of MR/RS pressure is required. ( B )

A 6.6 **B 6.5**

C 6 D 5.5

209 While checking the reasons for ICDJ, the panto raised condition indicates ……& ……..fuses are in good condition. ( C )

A CCDJ & CCPT B Addl CCBA & CCA

**C CCBA & CCPT** D Addl CCBA & CCDJ

210 On closing BLDJ, pressing BLRDJ, LSDJ lamp extinguishes and glows immediately is an indication for ..... tripping failure. ( D )

A Operation A ending B Operation A ending part II

C Operation B Part I **D Operation A beginning**

211 Earth fault in Q 118 relay coil causes …… fuse to melt. ( C )

A CCBA B CCDJ

**C CCPT** D Addl. CCBA

212 In VCB(DI) DJ provided locos, the DJ control circuit is not having ..... branch. ( C )

A Q 118 B MTDJ

**C EFDJ** D Q 45

213 Earth fault in Q 45 relay coil causes ..... fuse to melt. ( B )

A CCBA **B CCDJ**

C CCPT D Addl. CCBA

214 Earth fault in Q 44 relay coil causes …… fuse to melt. ( A )

**A CCPT** B CCDJ

C CCBA D Addl. CCBA

215 Earth fault in MTDJ coil causes ……fuse to melt. ( D )

A CCBA B Addl. CCBA

C CCPT **D CCDJ**

216 Earth fault in EFDJ coil causes ……fuse to melt. ( C )

A CCBA B Addl. CCBA

**C CCDJ** D CCPT

217 Earth fault in C 118 contactor coil causes ……. fuse to melt. ( A )

**A CCDJ** B Addl. CCBA

C CCPT D CCBA

218 Permanent welding of the tips of C 106 contactor causes ..... tripping failure. ( C )

A No tension B 6th notch tripping

**C ICDJ** D Operation 'O'

219 Melting of CCDJ fuse causes …… tripping failure. ( D )

A Operation 'A' ending B Operation 'O'

C Operation 'A' beginning **D ICDJ**

220 For closing of DJ ..... push button switch can be used. ( C )

A BP1DJ B BPP

**C BP2DJ** D BPR

221 Improper contact of ……. push button switch I/L causes ICDJ trouble. ( A )

**A BP1DJ** B BPP

C BP2DJ D BPR

222 In VCB(SI/Horizontal) DJ provided Locos, the DJ control circuit is having ..... no. of branches. ( C )

A 3 B 5

**C 6** D 4

223 In emergency DJ can be tripped by ALP by pressing ..... push button switch in cab-2. ( A )

**A BP1DJ** B BPP

C BP2DJ D BPR

224 Defective QVRH relay causes …… tripping failure. ( D )

A Operation I B Operation B Part I

C Operation II **D Operation 'O'**

225 Defective QPH relay causes …… tripping failure. ( B )

A Operation I B **Operation B Part 1**

C Operation II D Operation 'O'

226 LSCHBA glowing on run, but DJ is not tripped indicates …..... or ……. equipment is defective. ( A )

**A QV61 or CHBA** B ARNO or CHBA

C QCVAR or ARNO D ARNO or QV61

227 Any blower contactor not closed, causes ..... tripping failure. ( C )

A Operation I B Operation B Part I

**C Operation II** D Operation 'O'

228 Defective MVSI-1 motor causes ..... tripping failure. ( A )

**A Operation I** B Operation B Part I

C Operation II D Operation 'O'

229 Sluggish operation of GR causes tripping of DJ through ……. relay. ( B )

A Q 118 **B Q 44**

C Q 50 D Q 45

230 Struck up of GR in full notches during quick regression causes tripping of DJ through …….. relay energisation. ( A )

**A Q 46** B Q 118

C Q 44 D Q 48

231 Energisation of any safety relay, causes DJ to trip after.. seconds. ( B )

A 0.6 **B 0**

C 0.5 D 5.6

232 Defective Q 30 relay leads to ..... tripping failure. ( C )

A Operation A ending B Operation B Part I

**C Operation B Part II** D Operation 'O'

233 In VCB(SI/Vertical) DJ provided locos, the DJ control circuit is not having ..... branch. ( D )

A Q 44 B MTDJ
C Q 118 **D EFDJ**

234 The defective ARNO leads to ……tripping failure. ( A )

**A Operation A ending** B Operation B Part I
C Operation B Part II D Operation 'O'

235 To over come the Operation B part II tripping failure. ... relay is to be wedged.( C )

A Q 44 B Q 118
**C Q 45** D Q 46

236 For wedging ……. relay in DJ Control circuit, permission of TLC is necessary. ( A )

**A Q 44** B Q 118
C Q 45 D Q 46

237 After taking permission from TLC, before wedging Q-44 relay …… test is to be conducted. ( C )

A Loco brake test B LT test
**C GR efficiency test** D Traction test

238 1st notch tripping failure causes due to ..... or……. defective relays. ( D )

A QVMT 1 or QVMT 2 B QVSL 1 or QVSL 2
C QPH or QVRH **D QVSI 1 or QVSI 2**

239 When Q 45 relay is to be wedged, ensure …… trouble should not be existing in the loco. ( A )

**A Operation A ending** B Operation B Part I
C No tension D Operation A Ending part II

240 6th notch tripping is due to non closing .....contactors or their I/Ls. ( C )

A C 101 or C 102 or C 103 B C 106 or C 107 or C 108
**C C 105 or C 106 or C 107** D C 111 or C 121 or C 118

241 In VCB locos, if DJ N/O I/L parallel to C 118 N/O I/L on MTDJ branch is defective……tripping failure will occur. ( D )

A Operation A Ending B Operation B Part I
C No tension **D Operation A Ending part II**

242 In VCB locos, the C 118 N/O I/L on MTDJ branch is defective, …….. tripping failure will occur. ( A )

**A ICDJ** B Operation B Part I
C No tension D Operation A. Ending part II

243 The defective Q 30 relay causes ……tripping failure. ( B )

A Operation A ending **B Operation B Part II**
C No tension D Operation A Ending part II

244 Relay Q 45 is called as …… relay. ( C )

A DJ protection relay B Auxiliaries protection relay
**C DJ resetting relay** D Notch by notch Progression relay

245 After passing neutral section, If ICDJ is experienced, check ..... & ..... fuses. ( C )

A CCPT & CCBA B Addl. CCBA & CCPT

**C Addl. CCBA & CCBA** D CCPT & CCDJ

246 During manual operation of Q 44 relay, it should not be pressed for more than …….. seconds. ( B )

A 5.6 **B 1**

C 0.5 D 0.6

247 MTDJ (VCB type) coil is called …… coil. ( A )

**A DJ closing, holding & tripping coil** B DJ tripping coil

C DJ closing coil D DJ holding coil

248 EFDJ coil is called ..... Coil. ( C )

A DJ holding & tripping coil B DJ tripping coil

**C DJ closing coil** D None of the above

249 In case Q 45 relay is wedged, DJ will close directly by the moment …….. Switch closes. ( B )

A BLRDJ **B BLDJ**

C BP2DJ D BP1DJ

250 On switching on HBA, …….. relay in DJ control circuit will energise provided Addl. CCBA, CCBA and CCPT are in good condition. ( C )

A Q 45 B Q 44

**C Q 118** D None of the above

251 Defective MPH motor leads to …… tripping failure. ( B )

A Operation A ending **B Operation B Part** I

C No tension D Operation B Part II

252 Defective QCVAR leads to ……tripping failure. ( A )

**A Operation A Ending** B Operation B Part I

C No tension D Operation B Part II

253 Relay Q 118 is having ..... seconds of time lag. ( A )

**A 5** B 6

C 3 D 60

254 Defective QPDJ leads to ……tripping failure. ( C )

A Operation A ending B Operation B Part I

**C ICDJ** D Operation B Part II

255 If relay Q 44 is wedged, the precautions for …….. relay also to be observed along with Q 44 relay precautions. ( B )

A Q 45 **B Q 118**

C QCVAR D None of the above

256 To overcome the Q 30 relay defective trouble, ……. relay can be wedged. ( A )

**A Q 45** B Q 118

C QCVAR D None of the above

257 Relay Q 44 is having ..... seconds of time lag. ( C )

A 1 B 0.5

**C 0.6** D 2

258 When MPJ is put to forward in cab1, the J1 & J2 handles position are ……. ( D )

A J1 up, J2 down B J1 down, J2 up

C both J1,J2 down **D both J1,J2 up**

259 In Static converter loco, to work MCPs….. & …… relays should be energized. ( A )

**A QCON & QTD101** B QTD101

C QCON D Q 100

260 Time delay of QTD 101 relay is ..... seconds. ( B )

A 2 **B 5**

C 0.6 D 60

261 In SIV locos, ..... switch is to be kept on '0', in the event of external earth fault and unable to rectify and to work the train further. ( A )

**A HSIV** B HVSI

C HBA D HCHBA

262 In SIV locos, after keeping HSIV on '0' & pressing ELD bypass switch, time allowed to work the train is ……minutes. ( C )

A No time limit B 60

**C 45** D 30

263 In SIV locos, C108 contactor is provided for …….. motor. ( A )

**A AC MVRF** B DC MVRF

C SIV rectifier D SIV inverter

264 After using RB in SIV locos, experiencing 6th notch tripping, ensure whether ..... contactor is closed. ( B )

A C 108 **B C 107**

C C 118 D C 145

265 In Static converter locos (SIEMENS) ,..... no. of indication lamps provided on SIV Panel. ( C )

A 2 B 3

**C 5** D 4

266 Time delay of QSVM relay is .....seconds. ( B )

A 5 **B 2**

C 0.6 D 60

267 ..... & ..... safety relays are removed in static converter locos. ( D )

A QLM & QLA B QOP1 & 2

C QRSI 1 & 2 **D QOA & QLA**

268 In Microprocessor loco, if experienced TLTE due to malfunctioning of AFL/ACP circuit, change the position of ……. Switch. ( C )

A HAD B HRSZ

**C HPAR** D HBA

269 If DJ is tripped through static converter, …… Lamp glows in both the cabs. ( C )

A LSRSI B Internal fault lamp

**C LSSIT** D External fault lamp

270 To avoid QD action in microprocessor loco, ..... switch to be pressed up to 10th notch. ( A )

**A BPQD** B BPSW

C ZQWC D PSA

271 In micro processor loco, before checking any loco equipment or attending any loco trouble ensure to keep ……. switch in open position. ( C )

A HBA B HPAR

**C BLDJ** D HOBA

272 Location of CHBA ammeter in SIV locos …….. . ( A )

**A On SIV panel** B On switch panel

C On relay panel D On CHBA

273 Rating of CCINV is ..... Amps. ( A )

**A 6** B 16

C 10 D 2

274 To close all line contactors, position of EP1 & EP2 COCs in WAG7 are ……. ( B )

A EP1 & EP2 close **B EP1 & EP2 open**

C EP1 open, EP2 close D EP1 close, EP2 open

275 HRAVT is provided to isolate ....., ....., …… &……. Equipments. ( C )

A Static converter B Micro processor

**C Heaters, cab fans, NR & W/T char**ger D None of these

276 When static converter is not working ……. fuse(s) to be checked. ( D )

A CCINV B CCDJ

C CCA **D CCINV & CCA**

277 In static converter locos, ……fuses to be checked during ICDJ. ( A )

**A Add. CCBA,CCBA, CCPT & CCDJ** B Add. CCBA,CCBA, CCINV & CCA

C CCINV & CCA D None of these

278 In static converter locos compressors will start with a delay of ……..... seconds after extinguishing of LSCHBA. ( B )

A 2 **B 5**

C 60 D 45

279 In SIV locos, if LSSIT glows continuously, crew experiences …….. tripping failure. ( A )

**A ICDJ** B No Tension

C Operation 'A' Ending D None of these

280 In static converter locos during RB, ..... motor stops working and ……. motor starts working. ( A )

**A MVRH , MVRF** B MVRF , MVRH

C MPH , MVRH D None of the above

281 When SIV is working …….. relay energises. ( B )

A QSIT **B QCON**

C QCVAR D None of these

282 In micro processor loco ……fuses are removed. ( A )

**A CCDJ , CCLS, CCA & CCLSA** B CCA & CCINV

C CCINV & CCAD D CCCPU & CCBA

283 ..... & ..... time delay relays are removed in static converter locos. ( A )

**A QTD 105 & 106** B QTD 100 & 101

C QTD 107 & 108 D None of these

284 The correct preparation for traction as well as braking is supervised by .....relay. ( C )

A Q-52 B Q-51

**C Q-50** D Q-49

285 On Siemens make SIV loco panel ..... & ……. lamps glows continuously in normal working of SIV. ( B )

A LSSIT & CHBA ON **B CHBA ON & SIV** ON

C External & Internal fault D OHE out of range & SIV ON

286 .....N/C interlock is provided newly on Q118 branch of SIV DJ control circuit. ( B )

A QSIT **B QCON**

C QSVM D None of these

287 If earth fault occurs in out side of SIV, ..... lamp glows on SIV panel. ( B )

A OHE out of range **B External fault**

C Internal fault D None of the above

288 In static converter loco DJ control circuit, on MTDJ branch ..... relay interlock provided in place of QOA &QLA. ( A )

**A QSIT** B QCON

C QSVM D None of these

289 When TLTE with LSB is experienced, it indicates ……. relay not energized. ( A )

**A Q-50** B Q-51

C Q-52 D Q-48

290 In WAG-5 loco the centre pivot carries …….% of load & each side bearer carries ……..% of load. ( D )

A 40, 60 B 60, 40

C 50, 50 **D 60, 20**

291 In WAG-7 loco the side bearers nearer to the centre pivot carries …….% of vertical load & the side bearers away to the centre pivot carries …… % of vertical load. ( B )

A 40, 60 **B 60, 40**

C 50, 50 D 100, 0

292 ……numbers of brake cylinders are provided in WAG-5 or WAG-7 loco. ( A )

**A 8** B 24

C 6 D 12

293 ……&…… oil points to be checked in WAG-5 or WAM4 bogie(other than Traction motor oils). ( A )

**A Center pivot-1-no & side bearers-2nos** B load bearers 4-nos

C side bearers 4-nos D center pivot-1No, side bearers-4 nos

294 ..... type bogie provided in WAG-7 locos. ( B )

A Co-co tri mount bogie **B Co-co tetra mount high adhesion bogie**

C Co-co flexi coil bogie D Bo-bo tri mount bogie

295 ..... type bogie provided in WAP-4 locos. ( C )

A Co-co tri mount bogie B Co-co tetra mount high adhesion bogie

**C Co-co flexi coil bogie** D Bo-bo tri mount bogie

296 When hand brake is applied in WAG-5 or in WAG-7 locos, ……&…… wheels brakes gets apply. ( A )

**A No-2 both sides, no-4 one side** B No-2 both sides

C No-1 both sides, no-2 one side D No-4 both sides, no-2 one side

297 When hand brake is applied in WAP-4 locos ……wheel gets apply. ( B )

A No-2 both sides, no-4 one side **B No-2**

C No-1 both sides, no-2 one side D No-4

298 QWC relay's action is up to ..... notch, when ZQWC is pressed ( 18 shunting contactors loco). ( C )

A 20 B 15

**C 10** D 1

299 When dead loco is attached on formation, if loco brakes are not releasing proportionally, …… is to be isolated in dead loco to avoid wheel skidding. ( A )

**A C3W Valve** B C2A

C MU2B D Both cab A 9

300 Switch OFF blowers when the train is expected to stop for more than ……minutes to conserve the energy. ( C )

A 10 B 30

**C 15** D 20

301 If train is expected to stop for more than …… minutes lower the panto with the consultation of SM/SCOR. ( A )

**A 30** B 15

C 45 D 60

302 Location of hand brake in crew friendly locos is ……. ( C )

A Cab-1 left side locker B Cab-1 right side locker

**C Cab-1 on floor** D Cab-2 on floor

303 During RB, working of MVRF is indicated through ……. Lamp. ( B )

A LSAFL **B LSDBR**

C LSOL D LSGRPT

304 In Static inverter fitted loco …… lamp is provided to indicate the tripping of static inverter. ( C )

A QSIT B LSGRPT

**C LSSIT** D LSAF

305 While working with MU, If CHBA is failed in trailing loco …… & …… lamps will glow in leading loco. ( C )

A LSCHBA & LSGRPT B LSGRPT & LSOL

**C LSOL & LSCHBA** D None of the above

306 While working with MU, If tell-tale fuse is projected in leading loco …… & …… lamps will glow in leading loco. ( B )

A LSRSI & LSOL **B LSRSI & LSGRPT**

C LSOL & LSGRPT D None of the above

307 While working with MU, If tell-tale fuse is projected in trailing loco …… &…… lamps will glow in leading loco ( A )

**A LSRSI & LSOL** B LSRSI & LSGRPT

C LSOL & LSGRPT D None of the above

308 While working with MU, If Q 50 is de energised in leading loco …… & …… lamps will glow in leading loco. ( C )

A LSB & LSOL B LSOL & LSGRPT

**C LSB & LSGRPT** D None of the above

309 While working MU, If Q 50 is de energised in trailing loco …… & ……lamps will glow in leading loco. ( A )

**A LSB & LSOL** B LSOL & LSGRPT

C LSB & LSGRPT D None of the above

310 If signaling lamps are not working defect may be with ……
…….. Fuses ( D )

A CCBA & Addl.CCBA B CCPT & CCLS
C CCLC & CCBA **D Addl.CCBA & CCLS**

311 Q 20 actions are ( A )

**A Auto regression of GR, glowing of LSOV & sounding of SON** B Glowing of LSOV & sounding of SON
C Sounding of SON D None of the above

312 While working with MU …… lamp glows in healthy loco, …… lamp glows in defective loco. ( A )

**A LSOL & LSGRPT** B LSOL & LSOV
C LSGRPT & LSAFL D LSGRPT & LSOL

313 While working with MU, If DJ is tripped in leading loco …… & …… lamps will glow in leading loco. ( D )

A LSDJ & LSGRPT B LSOL & LSOV
C LSOL & LSGRPT **D LSDJ, LSCHBA, LSB,LSGR & LSGRPT**

314 While working with MU, If DJ is tripped in trailing loco …… & …… lamps will glow in leading loco. ( D )

A LSDJ & LSGRPT B LSOL & LSOL
C LSOL & LSGRPT **D LSDJ, LSCHBA, LSB & LSOL**

315 When ZQWC is pressed, QWC relay will energise only when GR is on ……. notch(es). ( C )

A '0' B '1'
**C '0' or '1'** D on & above 20th

316 While attaching loco on to formation stop the loco first at .....mts from formation. ( C )

A 10 B 15
**C 20** D 25

317 In roof mounted RB provided WAP-4 locos, revised setting of QF relay is .....Amps. ( C )

A 700 B 800
**C 850** D 900

318 After resetting BPEMS switch, operate ZPT from …… position to ……..position. ( A )

**A 0, 1** B 2, 0
C 1, 0 D 1, 2

319 Earth fault in line contactors coils causes, …… fuse to melt. ( A )

**A CCPT** B CCA
C CCDJ D CCLSA

320 In conventional locos, if VCD is not acknowledged, after 60secs, ..... will happen for next 8secs. ( B )

A Alarm will sound **B Yellow flashing light will glow**
C Auto regression and BP D All the above

Drops

321 In conventional locos, when VCD is acted, .....
.....actions will take place. ( A )

**A Auto regression and BP drops** B DJ trips
C Panto lowers D None of the above

322 In conventional locos, to acknowledge VCD, Ack. push button / paddle switch should not be pressed for more than …Secs. ( D )

A 30 B 32
C 45 **D 60**

323 When BPEMS is pressed, ..... actions will take place. ( D )

A DJ trips B Panto lowers
C BP drops **D All the above**

324 In conventional locos, VCD acknowledgment is done by operating ……. once in every 60 seconds (write any two).
( D )

A A-9 or SA-9 B Sander or horns
C Progression or regression or Ack. **D Any one of the above**

325 In conventional locos, if VCD is not acknowledged, after 68secs, ..... will happen for next 8secs. ( C )

A Alarm will sound B.Yellow flashing light will glow
C **Alarm will sound and yellow light will glow** D. Auto regression and BP drops

326 In conventional locos, before resetting VCD, ……. to be operated. ( B )

A HBA to be kept in '0' and '1' **B MP to be kept on '0'**
C ZPT to be kept in '0' and '1' D MPJ to be moved to 'N' and Then 'F'

327 In conventional locos, for resetting VCD, ..... to be pressed. ( C )

A BPP/BPR B horns
**C Ack. Or Reset button** D sanders

328 In conventional locos, in case of any malfunctioning, to isolate VCD, keep ..... switch in 'OFF' position. ( A )

**A VCD Bypass** B Reset
C Acknowledgement D None of the above

329 When ever cattle run over takes place, if BP dropped due to front side BP angle cut-off cock is broken , the duty of LP is to maintain BP pressure is by closing …… ( C )

A A8 coc B RAL coc
C **Front side Addl. BP angle coc** D A-9 coc

330 Controlling fuse for SMGR control circuit is ..... ( A )

**A CCPT** B CCA
C CCBA D CCDJ

331 Before taking notches, if Q51 is in energised condition crew experiences ..... traction failure. ( B )

A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

332 GR travelling time (0 to 32 notches) for progression is.... seconds. ( A )

**A 11 to 13** B 10 to 12
C 32 D 15

333 While operating GR manually ..... equipment to be observed. ( D )
A PHGR B RPGR
C CGR arc-chutes **D RGR**

334 For operating GR manually take out ZSMGR handle from...position. ( C )
A 6 O' clock B 7 O' clock
**C 3 O' clock** D 5 O'clock

335 While operating GR manually GR shall be rotated within …….. seconds. ( A )
**A 0.5** B 0.6
C 5 D None of above

336 When MP is moved from traction to braking side, the correct preparation for braking is ensured by glowing and extinguishing of ..... signalling lamp. ( B )
A LSP **B LSB**
C LSGR D LSRSI

337 During RB if DJ trips, ..... valve de-energises and causes destruction of BP pressure automatically. ( A )
**A IP(E)** B IP(M)
C VEF(E) D VEF(M)

338 Whenever DJ is tripped on notches GR comes to zero by... relay. ( D )
A Q52 B Q51
C Q46 **D Q50**

339 While operating GR manually MP should be placed in ....Position. ( D )
A O B +
C - **D N**

340 Auxiliary controlling relay is ..... ( D )
A Q118 B Q49
C Q119 **D Q100**

341 In EP C118 provided locos Q100 is replaced with ..... Relay. ( C )
A Q119 B Q120
**C QTD100** D Q121

342 When BLVMT is defective blowers can be started by--------- ( C )
A Wedging contactors B Changing switch position
**C Taking a notch** D Ask relief loco

343 When C107 is not closed, try by keeping ……switch on… position. ( B )
A HVRH, 2 **B HVRH, 3**
C HVRH, 1 D HVRH, 0

344 After wedging any 3 phase EM contactor ensure..... without fail. ( C )
A Proper closing of 3 tips B Motor is working
**C Both A & B** D None of above

345 ..... fuse will melt, when earth fault occurs in J1 / J2 coils. ( A )
**A CCPT** B CCBA
C CCA D CCLS

346 During RB, all traction motor fields are connected in---------- ( B )
A Parallel **B Series**
C Series-parallel D None of the above

347 While using RB ..... brakes should not be used to avoid loco wheel skidding. ( B )

A Formation(A-9) **B SA-9**
C All above D None of the above

348 If ..... number of fuses are projected in same RSI block, isolate concerned block and work further. ( A )
**A 2 or more** B 1
C All above D None of the above

349 QD actions are ( D )
A Auto regression of few notches B Auto sanding
C LSP glows **D All the above**

350 Traction motor meter connections in Cab-1 are ..... and in Cab-2 are ..... . ( A )
**A U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6**, B A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,
C A1-TM3, A2-TM4, U1-TM1, A4-TM4,U5-TM5, U6-TM6, D None of the above

351 The controlling fuse for reversers control circuit is ……. ( C )
A CCA B CCDJ
**C CCPT** D CCLS

352 When rear cab BL is not locked properly, crew experiences ……Traction failure. ( D )
A TLTE with LSB B TLTE with out LSB
C Auto regression with LSP **D 1st notch auto regression with out LSP**

353 On run when GR is on notches and CCPT is melted,…….. happens in the loco. ( D )
A Panto lowers B GR comes to zero
C DJ trips **D Both A & C**

354 When CCA is melted crew experiences ..... tripping failure. ( B )
A Operation O **B Operation-II**
C Operation-I D Operation-B part-I

355 When Q100 is not energized crew experiences …… tripping failure. ( C )
A Operation-O B Operation-I
**C Operation-II** D Operation-B part-I

356 When C106 is not closed, try by keeping …… switch on ……. position. ( D )
A HVMT-2, 2 B HVMT-2, 0
C HVMT-2, 1 **D HVMT-2, 3**

357 Purpose of Q119 is ..... . ( D )
A To enrgise VEULs B Late starting of MCP-3
C To energise VEAD **D Both A & B**

358 During RB..... valve energizes automatically to avoid proportional working. ( B )
A Auto drain **B VEF(E)**
C RGCP D VEAD

359 When notches are not progressing & regressing by MP, try with---- ( A )
**A EEC operation** B GR manual operation
C Ask for relief loco D None of the above

360 When Pacco switch is in pressed condition, crew experiences …….. traction failure. ( B )

A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

361 If Q52 is permanently energised, crew experiences ..... traction failure. ( B )
A TLTE with LSB **B TLTE without LSB**
C Auto regression with LSP D None of the above

362 In conventional locos, if CHBA is isolated, work the train for…….
hours during day time and ……. hours during night time with minimum utilization of battery supply. ( A )
**A 6, 4** B 4, 6
C 5, 4 D 6, 3

363 While changing Bi-polar switch on DC-DC converter, ..... switch to be switched off. ( B )
A BLPRF **B ZRT / ZPR**
C BLPRR D BLPRD

364 The minimum battery voltage required to energise conventional AC loco is ..... Volts. ( B )
A 50 **B 90**
C 110 D 100

365 If CCBA is melting even HOBA is in OFF position …… to be checked. ( D )
A PANTO B DJ
C CHBA **D LTBA**

366 On closing HBA and ZUBA, if UBA reads zero volts ..... fuse to be checked. ( B )
A CCBA **B Addl. CCBA**
C CCA D CCPT

367 When BPSW is pressed ..... valve energizes. ( B )
A PR1 **B MV4**
C PR2 D QWC

368 ..... relay causes Auto Regression during AFL working. ( B )
A PR1 **B PR2**
C RGEB2 D Q20

369 During A9 application ..... Relay energises and nullifies the AFL actions. ( D )
A Q-121 B Q-120
C QFL **D PR-1**

370 Length of the conventional type of Neutral section is .....meters. ( C )
A 42 B 45
**C 41** D 4.8

371 The purpose of ATD in OHE is ..... . ( A )
**A Maintains tension in OHE** B Uniform wear & tear of panto
C A & B D None of the above

372 To maintain uniform wear & tear of panto pan ……
arrangement is provided on OHE. ( B )
A ATD **B Staggering**
C Anti creep D A & B

373 Emergency telephone sockets are provided at a distance of
…….. metres along the track. ( A )

**A 1000 /900** B 1500
C 800 D 750

374 In modified locos Notch Repeater is gets supply from------- (A )
**A CHBA** B DC-DC Converter
C TFVT D ARNO

375 The controlling fuse for reversers control circuit is ……. ( C )
A CCA B CCDJ
**C CCPT** D CCLS

376 When head light is not glowing work the train with maximum ..... kmph speed during night time. ( C )
A 50 B 30
**C 40** D 60

377 Purpose of additional CCBA is …….. ( A )
**A Protects BA +ve cable** B Protects BA –ve cable
C Protects CHBA D Protects UBA

378 The OHE supply of two traction substations is separated by------- ( A )
**A Neutral section** B SP
C SSP D TSS

379 The length of PTFE neutral section is ..... meters. ( C )
A 2.8 B 4.2
**C 4.8** D 5.2

380 The zig-zag arrangement of contact wire is called as-------- ( D )
A Auto tension B Regulating
C Un-regulating **D Staggering**

381 On run, if OHE contact wire is found hanging, the immediate duty of the crew is …… ( B )
A Inform TLC **B Keep ZPT on "0" and apply Emergency brakes or press BPEMS.**
C Inform TPC D None of the above

382 If ATDs are provided at both ends of contact and catenary wires, it is known as ..... type of OHE. ( C )
A Un-regulated B Semi- regulated
**C Regulated** D Un-known

383 The purpose of the CHBA is ..... & ..... ( D )
A Charging Batteries B Supply to Arno
C Supply to all control circuits after closing DJ **D both A & C**

384 If ATDs are not provided at both ends of contact and catenary wires, it is known as ……. ( A )
**A Unregulated OHE** B Semi regulated OHE
C Regulated OHE D Un known

385 Traction motor meter connections in Cab-1 are ..... and in Cab-2 are ..... ( A )
**A U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6**, B A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,
C A1-TM3, A2-TM4, U1-TM1, D None of the above

A4-TM4,U5-TM5, U6-TM6,

386 Total no. of roof bars provided in WAG 5 loco are …… ( B )

A 6 **B 6+2**

C 4 D 4+2

387 Total no.of roof bars provided in WAP 4 loco are …… ( D )

A 6 B 6+2

C 4 **D 4+2**

388 In conventional locos, to close DJ ..... BL switches to be operated. ( C )

A BLDJ B BLRDJ

**C BLDJ, BLRDJ** D BLSN

389 In VCB type (DI) DJ, to close&maintain DJ ……electro valve(s) to be energized.( A )

**A MTDJ** B MTDJ & EFDJ

C C118 D EFDJ

390 Location of MU2B in crew friendly locos is …….. ( C )

A Motor chest no.1 B Motor chest no.2

**C Pneumatic panel** D Switch panel

391 When panto is raised and DJ is open position, …… protects roof equipment against surge voltage. ( C )

A ETTFP-1 B ET- 2

**C ET- 1** D ET TFP- 2

392 After closing DJ, …… protects main transformer against surge voltage. ( B )

A ETTFP-1 **B ET-2**

C ET-1 D ETTFP-2

393 .....Relay is called as TM output over current relay during RB. ( A )

**A QF-1 or QF-2** B QE

C QRSI-1 or QRSI-2 D None of the above

394 Arno starting phase is given through …… contactor & ……resistance. ( A )

**A C118 & R118** B C118 & RGR

C C145 & R118 D C108 & RPGR

395 Starting phase of ARNO is suppressed by……. relay. ( B )

A Q45 **B QCVAR**

C Q30 D Q44

396 Poly glass material projecting from TM vent mesh is called as ..... failure. ( C )

A Short circuit B Over current

**C Banding failure** D None of the above

397 Earth fault in MPH motor causes tripping of DJ through…….relay. ( C )

A QLA B QOP-1

**C QOA** D QRSI-1

398 If MPH motor is isolated, starting 5 minutes……Amps current and continuously……Amps current to be observed for TM. ( A )

**A 920, 500** B 500, 500

C 750, 500 D 1000, 500

399 If MVSL-2 is not working, work the train by isolating------- ( D )

A No restriction for TM B isolate bogie-2

current ratings

C Work 50% load **D Above all**

400 If MVRH motor is isolated, starting 5 minutes .....Amps current and continuously……Amps current to be observed for TM. ( A )

**A 920, 500** B 500, 500

C 1000, 750 D 1000, 500

401 In few locos in place of roof bushing bar …… is provided. ( C )

A LT cable B LT & HT cables

**C HT cable** D None

402 In conventional locos, ……motors are called direct motors. ( D )

A MPH, MVSI-1 B MVSI-2, MVSL-1

C MVSL-2 **D All the above**

403 MVMT 1 & MVMT 2 are …… type of auxiliary motors. (D )

A direct auxiliary B starts along with ARNO

C Both A & B **D remote controlled**

404 To isolate the TM-5 in WAG-7 loco, HMCS-2 has to be placed in ..... position and…… bit to be packed on –ve side of TM. ( C )

A 3, J1-10th B 3, J1-8th

**C 3, J2-10th** D 3, J2-8th

405 To isolate the TM-3 in WAP-4 loco (without RB), HMCS-1 has to be placed in …… position and ..... bit to be packed on –ve side of TM. ( D )

A 4, J1-12th B 4, J1-10th

C 4, J2-6th **D 4, J1-6th**

406 To isolate the TM-4 in WAP-4 loco (With RB), HMCS-2 has to be placed in ……position and …… bit to be packed on –ve side of TM. (B )

A 2, J2-6th **B 2, J2-8th**

C 1, J2-6th D 2, J1-8th

407 Location of IP mechanical valve with coc in crew friendly locos is..... ( C )

A Cab-1 left side locker B Motor chest no.1

**C Pneumatic panel** D Motor chest no.2

408 In WAG-5 loco during RB application, if there is earth fault in TM-6 field .....relay will act. ( A )

**A QOP-1** B QOP-2

C QRSI-1 D QE

409 After moving MP to 'P' position, .....contactor closes. ( B )

A C-107 **B C-145**

C C-118 D C-111

410 ..... relay will act when banding failure takes place in TM-1. ( C )

A QRSI B QLM

**C QOP-1** D QOP-2

411 If banding failure takes place clear the section with not exceeding..... Kmph of restricted speed. ( D )

A 40 B 25

C 10 **D 15**

412 ATFEX comes into service after closing ..... contactor. ( C )

A C-108 B C-118
C CTF-3 **D C-145**

413 .....number of shunting contactors provided in WAG-5 orWAG-7 locos. ( D )
A 24 B 16
C 22 **D 18**

414 …… relay is called traction power ciruit-1 earth fault protection relay. ( B )
A QOP-2 **B QOP-1**
C QOA D QRSI-1

415 RPS resistances are cooled by .....motor. ( C )
A MVSI-1 B MVSL-1
**C MVRH** D MVMT-1

416 RB should not be used if .....relay is wedged in energized condition. ( D )
A Q44 B Q118
C Q51 **D Q50**

417 During RB, MVRF motor gets feed from …….. TM. ( A )
**A TM-1** B TM-2
C TM-4 D TM-6

418 To isolate the TM-1 in WAG-5 loco, HMCS-1 has to be placed in .....
position and …….. bit to be packed on –ve side of TM. ( B )
A 2, J1-6th **B 2, J1-8th**
C 2, J2-8th D 3, J1-8th

## G & SR/ Accident Manual

1 Approved special instructions are issued or approved by _____ (C)
(A) COM (B) DRM **(C) CRS** (D) Sr DOM

2 Special instructions are issued by _____ (A)
**(A) Authorized Officer** (B) Controlling officer
(C) Supervisor in charge (D) All the above

3 _____is the authorized officer of South Central Railway. (B)
(A)CRS **(B) COM** (C) DRM (D) CSO

4 ____ is the normal authority to proceed on Single Line token/token less sections. (C)
(A) Starting Memo (B) T/409
**(C) Token/off aspect of LSS** (D) None

5 On Double line or on Single Line when block instrument is defective
_____ is given as ATP for the LP. (D)
(A) T/A 912 (B) T/511
(C) T/512 **(D) T/C-D 1425**

6 Block stations under Absolute Block System are sub-classified as _____ (C)
_____, _____ & _____.
(A) Flag , Crossing, Non-Crossing ,Run Through
(B) Reporting, Non Reporting, Classified, Unclassified
**(C) Class A,B,C&D**
(D) All of the above

7 BOL in TAS and MAS is _____ and _____ meters,
which shall be reckoned from _____ (B)
(A) 200-180-LSS **(B) 400 -180-FSS**
(C) 120-120-LSS (D) 200-180 -FSS

8 SOL in TAS and MAS is _____ and _____ meters. (C)
(A) 120-120 (B) 400-180 **(C) 180-120** (D) 180-180

9 SOL is measured on Single Line from _____ and on Double Line from_____. (A)
**(A) Trailing Points-Shunting Limit Board** (B) BSLB-SLB
(C) Trailing Points -BSLB (D) LB-PB

10 The distance from Home signal to BSLB shall not be less than ___meters. (A)
**(A) 180** (B) 120 (C) 400 (D) 580

11 At Standard-I (R) interlocking station the maximum speed (B)
permitted for the train on ML is not more than _____ kmph.
(A) 15 **(B) 50** (C) 75 (D) MPS

12 At Standard-III (R) interlocking station the maximum speed
permitted for the train on ML is above _____ kmph. (C)
(A) 15 (B) 50 **(C) 140** (D) MPS

13 The maximum speed permitted on loop line is _____ kmph. (B)
(A) 15/25 **(B) 15/30** (C) 8/10 (D) 10/15

14 Isolation is necessary where the trains are permitted to go above (B)
_____ kmph at a station.
(A) 15 **(B) 50** (C) 75 (D) MPS

15 _____ is the best positive method of isolation. (D)
(A) Cut Point (B) Catch Siding
(C) Slip Siding **(D) Sand Hump**

16 Point indicator, wherever available shall show _____ during day and _____ light during night when point is set for Main line . (B)
(A) Red Target-Red **(B) White Target-White light**
(C) Green Target-Green (D) No Target-Green

17 Point indicator, wherever available shall show _____ during day and _____ light during night when point is set for Loop line. (D)
(A) White Target-White (B) Green Target – Green light
(C) No Target – White **(D) No Target - Green**

18 When Trap indicator is provided, it shall show _____ during day and _____ light during when it is in open position. (B)
(A) White Disc - White **(B) Red Disc - Red light**
(C) No Target – White (D) None of the above

19 Station limits are available between _____ signals at a Block Station (B)
(A) Inner Most **(B) Outer Most** (C) Home (D) LSS

20 At Class „D" station, station limits are available between _____ (A)
**(A) Platform Ends** (B) BSLB (C) Fog Signal Posts (D) FSS

21 On Double line, class „B" station two aspect signalling, station section lies between _____ signal to ____signal in either direction. (B)
(A) Home - Starter **(B) Home - LSS** C) Distant - LSS (D) Distant-Home

22 On Double line class "B" station Multiple Aspect Signalling station section lies between _____ to _____ signal in either direction. (C)
A) SLB-LSS (B) Home-LSS **(C)BSLB-LSS** (D) BSLB-HOME

23 Station Section is available only at _____ Station. (B)
(A)CLASS A **(B) CLASS B** (C)CLASS C (D) CLASS

24 Sub-Rules are framed by _____. (A)
**(A) Authorized Officer** (B) Reporting Officer
(C) Competent Authority (D) DRM

25 General Rules can be amended by (A)
**(A)Railway Board** (B) Railway Tribunal
(C)Joint consultant machinery (D) GM

26 South Central Railway is divided into _____ Zones for the purpose of Weather Warning. (A)
**(A) 8** (B) 7 (C) 9 (D) 1

27 Heavy winds above _____ kmph is considered as dangerous for running trains.. (A)
**(A) 65** (B) 45 (C)30 (D) 25

28 Rainfall above _____ cross in 24 hours is considered as dangerous for running trains. (A)
**(A) 5CM** (B)6 CM (C) 7CM (D)8CM

29 When there is severe storm endangering the safety of passenger trains, SM shall not _____ or _____ (C)
(A)Exchange of all right signal (B) Take OFF LSS or Take off Starter
(**C) Grant LC or Give LC** (D) None of the above

30 If train parting is observed by any Railway Servant _____ signal should not be exhibited. (B)
(A) Right **(B) Danger** (C) No (D) None

31 At non-interlocked station, speed of the trains on main line shall not exceed _____ kmph. (A)
**(A)15** (B)20 (C)35 (D) 45

32 Block forward and Block back is permitted only on _____ (B)
(A)Single Line **(B) Double Line**
(C) Triple Line (D) None

33 Axle counters and track circuits are treated as authorized _____. (A)
**(A)Means of Communication** (B) Means of Knowledge
(C)Means of Transportation (D) None

34 A train, which has started under an ATP and has not completed its journey, is called _____. (C)
(A)SOL (B) POL **(C) TOL** (D) None

35 A fixed stop signal of a station controlling the entry of trains into next block section is called _____. (C)
(A) FSS (B) STARTER **(C) LSS** (D) None

36 Signals used for controlling movement of trains as per G & SR are _____ and _____. (A)
**(A)Fixed, Hand, Detonating, Flare** (B) FSS, HOME, LSS
(C)Shunt Signals and Calling ON (D) None

37 An independent Warner signal will have a _____ light above the signal at a distance of _____ (B)
(A) 1.2 MTS **(B) 1.5MTS** (C) 2.0 MTS (D) 1.0 MTS

38 In double distant territory if ID showing proceed aspect indicates (A)
**(A)Next Block section is clear and passing through station mainline**
(B)Station Section is clear (C) Main Line Occupied (D) None

39 At a class „B" station, Warner signal is required only when the speeds of trains exceeds _____ kmph. (D)
(A) 40 (B) 25 (C) 15 **(D) 50**

40 In colour light area distant signals are identified by (D)
(A)S-Marker (B) T marker (C) G marker **(D) P marker**

41 Distant signal tells about the aspect of _____ signal ahead. (A)
(**A)STOP** (B) PROCEDE C) ATTENTION (D) DANGER

42 In semaphore distant signal, the distant between two yellow lights in "attention" aspect is _____. (A)
**(A) 1.5 METERS** (B) 2.0METERS
(C) 3.0 METERS (D) 4.5 METERS

43 Distant signal location is _____ meters before the stop signal. (A)
**(A)Not less than 1000 meters** (B) not less than 500 meters
(C)Not less than 200 meters (D) Not less than 1500 meters

44 Wherever double distant signal is provided, distant signal location is _____ meters before the stop signal. (A)
(**A)Not less than 2000 meters** (B) not less than 500 meters
(C)Not less than 200 meters (D) Not less than 1500 meterss

45 The normal aspect of distant signal on double distant signal area is _____aspect. (B)
(A) Caution **(B) Attention** (C) Danger (D) Proceed

46 _____is not required wherever double distant signal is provided. (A)
**(A)Signal warning board** (B) Outer (C) Distant (D) LSS

47 When colour light distant is combined with Gate / LSS, the normal aspect of that signal is _____. (B)
(A)Proceed **(B) Danger** (C) Caution (D) Attention

48 Outer signal is available only at _____ station with _____ type of signals (B)
(A) Class A-MAS **(B) Class B-TAS** (C) Class D-MAS (D) Class C-TAS

49 At a class „B" station, Single line with MAS, the distance from home signal to outermost facing point shall be not less than _____ meters. (A)
**(A) 300** (B) 200 (C) 500 (D) 180

50 In MAS, a single arm home signal is sufficient (common Home) as long as the train speed does not exceed _____ kmph. (C)
(A) 50 (B) 65 **(C) 75** (D) 15

51 Starter signal protects _____ (B)
(A) Facing Points **(B) Trailing Points** (C) Block Section (D) Station section

52 Advanced Starter signal protects _____ (B)
(A)Station section **(B) Block section** (C) Signalling section (D) None

53 To start a train from a station having common starter, the LP shall be given _____ + _____+ _____. (A)
**(A)T/ 512, ATP, PHS** (B) T/511, ATP, PHS
(C)T/409, ATP, PHS (D)T/369 3(b),ATP,PHS

54 Emergency telephone point is located at every _____ meters in OHE area. (A)
**(A) 1000** (B) 1500 (C) 900 (D) 1600

55 General target time for turning out MRV with direct /indirect despatch facility is _____ minutes. (B)
A)30/45 **B) 15/20** C) 20/15 D)5/10

56 Accidents are classified into ------- categories and they are (C)
A)2 B)3 **C)5** D)4

57 General target time for turning out ART during day / night is _____ minutes. (A)
**A)30/45** B) 15/20 C) 20/15 D)5/10

58 Except _____ signal, the calling ON signal can be placed below any stop signal. (B)
(A)FSS **(B) LSS** (C) Starter (D) Calling on

59 Except _____ signal, shunt signal can be placed below any stop signal. (A)
**A)FSS** (B) LSS (C) Starter (D) Calling on

60 Calling ON signal will show _____ light in "ON" position. (D)
(A) Red (B) Green (C) White **(D) No**

61 Calling ON signal is to be used only on two occasions, they are____ and____ . (A)
**(A) Signal is defective, Line is occupied** (B) Point failure, on inter locking working
(C) Derailments, accidents (D)None of the above

62 Signal sighting committee comprises of ____, ____, and _____**.** (B)
(A)TI,LI,PWI **(B)LI,SI,TI** (C)LI,PWI,SI (D)SS,LI,TI

63 Signal sighting committee will go on footplate inspection once in _____months. (A)
**(A) 3** (B) 2 (C) 4 (D) 5

64 Calling ON signal cannot be taken "OFF" during _____ failure. (C)
(A) Signal (B) Track **(C) Point** (D) Block instruments

65 Shunt signal below starter will show _____ light in "ON"position. (D)
(A)Red (B) Green (C) White **(D) No**

66 Shunt signal protects _____. (A)
**(A)Points** (B) Track (C) Signal (D) None

67 Independent shunt signal or shunt below stop signal when defective _____ is the authority to pass at "ON" for LP. (A)
**(A)T/369 3(b)+PHS** (B) T/409 (C)T/512 (D)T/511

68 Shunt signal is of _____ types, and they are _____ and _____ (B)
(A) 2, Colour Light, semaphore **(B) 3, Miniature Arm, Disk, Position**
(C) 1, colour light (D) none of the above

69 _____Type of shunt signals are provided only in colour light area. (A)
**(A)Position** (B) Disk (C) Miniature arm (D) All the above

70 Detailed working instructions about Shunting Permitted Indicator are available in _____. (A)
**(A)SWR** (B) TSR (C) CO (D) None

71 When Shunting Permitted Indicator is defective, _____ is the authority for the LP. (A)
(**A)T/369 3(b)+PHS** (B)T/409 (C)T/512 (D) PHS

72 Co-acting signals are also known as _____ signals. (A)
(**A)Duplicating** (B) Repeating (C) Calling on (D) All of the above

73 _____ type of signal will not show any light in any position at any time. (A)
**(A)Banner type repeating** (B) Calling ON
(C)Co acting (D) All the above

74 When LP finds that the repeating signals in any way defective, he shall report the matter to _____. (C)
(A)Next reporting station (B) Rear Station
(**C)Next Stopping Station** (D) Crew Lobby

75 At the end of semaphore arm having a black ring denotes, that signal is for _____. (A)
**(A) Goods lines** (B) Passenger Lines (C) Loop lines (D) None

76 IB signal is identified by _____ (C)
(A)ID Marker (B)P marker **(C) IB Marker** (D)C Marker

77 IB signal will have _____ facility. (A)
**(A)Phone Facility** (B) Calling ON (C)Axle counter (D) All the above

78 Gate signal is identified by _____. (A)
**(A) G Marker** (B) P marker (C) IB Marker (D) ID Marker

79 Route indicators are treated as _____. (B)
(A) Permissive (**B) Stop Signals** (C) Duplicating (D) Repeating

80 Route indicators are of __ types and they are (a) ____, (b)____, (c) _____. (A)
(**A) 3, multiple, stencil, Junction** (B) 2, colour light, semaphore
(C) All the above (D) none of the above

81 There are four types of Electric repeaters and they are (a)_____ (b) _____ (c) _____ (d) _____. (A)
**(A) Signal arm, Signal light, Miniature light, Light emitting diode type**
(B) Stencil, junction, multiple, Semaphore
C) Reception, dispatch, admission, junction
(D) None of the above

82 The electrical repeaters of a departure signal when defective, the corresponding _____shall also be treated as _____ immediately. (B)
(A) Points -defective **(B) signal-defective**
(C) line-defective (D) track -defective

83 The backlight of the signal is visible only in _____ position. (A)
**(A) ON** (B) OFF (C) Defective (D) working

84 Shunting limit board is provided at _____. (A)
(**A) Class-B** (B) Class-A (C) Class-C (D) Class-D

85 Block Section Limit Board is provided at _____ station with _____ signals where the first point is a trailing point or where there are _____ . (B)
(A)Class B, TAS, No signals **(B) Class B, MAS, No points**
(C) Class A, TAS, No signals (D) none of the above

86 Outlying siding points are identified by _____ mark board. (B)
(A) P **(B) S** (C) IB (D) G

87 Detailed working instructions about outlying siding are incorporated in _____. (A)
**(A) SWR** (B) TSR (C) PNR (D) None of the above

88 A signal which is taken "OFF" for a train will be put to "ON" position only to _____ or when information about engine failure is received. (B)
(A) Issue emergency caution order **(B) Avert accident**
(C) give precedence to other train (D) none of the above

89 Home signal lever / switch will be normalized after the passage of_____ . (C)
(A) Goods train (B) Passenger Train **(C) Whole train** (D) none of the above

90 The reception stop signal shall be tested by SM ___ and pass the remarks in ___. (C)
(A) Monthly, SWR (B) Weekly,SWR
**(C)Daily, Station Dairy** (D) All the above

91 Whenever signal inspector is testing the signal, the remark shall be recorded __. (C)
(A) SWR (B) SR **(C) Station Diary** (D) All the above

92 _____ No. of detonators shall be placed at a distance of _____ meters from the in Automatic Block System to stop a train "Out of Course". (B)
(A) 3,120 **(B) 2,180** (C) 1,120 (D) none of the above

93 Normal setting of points is for _____. (A)
**(A) Main Line** (B) Loop Line (C) common loop (D) Branch line

94 On single line, immediately after the arrival of a stopping train, the in _____ and in _____ shall be set against the _____. (A)
**(A) front, rear, line train occupied** (B) front, rear, loop line
(C) Front, rear, mainline (D) none of the above

95 On double line after the arrival the stopping train, the point's _____ will be set against the _____. (C)
(A) Front, rear, mainline (B) front, rear, loop line
(**C) Rear, line train occupied** (D) none of the above

96 When all the lines at a station are blocked by passenger carrying trains, and still line clear is granted for a train, the points shall be set for _____. (A)
**(A) Turnout preferably express** (B) turnout preferably passenger
(C) Turnout preferably engine fouling (D) none of the above

97 To receive a stopping train on loop line having sand hump or buffer stop, the points must be set for _____ only. (B)
(A) Main line **(B) sand hump** (C) None of the above ( D) A & B

98 _____, _____, _____ signals are prohibited to be used for shunting purpose. (C)
(A) Calling ON, Starter and LSS (B) Calling ON, Home and Starter
**(C) LSS, Home and Outer** (D) None of the above

99 When _____ glass roundel is broken in semaphore stop signal, the signal is treated as defective during _____ only. (B)
(A) Green-Night **(B) Red-Night** (C) Red- Day (D) Green-Day

100 During power block _____ trains are only permitted to run. (D)
(A) Passenger (B) Goods C) Sub-Urban **(D) Diesel**

101 Catch siding is intended to protect _____ . (C)
(A) Block section (B) Station limits **(C) Station section** (D) none of the above

102 Slip siding is intended to protect _____. (A)
**(A) Block section** (B) Station limits (C) Station section (D) none of the above

103 When there is a falling gradient of _____ towards station section the provision of catch siding is compulsory. (B)
A) 1 IN 100 **(B) 1 IN 80** C) 1 IN 200 (D) 1 IN 150

104 When there is a falling gradient of _____ towards block section the provision of slip siding is compulsory. (A)
**(A) 1 IN 100** (B) 1 IN 80 (C) 1 IN 200 (D) 1 IN 150

105 Catch / Slip siding points key can be extracted from the block Instrument, only when the block instrument is in _____. (C)
(A) Open position (B) Locked position **(C) Closed position** (D) none of the above

106 Normal setting of points wherever catch / slip sidings are provided is for _____ . (C)
(A)Main line (B) Loop line **(C) Catch/Slip sidings** (D) none of the above

107 Catch siding length shall be suitable to _____ (B)
(A)Shortest Train in section **(B) Lengthiest Train in section**
(C) None of the above (D) A & B

108 Catch and Slip siding not be used for _____ and _____ purposes. (A)
**(A) Stabling-Shunting** (B) passenger-express
(C) Goods-passenger (D) none of the above

109 Whenever points / signals / block instrument is disconnected by SI/ ESM, SM shall ensure that _____ is by SI / ESM. (B)
(A) Reconnection notice (**B) Disconnection notice**
(C) None of the above (D) A & B

110 SM shall inform cabin man / CASM / SWM under exchange of _____ whenever the points / signals / block instrument is disconnected. (C)
(A) TN (B) PC **(C) PN** (D) none of the above

111 When the disconnected signal / point is reconnected, SM shall test _____ . (B)
(A) Twice **(B) Thrice** (C) Once (D) none of the above

112 From the time of disconnection to reconnection, the trains shall be admitted by _____ method. (A)
**(A) Piloting** (B) Taking of reception signals
(C) A & B (D) none of the above

113 A green flag by day and a white light by night moved vertically as high and as low as possible indicate _____. (B)
(A) Train stalling **(B) Train parting**
(C)Shunting (D) none of the above

114 Violently waving a white light horizontally across the body of a person indicates _____. (C)
(A) Proceed (B) go slowly
**(C) Stop dead** (D) none of the above

115 Detonators are known as _____. (A)
**(A) Audible signals** (B) Visible signals
(C) Fixed signals (D) none of the above

116 VTP is painted _____ alternatively. (D)
(A) White & green (B) White & green
(C) Red & green **(D) white & yellow**

117 FSP is painted _____ alternatively. (A)
**(A) White & black** (B) White & green
(C) Red & green (D) white & yellow

118 VTP is located at _____ meters from either side of _____ (A)
**(A) 180-station building** (B) 180-outer most facing points
(C) 270-station building (D) 270-outer most signals

119 FSP is located at ____ meters from _____ signal. (D)
(A) 180-station building (B) 180-outer most facing points
(C) 270-station building **(D) 270-from FSS**

120 Give one example of indicative accident _____. (B)
(A) Loss of human life **(B) Passing signal at ON**
(C) Collision (D) Fir on Train

121 When pre-warning is given about foggy weather by SM in rear, the caution order contains the restriction of ____kmph to be observed after passing ____. (B)
(A) 25 -facing points **(B) 10-outer most signals**
(C) 60-Home (D) 15- Home

122 When LP observes foggy weather in the block section, a speed restriction of _____ kmph in Absolute Block System. (A)
**(A) 60 - 30** (B) 45 – 25 (C) 30 - 45 (D) none of the above

123 Normal life of a detonator is _____. (B)
(A) 10 years (**B) 5 years** (C) 12 years (D) 15 years

124 Testing of detonator shall be done by moving an empty wagon at a speed of _____ kmph. (D)
(A) 10 (B) 12 (C) 15 **(D) 8**

125 After testing the detonator, the life can be increased for one year subject to a maximum of _____ extensions. (C)
(A) 4 (B) 5 **(C) Unlimited after testing every year** (D) 7

126 After rear SLR _____ coaches can be attached excluding one inspection carriage other than Londa-Vasco section. (B)
(A) 3 **(B) 2** (C) 1 (D) 4

127 Fog signalman shall retain at FSP for a period of ____hours on Main line section. (C)
(A) 4 (B) 5 **(C) 3** (D) 10

128 For signal men's assurance will be taken in ___ register by SM (C)
(A) SWR (B) TN **(C) Station Dairy** (D) none of the above

129 The knowledge of the staff that is required to use detonators shall be tested by the testing officials once in _____. (A)
**(A) 3 months** (B) 4 months (C) 5 months (D) 6 months

130 _____ shall prescribe the No. of detonators which shall be kept in stock at a station. (B)
(A) TSR **(B) SWR** (C) TN (D) PN

131 If the night petrol man does not turn up even after _____ minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to _____ kmph. (A)
**(A) 15,40** (B) 15,25 (C) 20,15 (D)30,45

132 "Danger zone" means the zone lying within _____ meters of any live equipment. (A)
**(A) 2.0** (B) 2.5 (C) 1.5 (D) 3.0

133 Dead engine must be manned minimum by ___ rank employee. (B)
(A) LP **(B) ALP** (C) Guard (D) SS

134 Whenever a signal which is detecting a point becomes defective, these points are treated as _____. (B)
(A) Working **(B) defective** (C) clamped (D) padlocked

135 Whenever a signal/point/block instrument is defective, SM shall make an entry in _____. (C)
(A) SWR (B) PN **(C) TSR** (D) TN

136 Pre-warning about defective reception signal is not required when there is_____signal provision or when _____ is provided. (B)
(A) Repeating - clamping **(B) Calling ON - telephone**
(C) Co acting - VHF (D) none of the above

137 Pre-warning, when given it will be given in _____ authority. (A)
**(A) T/369(1)** (B) T/369 3(b) (C) T/512 (D) T/511

138 When Home is defective and pre-warning is given, the train shall admitted by _____. (D)
(A) Taking off Calling ON (B) taking off Shunt signal
(C) Taking of Co acting signal **(D) Piloting**

139 When train is received on Calling-ON, in podanur panel, Calling- ON cancellation takes _____ seconds. (B)
(A) 220 **(B) 240** (C) 150 (D) 120

140 When LP passes starter at "ON" partly and stopped before Advanced starter subsequently line clear is taken. _____will be given (A)
(**A) PLCT & T/369 3(b)** (B) taking off LSS
(C) Taking of Co acting signal (D) none of the above

141 When LP finds a reception stop signal in semaphore area in " OFF" condition without light, he shall observe _____. (C)
(A) Night aspect (B) taking off Shunt signal
**(C) Day aspect** (D) none of the above

142 When Warner / Distant failed in "OFF" position, SM shall arrange to depute one competent railway Servant to show _____from the defective signal. (D)
(A) PLCT (B) taking off Shunt signal
(C) Taking of Co acting signal **(D) PHS**

143 When IBS is defective ____ is the authority to start the train. (A)
**(A) PLCT + T/369 3(b)** (B) taking off LSS
(C) Taking of Co acting signal (D) PHS

144 On DL when LSS is defective _____ is the authority to start a train. (A)
**(A) PLCT** (B) taking off Shunt signal
(C) Taking of Co acting signal (D) none of the above

145 When IBS is at "ON" and the telephone is out of order, LP after waiting for _____ minutes shall proceed at speed of _____ when view is clear / not clear up to next stop signal. (B)
(A) 10-10/8 KMPH **(B) 5-15/8 KMPH**
(C) 25-25/8 KMPH (D) none of the above

146 When LP passes IBS in "OFF" position, _____ indication will appear after which block instrument is to be put in _____ position. (B)
(A) K1-SOL **(B) K2-TOL**
(C) K3-POL (D) none of the above

147 Whenever axle counter of IBS is functioning improperly, SM in rear with the co-operation of SM in advance shall operate ____ buttons to reset axle counter. (A)
(**A) PB2 in co-op PB3** (B) PB4 in co-op PB3
(C) A & B (D) none of the above

148 Wherever IBS is provided, LSS is interlocked with _____and IBS is interlocked with _____. (B)
(A) FSS-LSS **(B) Axle counters-Block section**
(C) Calling on-co acting (D) none of the above

149 Whenever colour light signal is flickering / bobbing and does not pickup a steady aspect at least for ____ time, the signal shall be treated as defective. (A)
**(A) 60 seconds** (B) 120 seconds (C) 180 seconds (D) none of the above

150 Signal warning board is located at a distance of ____meters before a stop signal. (C)
(A) 1500 meters (B) 1200 meters **(C) 1400 meters** (D) none of the above

151 After exploding the detonator, the LP shall proceed cautiously up to a distance of _____ and can pick-up normal speed if there is no obstruction beyond that distance. (B)
(A) 1.2 km **(B) 1.5 km** (C) 2.0 km (D) none of the above

152 The LP and Guard will be given _____No. of LR trips to work in Ghat area. (C)
(A) 3 (B) 2 **(C) 6** (D) none of the above

153 Gate-cum-Distant signal will be located at a distance of _____ meters before the gate. (B)
(A) 120 **(B) 180** (C) 240 (D) none of the above

154 "G" marker on a gate signal is eliminated when there is a _____between Gate stop signal and gate. (B)
(A) Gate **(B) Bridge** (C) Points (D) none of the above

155 When there is no response from Gateman, the SM shall stop the train and issue _____. (A)
**(A) C.O to observe gate rules** (B) PLCT
(C) Written memo (D) none of the above

156 TI/SM/PWI shall test detonators once in _____ (B)
(A) four months **(B) three months** (C) one month (D) none of the above

157 The speed of train on 1 in 81/2 turnout is _____ kmph. (B)
(A) 8 **(B) 10** (C) 15 (D) none of the above

158 The speed of goods train while entering goods terminal yard is restricted to _____ kmph. (B)
(A) 8 **(B) 10** (C) 15 (D) none of the above

159 When a signal is newly erected or shifted, it shall be jointly inspected by ____ . (A)
(A) SI,TI &LI (B) PWI ,TI&SI (C) PWI ,TI&LI (D) none of the above

160 When a signal is newly erected or shifted, caution order shall be given for a period of _____ days. (B)
(A) 8 **(B) 90** (C) 15 (D) none of the above

161 Colour light repeating signal is identified by _____ (C)
(A) A Marker (B) S Marker **(C) illuminated R marker** (D) none

162 In Co-acting signal, the top one is known as main arm and the bottom one is known as _____ arm. (C)
(A) Calling on (B) duplicating **(C) Co acting** (D) none

163 When IB distant fails in "OFF" position _____ is the authority for trains before dispatching. (A)
**(A) PLCT+T/369.3(b)** (B) taking off Shunt signal
(C) Taking of Co acting signal (D) none of the above

164 When IBS is at "ON" the LP shall stop the train at IB and contact _____ by IB Phone. (B)
(A) Front station master **(B) rear station master**
(C) Guard of the train (D) none of the above

165 Inner Distant signal is identified by _____. (A)
**(A) ID Marker** (B) IB marker (C) P marker (D) none

166 Semaphore distant is painted _____ and the end of the arm is _____ . (B)
(A) white-cross tail **(B) yellow- fish tail**
(C) green-rectangular (D) none of the above

167 Station Warner's "OFF" aspect is interlocked with _____ (C)
(A) FSS (B) Shunt signal (**C) LSS** (D) none of the above

168 At station where there is common Home or at station where there are no starters, _____ is required. (A)
**(A) Point indicators** (B) Shunt signals
(C) Co acting signals (D) none of the above

169 At a class "C" station on DL when home signal is defective _____ is the authority to pass at "ON" position. (C)
(A) Calling on signal (B) taking off Shunt signal
**(C) PLCT** (D) none of the above

170 ODC shall be allowed to be attached by a train for transport only with the prior sanction of _____. (A)
**(A) COM/CRS** (B) DRM/DOM (C) DME/DEE (D) none of the above

171 Speed of a class "C" ODC by day shall be _____ kmph. (A)
**(A) 25/15** (B) 45/30 (C) 20/10 (D) 75/15

172 When class "C" ODC is attached by a train _____, _____ and _____ shall proceed as a escort. (B)
(A) SLI,TI,SI **(B) TXR,TI,PWI** (C) PA,LI,STENO (D) none

173 ODC wagon trains shall as far as possible be received on---------line (B)
(A) Loop Line **(B) Main Line** (C) Common Loop (D) none

174 Speed of class „B" ODC on BG shall not exceed _____ kmph. (A)
**(A) 40** (B) 25 (C) 15 (D) none of the above

175 Engine pushing is not permitted without the prior permission of ----- (C)
(A) Guard (B) LI **(C) Rear Station Master** (D) none

176 When engine pushing a train and guard is travelling in brake van, which is leading, the speed shall not exceed _____ kmph, when guard is not travelling in leading vehicle, the speed shall not exceed ____ kmph. (B)
(A) 15/10 **(B) 25/8** (C) 40/25 (D) none of the above

177 When engine pushing is permitted, reception shall be made on single line by ___ (A)
**(A)Taking off signals** (B) Piloting (C)Hand signals (D)None of these

178 When head light is defective after putting marker light the train can go with a restricted speed of _____ kmph. (A)
**(A) 40** (B) 25 (C) 15 (D) none of the above

179 Side lights are dispensed for _____ and _____train. (C)
(A)mail, express (B) passenger, express
**(C)sub-urban, goods** (D)none of the above

180 An engine exclusively deployed for shunting purpose shall put on _____ colour marker lights on both sides. (B)
(A) Yellow **(B) Red** (C) No light (D) none of the above

181 Light engines or coupled light engines shall have _____ (C)
(A) BV (B) CBC **(C) LV Board** (D) none of the above

182 When leading compartment of electric engine is defective and the train is driven from trailing cab by Asst LP, the speed shall not exceed _____ kmph. (B)
(A) 50 **(B) 40** (C) 25 (D) none of the above

183 When leading compartment of electric engine is defective and the train is driven from trailing cab by LP, the speed shall not exceed _____ kmph. (C)
(A) 50 (B) 40 **(C) 15** (D) none of the above

184 In emergency a goods train without brake van or without guard is ordered by _____. (A)
**(A) Sr DOM** (B) COM (C) CEE (D) none of the above

185 Running of goods train without brake van or without guard is strictly prohibited during _____. (B)
(A) TSL **(B) TIC** (C) WINTER (D) none of the above

186 Goods train without guard shall have last _____ brake cylinders in working condition. (C)
(A) 5 (B) 7 **(C) 12** (D) none of the above

187 Running of train without guard is not permitted in ___ sections of Hubli division. (B)
(A) 1 in 100 or steeper gradient **(B) Ghat**
(C) Pilot (D) handicapped

188 When hot axle is reported by rear SM that train shall preferably be admitted on _____ line. (B)
(A) Loop line **(B) Main line** (C) Common Loop (D) none

189 _____ Number of damaged vehicles are permitted to be attached in rear of Brake van during _____ only. (C)
(A) 2- night (B) 1- night **(C) 1-day** (D) none

190 Fresh BPC is required whenever _____ No. and more vehicles are attached or detached. (C)
(A) 25 FWU (B)15 FWU **(C) 10 FWU** (D) none of the above

191 When non-CC rake train is stabled for more than _____ hours fresh BPC is required. (B)
(A) 52 **(B) 24** (C) 12 (D) none of the above

192 A goods train having 56 wagons, the BP pressure in engine shall be _____ and in BV _____. (A)
**(A) 5.0 Kg./cm$^2$-4.8 kg/cm$^2$** (B) 5.2 Kg./cm$^2$-5.0 kg/cm$^2$
(C) 5.3 Kg./cm$^2$-4.6 kg/cm$^2$ (D) none of the above

193 FP pressure in loco shall be _____ and in BV -------- (B)
(A) 6.2 kg/cm$^2$-5.7 kg/cm$^2$ **(B) 6.0 kg/cm$^2$-5.8 kg/cm$^2$**
(C) 6.1 kg/cm$^2$-5.0 kg/cm$^2$ (D) none of the above

194 A goods train having 58 wagons. The BP pressure in loco shall be _____ and in BV _____. (A)
**(A) 5.0 kg/cm$^2$-4.7 kg/cm$^2$** (B) 5.2 kg/cm$^2$-5.0 kg/cm$^2$
(C) 5.2 kg/cm$^2$-5.1 kg/cm$^2$ (D) none of the above

195 All cut off angle cocks must be in _____ position except front side of loco and rear side of LV to ensure _____. (B)
(A) closed-open **(B) open-closed** (C) isolate-open (D) none of the above

196 Empty / Load handle shall be kept in load position when the gross load is above _____ tones. (C)
(A) 45.5 (B) 44.5 **(C) 42.5** (D) none of the above

197 DV isolating handle in vertical position indicates DV is in ____ position. (A)
(**A) Working** (B) isolate (C) running (D) none of the above

198 DV isolating handle in horizontal position indicates DV is in ____ position. (B)
(A) Working **(B) isolate** (C) running (D) none of the above

199 Reduction in BP pressure causes _____. (C)
(A) Brake binding (B) wheel skidding **(C) Brake application** (D) none of the above

200 Creation of BP pressure causes _____. (A)
**(A) Brake release** (B) wheel skidding (C) Brake binding (D) none of the above

201 All _____ trains shall have Twin Pipe working. (B)
(A) Goods **(B) Coaching** (C) siding (D) none of the above

202 Within station limits where gradient is steeper than 1 in 600, to detach the loco of goods train without BV____ No. of wagons hand brakes are to be put ON. (B)
(A)6 **(B) 12** (C) 18 (D) none of the above

203 To detach loco of a goods train having BOX N / BCN / BRH, etc., minimum _____ no. of vehicles hand brake are to be applied from both ends excluding BV. (B)
(A) 15 **(B) 10** (C) 5 (D) 12

204 When SM / Station staff does not exchange “all-right” signals, the LP shall give _____ engine whistle code. (C)
(A) Two long (B) two long, one short **(C) Two short** (D) none of the above

205 Even though FSS is in OFF position, still if a LP of an incoming train stops at FSS and gives - 0 - 0 engine whistle it indicates _____. (B)
(A) Train stalled **(B) Train arrived incomplete**
(C) Train running late (D) none of the above

206 Engine whistle code 0 0 - indicates _____. (C)
(A) Train arrived incomplete (B) Train stalled
**(C) Less vacuum/Air pressure** (D) none of the above

207 When engine whistle fails on run, after clearing block section, the loco shall be attended or it shall be _____. (B)
(A) Worked further **(B) replaced**
(C) Removed (D) none of the above

208 AC SLR guard shall show all right signal to SM by _____ (A)
**(A) Putting on /off side lights** (B) no exchange
(C) Showing green light (D) none of the above

209 In token less section SM shall arrange points man to show all right signals for a run through train from _____side. (B)
(A) Station building side **(B) off side**
(C) No exchange (D) none of the above

210 When a train is held up at FSS for more than _____ minutes, the LP shall depute Asst LP to go to station. (D)
(A) 10 (B) 12 (C) 15 **(D) 5**

211 While at a station, the LP is to obey _____ orders. (C)
(A) CLI (B) SM **(C) GUARD+SM** (D) none of the above

212 Normally, the material train shall be ordered by _____ time only. (B)
(A) Night **(B) Day** (C) summer (D) none of the above

213 Material train shall be ordered to work with the permission of -------- (C)
(A) DME (B) DSO **(C) DRM** (D) none of the above

214 The BPC of a material train with UIC Bogie, airbrake stock is valid for _____ days subject to examination of the train by TXR once in _____ days. (A)
**(A)30-15** (B) 15-5 (C) 25-10 (D) none of the above

215 The required brake power of material train shall not be less than ---------- (C)
(A) 100% (B) 80% **C) 90%** (D) none of the above

216 The required brake power of passenger carrying train shall be _____ and for a CC rake goods train shall be _____ at originating station. (A)
**(A) 100%-100%** (B)85%-100% (C) 90%-50% (D) 100% - 85%

217 Whenever BPC is invalid or while clearing a stabled load, before starting_____ check shall be conducted for which _____ time is given for one four wheeler. (C)
(A) Brake power-60 seconds (B) GDR- 150 Seconds
**(C) GDR-30 seconds** (D) none of the above

218 While stabling a material train at a station, the responsibility lies with the_____ (B)
(A) LP **(B) SM/Guard** (C)Points man (D) none of the above

219 To dispatch the material train for working in the block section ATP under the system of working and _____ should be given. (A)
**(A) Memo counter signed by Guard** (B) Memo from PWI
(C) Memo from SS (D) none of the above

220 Dividing of material train in the block section where the gradient is steeper than _____ is prohibited. (C)
(A) 1 IN 150 (B) 1 IN 200 **(C) 1 IN 100** (D) none

221 The maximum speed of TTM is _____ kmph. (B)
(A) 15 **(B) 40** (C) 25 (D) none of the above

222 TTM is permitted to work in the block section only during _____ (C)
(A) Day (B) Night **(C) Line block** (D) none of the above

223 NIL caution order form no. is _____. (A)
**(A) T/A 409** (B) T/409 (C) T/512 (D) none of the above

224 Caution order form no. is _____. (A)
**(A) T/ 409** (B) T/409 (C) T/512 (D) none of the above

225 All existing caution order shall be brought forwarded by SM on every _____ (B)
(A) Night **(B) Day** (C) mid night (D) none of the above

226 On completion of caution order book, it shall be preserved for a period of ___ (A)
**(A) 12 months** (B) 15 months (C) 6 months (D) 18 months

227 As per G&SR control of shunting is done through ---------,-----,------ and---------. (C)
(A) detonating-flare signals (B) visible signals
**(C)Fixed signals, hand signals, verbal instructions** (D) none of the above

228 For shunting purpose _____, _____ and _____ signals are not to be used. (B)
(A) starter, Warner, distant **(B) outer, home,LSS**
(C) Calling on, co-acting, distant (D) none of the above

229 While shunting wagons containing explosives, the supervision for shunting shall be done by _____. (B)
(A) Guard **(B) SS** (C) Points man (D) none of the above

230 While backing a full train from one line to another via main line the shunting supervision is done by _____. (B)
(A) Guard **(B) SS** (C) Points man (D) none of the above

231 Shunting speed of explosive and POL products shall be_____ kmph. (C)
(A) 10 (B) 5 **(C) 8** (D) none of the above

232 For the purpose of shunting the points, which are not protected by signals, they must be locked by _____ or _____ method. (B)
(A) Electrical, electronic **(B) padlocking, clamping**
(C) mechanical, electrical (D) none of the above

233 While performing shunting with passenger running trains, the shunting engine or train engine with or without slip coaches, before coming on to the formation it should be stopped _____ meters before the formation. (B)
(A) 45 **(B) 20** (C) 45 (D) 30

234 To receive a train on to an obstructed line, the LP shall be given_____ Authority where there is no calling ON signal and signal post telephone. (B)
(A) T/369.3(b) **(B) T/509** (C) T/512 (D) T/511

235 While received a train on obstructed line, SM shall arrange to post one competent Railway servant to show _____ hand signal from _____ meters before the obstruction. (C)
(A) Red, 30 (B) Green, 35 **(C) Stop, 45** (D) none of the above

236 To dispatch a train from un-signalled line where tangible authority is not given as ATP, _____ authority should be given. (A)
**(A) T/511+PHS+ATP** (B) T/512 (C) T/409 (D) none of the above

237 To start a train from a station having common starter signal, in addition to ATP _____ authority should be given. (A)
**(A) T/512** (B) T/511 (C) T/409 (D) T/509

238 _____ Gradient is considered as dangerous for shunting roller bearing wagon and _____gradient for non roller bearing wagons. (A)
**(A) 1 in 400-1 in 260** (B) 1 in 100-1 in 150
(C) 1 in 300- 1 in 450 (D) none of the above

239 When 10 BOX wagons are shunted having Transition Couplers, the shunting impact speed should not exceed _____ kmph. (B)
(A) 10-15 **(B) 2-3** (C) 20-25 (D) none of the above

240 Maximum Hand shunting speed is _____ kmph. (C)
(A) 10 (B) 15 **(C) 5** (D) none of the above

241 When "Lurch" is reported by LP, the SM shall issue caution order restricting the speed to _____ kmph. (C)
(A) 10 (B) 15 **(C) 8** (D) none of the above

242 When "Lurch" is reported on DL by LP, SM shall give caution order for adjacent line trains to proceed with _____. (A)
**(A) Special caution order** (B) memo C) PWI (D) none of the above

243 Rail fracture of less than 30 mm, the speed of first train shall be ____ kmph, the speed of second and subsequent trains shall be _____ kmph. (A)
**(A) 10-15** (B) 25-8 (C) 15-40 (D) none of the above

244 Rail fracture of more than 30 mm or multiple fractures, certification shall be given by _____ and above rank. (C)
(A) DEN (B) AEN **(C) SSE/P.Way** (D) none of the above

245 During TIC on DL _____ is the ATP authorising the LP to proceed with a restricted speed of _____ kmph. (A)
**(A) T/C 602-25/10** (B) T/D 609-15/8 (C) T/A 611-10/8 (D) none of the above

246 When enquiry is made for more than one train _____ authorities are required for the light engine which is going to open communication. (B)
(A) T/C 603+T/D611 **(B) T/B 602+T/E 602** (C) T/A 602+T/G 645 (D) none of the above

247 When trains are dealt on T/C 602, the time interval between two trains shall be _____ minutes. (B)
(A) 60 **(B) 30** (C) 45 (D) none of the above

248 During TIC on SL / DL and TSL working except _____ signal, all other signals can be taken OFF. (C)
(A) FSS (B) Starter **(C) LSS** (D) none of the above

249 After opening the communication, the train speed shall be _____. (A)
**(A) Booked speed** (B) MPS (C) Cautious (D) none of the above

250 After opening communication _____ is ATP for the light engine to come back. (A)
**(A)T/G 602/T/H 602** (B)T/A602/T/I 609 (C)T/H 602/T/H 611 (D) none of the above

251 If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _____ kmph. (A)
**(A) 25/10** (B) 15/8 (C) 10/5 (D) none of the above

252 After block telephone, _____ telephone is the authorized means of communication in absolute block system. (B)
(A) VHF **(B) Station to station fixed telephone**
(C) Walkie-Talkie (D) Control

253 Light engine, which is going for opening communication, shall proceed with a restricted speed of _____ kmph. (B)
(A) 25/15 **(B) 15/10** (C) 20/8 (D) none of the above

254 When there is even flow of trains, enquiry and reply messages are sent through _____. (A)
**(A) Train LPs/guards** (B) SS (C) Points man (D) none of the above

255 On T/E 602 _____ number of trains enquiry can be made. (A)
**(A) More than one** (B) less than one (C) One (D) none of the above

256 Form No. of UP/DN CLCT is _____. (A)
**(A) T/G 602/T/H 602** (B) T/A602/T/I 609
(C) T/H 602/T/H 611 (D) none of the above

257 When motor trolley / tower car is sent for opening communication, (C)
it shall be accompanied by _____.
(A) PWI/TI (B) SSE.PWI/SI **(C) Guard/ASM** (D) none of the above

258 When goods train is dispatched on T/J 602 the speed shall not exceed ___kmph. (C)
(A) 25/8 (B) 45/25 **(C) 15/8** (D) none of the above

259 During TSL working, the speed of first train shall be ____ kmph. (A)
**(A) 25** (B) 50 (C) 15 (D) none of the above

260 During TSL working the speed of second and subsequent trains ____ shall be. (A)
**(A) Booked speed** (B) 25 KMPH (C) 15 KMPH (D) 45 KMPH

261 _____ is the authority for trains working on TSL working. (B)
(A) T/A 602 **(B) T/D 602** (C) T/C 602 (D) T/B 602

262 During TSL working the block instrument shall be kept and locked in ___ position. (A)
**(A) TOL** (B) SOL (C) POL (D) none of the above

263 If LP enters block section without authority and subsequently sends his Asst LP (B)
with a memo to SM in rear / SM in advance that SM shall give _____ and _____ .
(A) Signals, PLCT **(B) PLCT, Caution order**
(C) Memo, Signals (D) none of the above

264 When explosion sound is heard by SM and location is not known and light (B)
engine could not be sent for testing purpose, the whole train shall be allowed
to go with a restricted speed of _____ kmph.
(A) 15 **(B) 10** (C) 25 (D) 40

265 In case of fire accident in a passenger train, the first objective to (C)
be achieved is _____.
(A) Clear the section (B) detach the vehicle
**(C) Safety of the passengers** (D) ask for relief

266 The light engine which is coming on T/609 to pick up the second portion shall (C)
come with a restricted speed of _____ kmph.
(A) 40 (B) 15 **(C) 25** (D) 50

267 One important essential required for automatic block system is that (B)
it shall be provided with continuous _____or _____.
(A) track, signals **(B) track circuit, axle counters**
(C) points, signals (D) none of the above

268 The line between the block stations, when required, be divided into series (A)
of _____ sections.
**(A) Signalling** (B) Track (C) Continuous (D) none of the above

269 Fully automatic stop signal is identified by _____ board. (C)
(A) S- marker (B)P-marker **(C) A-Marker** (D) Illuminated A-marker

270 Semi-automatic stop signal is identified by _____ light. (D)
(A) S- marker (B)P-marker (C) A-Marker **(D) Illuminated A-Marker**

271 All Guards, LPs, Asst LPs, Motor men who are required to work in automatic (C)
block system shall undergo one day intensive training a certificate shall be given
once in _____months.
A) 12 (B) 5 **(C) 6** (D) 36

272 When LPs finds an automatic stop signal at ON, after Stopping for ___ minutes (A)
Day / Night shall proceed with a restricted speed of _____ kmph up to next
stop signal or up to the obstruction.
**(A) 1/2-10** (B) 2/4-15/8 (C) 5/10-12/8 (D) 3/4-25/10

273 The automatic stop signal shall not assume OFF aspect unless the line is clear not only up to the next automatic signal but also for an adequate distance of not less than _____ meters. (C)
(A) 240 (B) 150 **(C) 120** (D) 180

274 After passing an automatic signal at ON the LP of the following train hauled by any locomotive shall ensure that a minimum distance of _____ meters is maintained between his train and preceding train. (B)
(A) 240 **(B) 150** (C) 120 (D)180

275 The minimum equipment of fixed signals in automatic system on SL shall be _____ and _____ signals. (B)
(A) Distant-Home **(B) Automatic-Semi automatic**
(C) home-LSS (D) Outer- Home

276 The gate signal in automatic system is identified by _____ (D)
(A) A-Marker (B) P-Marker
(C) G-Marker **(D) illuminated A-Marker & G-Marker**

277 When LSS failed on SL automatic block system _____ is the ATP for the train and the first train, which shall go with a restricted speed of _____ kmph. (A)
**(A) PLCT, 25** (B) T/602, 15 (C)T/A602, 45 (D) none of the above

278 In automatic block system single line, when LSS fails, _____ authority is given to the Loco Pilot. (A)
**(A) PLCT & T/A 912** (B) T/D-912 (C) T/C912 (D) T/P 912

279 During prolonged failed of signals on DL the authority given in automatic signalling is ___ which authorizes the LP to go a restricted speed of _____ kmph. (B)
(A) T/A912,30 **(B) T/D912, 25** (C)T/C912, 45 (D) T/B912, 60

280 When signals and communication fails on DL, the authority given to the LP is ___. (A)
**(A) T/B912** (B) T/C912 (C) T/D912 (D) T/A912

281 The time interval between two trains during signal and communication failure on DL shall be _____ minutes. (C)
(A) 30 (B) 25 **(C) 15** (D) 45

282 The light engine, which is going to open communication, shall proceed with a restricted speed of _____ kmph. (D)
(A) 12-15 (B) 10-8 (C) 15-20 **(D) 15-10**

283 During TSL working in automatic section the first train proceeding on right line when signal and communication are working shall proceed on ____ authorities. (B)
(A) T/D 912 **(B) PLCT+T/A912** (C) T/C912 (D) T/B 912

284 During TSL working when signals and communication are working the second and sub-sequent train proceeding on right line shall proceed on _____. (C)
(A) Cautiously (B) whistling **(C)signal aspects** (D) written memo

285 All trains from wrong line during TSL working shall proceed on ____ as ATP. (D)
(A) Written memo (B) caution order (C) cautiously **(D) PLCT**

286 When train meets with an accident in automatic block system on DL and the adjacent line is obstructed, the adjacent line shall be protected as per _____ rule. (D)
(A) GR 6.06 (B) GR6.12 (C) GR6.09 (D) GR 6.03

287 In Automatic block system when the train is unable to proceed further due to accident or obstructed or due to the failure of loco, the Guard shall protect the train in rear by placing one detonator at _____ meters and two detonators at _____ meters from the point of obstruction. (A)

**(A) 90, 180** (B) 120, 150 (C) 150, 300 (D)120, 180

288 To stop of a train out of course in automatic block system __ no. of detonators are placed at ___ meters from the end of platform in direction of the train. (B)

(A) 3, 120 **(B) 2, 180** (C) 1, 120 (D) 4, 600

289 In automatic block system to dispatch a relief loco / train into the occupied block section _____ is given as the ATP for the relief loco / train. (C)

(A) T/A 912 (B) T/B 912 **(C) T/C 912** (D) T/D 912

290 In automatic block system Relief loco / train shall proceed with a restricted speed of ____ kmph. (D)

(A) 25/15 (B) 45/25 (C) 60/30 **(D)15/10**

291 Secunderabad, Kachiguda, Falaknuma, Moula Ali, Vijayawada and Krishna Canal stations are known as stations. (C)

(A) Flag (B) Non-Block **(C) Reporting** (D) Notice

292 Engineering indicators are (1) _____ (2) _____ (3)_____ (4) _____. (A)

**(A) Caution Indicators, Speed Indicators, Stop Indicators, Termination Indicators**

(B) Coasting Boards, Warning Boards, Whistle boards, LV boards

(C) A&B

(D) none of the above

293 Caution indicator is located at _____ meters before the spot on BG. (B)

(A) 1300 **(B) 1200** (C)1500 (D)2000

294 Stop indicator is located ____ meters before the stop dead and proceed speed restriction. (C)

(A) 50 (B) 20 **(C) 30** (D) 60

295 After stopping at the stop indicator, LP shall sign in the ER-7 book and proceed with _____ kmph. (C)

(A) 15 (B) 20 **(C) 10** (D) 25

296 "W/L" board before level crossing shall be provided at distance of _____ metres. (A)

**(A) 600** (B) 1200 (C) 1300 (D)1600

297 When water over tops the rail _____ shall certify by walking over and probing that the track is safe and allow the train to go at a speed not exceeding ___Kmph. (A)

**(A) PWI, 8** (B) DEN, 15 (C) SrDEN, 20 (D) Sr DOM, 30

298 Neutral section lies between _____ (C)

(A) Two Block Sections (B) Two Station Sections

**(C) Two Sub-Stations** (D) Two Junctions hall

299 The speed of the train while passing through Neutral Section not to be less than _____ kmph. (D)

(A) 45 (B)20 (C) 60 **(D) 30**

# विभागीय परीक्षाओं के लिए राजभाषा प्रश्न बैंक

**Rajbhasha Question Bank For Departmental Examinations**

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|---|---|
| 1. | What is the Official Language of Union of India? (A)<br>**a)Hindi in Devnagari Script** b) Hindi in Sanskrit Script c)Hindi d) None of the above |
| 2. | On which date Part XVII of the Constitution was passed in Parliament? (B)<br>a) 19.09.1947 **b) 14.09.1949** c) 14.07.1949 d) 19.07.1947 |
| 3. | When was Official Language Act 1963 passed? (A)<br>**a)10.05.1963** b) 10.05.1967 c) 15.05.1963 d) 15.05.1967 |
| 4. | When was Official Language Act 1963 amended ? (A)<br>**a)1967** b)1963 c) 1947 d)1965 |
| 5. | When is "Hindi Day" celebrated every year? (D)<br>a) September 04 b) September 24 c) November 14 th **d) ) September 14** |
| 6. | According to Official Language Rules, under which region Andaman & Nicobar Islands come (A)<br>**a)Region A** b) Region C c) Region B d) None of above |
| 7. | According to Official Language Rules ,Which state comes under Region "A" ? (C)<br>a) Maharashtra b)Punjab **c) Harayana** d) Arunachala Pradesh |
| 8. | What is the Official Language of Arunachal Pradesh? (C)<br>a)Bodo b) Hindi **c) English** d) Sindhi |
| 9. | The official Languages act 1963, section 3 take effects from ? (B)<br>a) 26 January, 1963 **b) 26 January, 1965** c) 25 January, 1963 d) 25 January 1965 |
| 10. | In which part of the Constitution are the Articles 343-351 that give information about Official Language available ? (A)<br>**a)Part XVII** b) Part XVIII c) Part XIV d) Part XVI |
| 11. | Maximum how many Artists can participate in Hindi Drama Competitions? (D)<br>a) 5 Artists b) 10 Artists c) 20 Artists **d) 15 Artists** |
| 12. | How many inspections in a month are mandatory for Rajbhasha Adhikari of Railways? (A)<br>**a)One** b) Three c) Two d) Five |
| 13. | According to Official Language Rules which state coming under 'B' region? (A)<br>**a) Maharashtra** b) Jammu & Kashmir c) Jharkhand d) Nagaland |
| 14. | At present how many languages are enlisted in the Eighth Schedule of the constitution? (C)<br>a)18 b) 20 **c) 22** d) 21 |
| 15. | In which article is the provision regarding OL policy available in Part V of the constitution? (B)<br>a)Article -210 **b) Article-120** c) Article -344 d) Article – 343 |
| 16. | In which order Name, Designation and Sign Boards are to be exhibited? (D)<br>a)Trilingual (Hindi, Regional & English)<br>b)Trilingual (English, Regional & Hindi)<br>c)Trilingual (Regional, English & Hindi)<br>**d)Trilingual (Regional, Hindi & English)** |
| 17. | When was the Official Language Rules passed? (B)<br>a)1967 **b)1976** c) 1963 d)1965 |
| 18. | How many articles are there in Part XVII of the Constitution? (D)<br>a)7 b)6 c)8 **d)9** |
| 19. | In compliance of article 344 when was the Official Language Commission formed? (B)<br>a)1950 **b) 1955** c) 1956 d)1949 |

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| 20. | Who was the First Chairman of the Official Language Commission? (B)<br>a) Sri G.B. Pant **b)Sri B.G. Kher** c) Sri Lalith Narayan Mishra d) Sri Nanda Kumar |
| 21. | Who was the First Chairman of the committee which was formed on the recommendation of the Official Language commission? (A)<br>**a) Sri G.B. Pant** b)Sri B.G. Kher c) Sri Lalith Narayan Mishra d) Sri Nanda Kumar |
| 22 | As per the Constitution, who is translating the statutory rules, regulations and orders? (D)<br>a)Home Ministry b) Finance Ministry c) Prime Ministry **d) Law Ministry** |
| 23. | Which Official Language Rule mentions about the Proficiency of Hindi of the Officer/Employee (A)<br>**a)Rule-09 of Official Language Rule 1976**<br>b)Rule-06 of Official Language Rule 1976<br>c)Rule-10 of Official Language Rule 1976<br>d)Rule-08 of Official Language Rule 1976 |
| 24. | Which Article comes under Part VI ? (A)<br>**a)Article -210** b) Article-120 c) Article -344 d) Article – 343 |
| 25. | Who chaired the first Railway Hindi Salahkar Samiti constituted in 1973 (C)<br>a) Sri G.B. Pant b)Sri B.G. Kher **c) Sri Lalith Narayan Mishra** d) Sri Nanda Kumar |
| 26. | Communication from central govt office to a state or Union territory in region C or to any office Or person in such state shall be in (A)<br>**a)English** b)Hindi c)Hindi and English d)Hindi or English |
| 27. | In which year the Hindi translation of Railway Budget was prepared by the Railway Minister (C)<br>a)1950 b) 1955 **c) 1956** d)1949 |
| 28. | In which year Hindi (Parliament) section was established in Railway Board? (D)<br>a)1950 b) 1955 c) 1956 **d)1960** |
| 29. | What are the States/Union territories that comes under Region "A" ? (D)<br>a) Bihar b)Punjab c) Chhattisgarh **d) a&c** |
| 30. | What are the States/Union territories that come under Region "C" ? (A)<br>**a) Sikkim** b) Daman & diu c) Andaman & Nicobar d) Union Territory of Chandigarh |
| 31 | Article 120 related (A)<br>**a)Language to be used in Parliament**<br>b)Language to be used in the Legislature<br>c)Official Language of the union<br>d)Official languages of the state |
| 32 | Article 210 related (B)<br>a)Language to be used in Parliament<br>**b)Language to be used in the Legislature**<br>c)Official Language of the union<br>d) Languages to be used in supreme court and in the high courts and for acts bills etc |
| 33. | What is the expansion for OLIC used by Dept. of Official Language? (B)<br>a)Official Language Improvement Committee<br>**b)Official Language Implementation Committee**<br>c)Official Language Implement Committee<br>d)Official Language Implementation Commission |
| 34. | How many Hindi courses are prescribed for Central Govt. Employees? (C) |

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| | a)2 b)3 **c)4** d)5 |
| 35. | Which is the elementary Hindi course prescribed for Central Govt. Employee (B)<br>a)Praveen **b)Prabodh** c)Parangat d) Pragya |
| 36. | Who is the Chairman of Central Hindi Committee ? (C)<br>a)Home minister b) Finance Minister **c) Prime Minister** d) Diffence minister |
| 37. | When was the present Parliamentary Committee on Official Language constituted ? (B)<br>a)1967 **b)1976** c) 1968 d)1949 |
| 38. | How many members are there in the Committee of Parliamentary on Official Language? (C)<br>a) 33 b) 25 **c) 30** d) 20 |
| 39. | At present, how many Sub-Committees are there in the Parliamentary Committee on Official Language? (C)<br>a)6 b)5 **c)3** d)2 |
| 40 | Article 344 related to (D)<br>a)Directives for development of Hindi language<br>b)Languages to used in Parliament<br>c)Languages to be used in supreme court and in the high courts and for acts bills etc<br>**d)Commission and Committee of parliament on official Languages** |
| 41. | Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities? (C)<br>a)DRM b)ADRM **c) Senior most Central Govt. Officer of the city.**<br>d) Division Raja bhasha adhikari |
| 42. | What is the periodicity of the meeting of Town Official Language Implementation Committee? (A)<br>**a) Once in 6 months** b) Once in 12 months c) Twice in 6 months d) 3 times in 12 months |
| 43. | Who prepares the Annual Programme on Official Language? (D)<br>a)Ministry of Finance Affairs.<br>b)Ministry of Human Resource<br>c) Ministry of Urban devlopment<br>**d)None of the above**. |
| 44. | What are the Hindi courses prescribed for Central Govt. Employees? (B)<br>a)Prabodh, Praveen& Pragya<br>**b)Prabodh, Praveen& Pragya & Parangat**<br>c)Prabodh, Pragya & Parangat<br>d)Prabodh, Praveen, & Parangat |
| 45. | Which is the final Hindi course prescribed for Clerical cadre employees of Central Govt.? (C)<br>a)Praveen b)Prabodh **c)Parangat** d) Pragya |
| 46. | What are the training facilities available to a Central Govt. employee to get trained in the Hindi courses? (C)<br>a) Intensive, Correspondence and Private b) Regular, Intensive and Private<br>**c) Regular, Intensive, Correspondence and Private** d) Regular, Intensive, Correspondence |
| 47. | How many times the Regular Hindi exams are conducted in a year ? (A)<br>**a)2** b)3 c)4 d)1 |
| 48. | In which months Regular Hindi examinations are conducted? (A)<br>**a) May and November** b)June and December c)June and august d)July and November |
| 49 | When was first time 'World Hindi Day' is observed? (D)<br>a)10 November 2006 b)10 January, 2016 c) 10 January, 2005 **d) 10 January, 2006** |

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| 50. | Name the newly introduced course in Hindi by Hindi Teaching Scheme (C)<br>a)Praveen b)Prabodh **c)Parangat** d)None of the above |
| 51. | Who are all the employees classified under Category 'A' ? (C)<br>a)Those employees whose mother tongue is Urdu or Hindustani or its dialect<br>b)Those employees whose mother tongue is english or Hindustani or its dialect<br>**c)Those employees whose mother tongue is Hindi or Hindustani or its dialect**<br>d) Those employees whose mother tongue is Urdu, Punjabi, Kashmiri, Pusto, Sindhi or other allied languages |
| 52 | Section 3 of Official Language Act 1963 came into force on (A)<br>**(a) 26 January 1965** (b) 28 February 1965 (c) 26 January 1966 (d) 26 January 1964 |
| 53 | Which of the following is the correct English word for मंडल रेल प्रबंधक (B)<br>a)GM **b) DRM** c)ADRM d) AGM |
| 54. | Which Official Language Rule mentions about the Working knowledge of the Officer/Employee ? (C)<br>**a)** Rule-09 of Official Language Rule 1976 **c) Rule-10 of Official Language Rule 1976**<br>**b)** Rule-11 of Official Language Rule 1976 d)Rule-12 of Official Language Rule 1976 |
| 55. | From which course a category 'C' employee required to be trained (A)<br>**a)Praveen** b)Prabodh c)Parangat d)None of the above |
| 56. | From which course a category 'D' employee required to be trained? (B)<br>a)Praveen **b)Prabodh** c)Parangat d) Pragya |
| 57. | What is the Lumpsum Award for passing Pragya? (C)<br>a)2500 b)2600 **c)2400** d)None of the above |
| 58. | Which of the following is the correct English word for महाप्रबंधक (A)<br>**a)GM** b)DRM c)AGM d) ADRM |
| 59. | In which order the forms used by Public are to be prepared? (D)<br>a)Trilingual Form (1.Regional Language 2.English 3.Hindi)<br>b)Trilingual Form (1.English 2.Regional Language 2.Hindi)<br>c)Trilingual Form (1.Hindi 2.English 3. Regional Language )<br>**d)Trilingual Form (1.Regional Language 2.Hindi 3.English)** |
| 60. | In which order Rubber Stamps are to be prepared? (B)<br>a) Bilingual from-one line English and one line Hindi<br>**b) Bilingual from-one line Hindi and one line English**<br>c) Regional language<br>d) Regional Language, Hindi, English |
| 61. | Which Foreign Language included in the Eighth Schedule? (C)<br>a) Urdu b)Punjabi **c)Nepali** d) None of these |
| 62. | Who is the Chairman of the Divisional Official Language Implementation Committee? (A)<br>**A)DRM** b)ADRM c)Nominated officer by DRM d) Division Raja bhasha adhakari |
| 63. | Which Ministry/Office is conducting the exams for the Central Government employees? (C)<br>a)Hindi Teaching Scheme under Ministry of Finance Affairs.<br>b)Hindi Teaching Scheme under Ministry of Human resource<br>**c)Hindi Teaching Scheme under Ministry of Home Affairs**<br>d)Hindi Teaching Scheme under Ministry of Culture . |
| 64. | Who is the Chairman of Town Official Language Implementation Committee (Central Govt. offices)/Vijayawada? (A)<br>**a)DRM** b)ADRM c)Nominated officer by DRM d) Division Rajabhasha adhakari |

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| 65. | In which order are the Station announcements made? (D)<br>a)Trilingual (Hindi, Regional & English) b)Trilingual (English, Regional & Hindi)<br>c)Trilingual (Regional, English & Hindi) **d)Trilingual (Regional, Hindi & English)** |
| 66. | How the Panel Board of a train has to be displayed? (D)<br>a)Trilingual (Hindi, Regional & English) c)Trilingual (Regional, Hindi)<br>b)Trilingual (English, Regional & Hindi) **d) None of the above** |
| 67. | Who are eligible to undergo training in Hindi Conversation course ? (A)<br>**a) All the open line staff (including Class–IV) who come in contact with public directly.**<br>b) All the open line staff<br>c) Running staff<br>d) Office staff |
| 68. | Why training in Hindi is imparted to Central Government Officers/Employees ? (B)<br>a) By which they can speak with officers<br>**b) By which they can do their day-to-day work in Hindi.**<br>b) By which they can speak with colleague<br>d)None of the above |
| 69. | What is the duration for Hindi Conversation course in Hrs ? (D)<br>a)20 b)10 c)40 **d)30** |
| 70. | Mention the name of Rajbhasha Padak awarded to Sr.Administrative Grade or Higher Officials? (A)<br>**a)Rail Mantri Rajbhasha Rajat Padak** b)Lal Bahadur Shastri Award<br>c)Maithili Sharan Gupta Rajat Padak d) Premchand Award |
| 71. | According to Official Language Rules ,Which State comes under Region "B" ? (D)<br>a) Haryana b)Rajasthan c) Jharkhand **d) None of the above** |
| 72. | Mention the name of the Award to be given for writing story/novel writing in Hindi by Railway Board. (D)<br>a)Rail Mantri Rajbhasha Rajat Padak b)Lal Bahadur Shastri Award<br>c)Maithili Sharan Gupta Award **d) Premchand Award** |
| 73. | Mention the name of the Award to be given for writing the book of Hindi poems, by the Railway Board. (C)<br>a)Rail Mantri Rajbhasha Rajat Padak<br>b)Lal Bahadur Shastri Award<br>**c)Maithili Sharan Gupta Award**<br>d) Premchand Award |
| 74. | ¨What is the Cash Award given under Kamalapati Tripathi Rajbhasha Swarna Padak ? (A)<br>**a) ₹ 10,000** b) ₹ 1000 c) ₹ 100000 d) ₹ 1000000 |
| 75. | What is the main duty of the Committee of Parliament on Official Language? (A)<br>**a)To review the progressive use of Hindi**<br>b)To review the progressive use of Hindi and English<br>c)To review the progressive use of Hindi and state official languages<br>d)To review the progressive use of English |
| 76. | World “Hindi Day" celebrated every year on ? (B)<br>a) 11 th January **b) 10 th January** c) 12 th January d) 14 th September |
| 77. | What are the four languages that were added to the list of 18 languages of the Eighth Schedule? (D)<br>a)Bodo, Dogri, Maithili & Nepali, added.<br>b)Bodo, Sindhi , Maithili & Santhali were added. |

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| | c) Kashmiri, Dogri, Maithili & Santhali were added.<br>**d) Bodo, Dogri, Maithili & Santhali were added** |
| 78 | Nepali Language is the State Language of which state? (A)<br>**a) Sikkim** b) Bihar c) Chhatisgarh d) Himachal Pradesh |
| 79 | The Committee on Official Language consist of _____ members from Lok Sabha (D)<br>a) 15 b) 25 c) 10 **d) None of these** |
| 80 | The report of committee on official language is submitted to the (B)<br>a) Speaker of Lok Sabha **b) President** c) Vice President d) Chief Justice of India |
| 81 | The Official Language Rules 1976, is applicable on entire countries except one State? Which is that State? (B)<br>a)Kerala **b)Tamilnadu** c)Tripura d)Andhara Pradesh |
| 82 | What is the Lump sum Award for passing Pragya ? (C)<br>a)2600 b)2200 **c)2400** d)2000 |
| 83 | Article 351 related to (A)<br>**a)Directives for development of Hindi language**<br>b)Languages to used in Parliament<br>c)Languages to be used in supreme court and in the high courts and for acts bills etc<br>d)Commission and Committee of parliament on official Languages |
| 84 | Article 348 related to (C)<br>a)Directives for development of Hindi language<br>b)Languages to used in Parliament<br>**c)Languages to be used in supreme court and in the high courts and for acts bills etc**<br>d)Commission and Committee of parliament on official Languages |
| 85 | According to Official Language Rules ,Which States comes under Region "C" ? (C)<br>a) Andhra Pradesh & Gujarat b) Manipur &Punjab<br>**c) West Bengal &Meghalaya** d) None of the above |
| 86 | Which is the only Union Territory classified under Region 'B' ? (D)<br>a) Pondicherry b) Daman & Diu c) Andaman & Nicobar **d) Chandigarh** |
| 87 | According to Official Language Rules Which States comes under Region "A" ? (D)<br>a) Haryana & Mizoram b) Bihar & Meghalaya<br>c)Rajasthan & Maharashtra **d) Madhya Pradesh &Himachal Pradesh** |

## Crew Management System

1. CMS is aimed to provide _____ (D)

a Position of crew at HQ/OS
b Maintain status wise records
c PR,maintaining LR,PME details
d All of the above

2. Objectives of CMS_____ (D)
a Optimization of crew
b Monitoring of LR and training schedules
c Monitoring of 10hrs duty and HOER
d All of the above

3. What is TA_____ (B)
a Traffic Apprentices
b Traffic Advice
c Train Acknowledgement
d Train Application

4. CMS can work in _____ (A)
a Online mode
b Offline mode
c Both A and B
d None of the above

5. Who creates the TA_____ (A)
a Traffic supervisor
b BET
c CCC
d Both A and C

6. Sign-ON and Sign-OFF approval given by _____ (B)
a TNC
b Traffic supervisor
c CCC
d Not required any approval

7. Username is unique for _____ (D)
a Division Console
b Lobby Console
c Supervisor Console
d Both A and B

8. Browser for CMS reports_____ (C)
a cms.indianrail.com.in
b cms.indianrailways.gov
c cms.indianrail.gov.in
d 10.60.200.168/cmsreport

9. User password should not contain_____ (D)
a User name and user ID
b Crew ID
c Special Character
d All the above

10. Password validity period____ months (C)
a 3
b 5

c 6
d 4

11. _____is responsible for Crew booking in CMS (B)
a TNC
b Superviser
c Both
d CCC

12. Routes can be created at _____ (D)
a Depot level
b Division level
c Zonal level
d CRIS/NDLS

13. Train pulling timings are _____ for all Lobbies (B)
a Same
b Different
c Discrimination of on duty supervisor
d None of the above

14. Who is authorized for crew grading. (B)
a CCC
b CLI
c Any one of A & B
d Branch officer

15. Which one of the following is not belongs to crew biodata? (D)
a Others
b Training
c Loco competency
d Training pulling

16. In CMS LR due time can be configured at _____ level as per logic. (B)
a Zonal level
b Division level
c Lobby
d Both A & B

17. The concept of crew serve call given from station A, but crew need to sign on at station B is called ____ (B)
a Parent Lobby
b Sister Lobby
c HQ Lobby
d Both A & B

18. Process of sign on crew will be shifted to new TA is called as___ (A)
a Swapping of crew
b Swapping of TA
c Resetting of TA
d Both B & C

19. What is FAFO? (C)
a First Arrival First Out

b First Available First Off
c First Available First Out
d First Arrival First Off

20. Sorting of HQ crew depends on which logic (D)
a FAFO
b FIFO
c Progressive hours
d Any one of the above

21. _____ is called sorting of crew by arrival time. (A)
a FIFO
b FAFO
c Progressive hours
d Any one of the above

22. _____option is to be applied to get fortnight cumulative hours while crew booking (C)
a FIFO
b FAFO
c Progressive hours
d Any one of the above

23. Parameters to be checked in “Fetch crew as per Rule” is _____ (D)
a PME & G and SR
b Traction, Tech training
c LR, Rest and Loco competency
d All of the above

24. Parameters to be checked in “Fetch crew All” is _____ (D)
a PME
b G & SR
c Completion Rest
d Both A & B

25. Serving of calls to crew can be done _____ (D)
a Automatically
b Manually
c Both A & B
d Any one of A and B

26. SMS will be triggered to crew in _____call serve. (A)
a Automatic
b Manual
c Both A & B
d None of the above

27. Supervisor SignON can be done on behalf of _____ (B)
a CCC
b Crew
c Branch officer
d Both A and B

28. Difference between “Train departure time” and “Actual crew Sign ON time” is called _ (B)
a PAD
b PDD

c PCDO
d None of the above

29. Difference between “Train arrival” and “Sign ON” is called _____ (A)
a PAD
b PDD
c PCDO
d None of the above

30. If crew failed in BA test, then the crew status goes to_____ (C)
a SYSLT
b SYSRF
c SYSBAF
d SYSNF

31. Parameters for Periodical Rest (PR) due___ (D)
a Working for 7 consecutive days
b Working on 3 consecutive nights
c Working for continuous 54 hrs
d All of the above

32. For updating the CTLC/CPRC/PCR/SHDT movements, crew should be shown in ___ (B)
a Non-run
b Non-run roster
c Casualty
d None of the above

33. What is CT (A)
a Competency trails
b Crew traction
c Children transport
d None of the above

34. What is SPRT (B)
a Self-propelled relief train
b Sports
c Spare for refresher transport
d None of the above

35. REFD indicates____ (C)
a Reference drawing
b Reference drafting
c Refresher diesel
d None of the above

36. TAE indicates _ (C)
a Traffic apprentices electrical
b Territorial army employee
c Territorial army embodiment
d Both B and C

37. TJIN indicates _____ (A)
a Joining time
b Time for joint inspection

c Train arrival
d Train cancellation

38. Viewing of status and location of the crew by__ (B)
a Book crew
b Search crew
c Serve call
d A & B

39. Searching of crew can be done by___ (D)
a Crew Name
b Crew ID
c EMP. NO.
d Any one of A, B & C

40. _____ are small database queries essential to check the crew control and optimization. (C)
a CMS reports
b CMS application
c CMS alerts
d Both A and B

41. _____ gives instant updated crew position of a Lobby. (D)
a CMS reports
b CMS application
c CMS alerts
d Both A and B

42. If serve call acknowledged and crew not turned-up for duty, then crew status goes to ___ (B)
a SYSRF
b SYSLT
c SYSNF
d Remains same

43. Crew can Sign-ON/OFF by using _____ in integrated KIOSK (A)
a Biometric device
b By password
c Both compulsory
d Any one of A and B

44. No crew can Sign-ON without reading of _____ in KIOSK (D)
a Caution order
b Circulars
c Any one of A and B
d Both A and B

45. Crew cannot Sign-ON more than _____ mins before the Sign-ON time (D)
a 20
b 30
c As fed by Lobby configuration console in train pulling location
d Any one of B and C

46. Crew can Sign-OFF only in case the ____ has been approved by supervisor (B)
a Acknowledgement
b Sign-ON

c Call book
d All the above

47. If the crew didsome other work in EN-route, then the crew must opt for ____ in KIOSK (B)
a Normal Sign-OFF
b Manual Sign-OFF
c CTR entry
d Any of A and B

48. Before Sign-ON in integrated KIOSK the following are mandatory _____ (D)
a Reading of circulars
b Reading of caution orders
c Conducting of BA test
d All the above

49. If the crew reports late by 30 mins from the train departure time, crew status turns to _ (C)
a SYSRF
b SYSNF
c SYSLT
d Pending

50. The circulars are updated in _____ only (B)
a Lobby configuration
b Division configuration
c Zonal configuration
d Branch officers

**ESTABLISHMENT ON PERSONAL MATTERS**

01 The amount of maintenance grants to be granted per month (on SBF) to All Gr."C" & "D"

employees irrespective of their pay and nature of disease, subject to the sickness in Govt./Rly Hospital exceeding 15 days on LWP: (A)

**a. Rs. 3000/-** b. Rs. 1000/- c. Rs. 5000/- d. None of the above

02 The amount of Medical assistance to be granted per month(max. 3 months) under SBF to all All Gr."C" & "D" employees who themselves/their family members suffer from major diseases and chronic diseases involving major operations, on recommendation by Rly. medical authorities. (A)

**a. Rs. 2000/-** b. Rs. 3000/- c. Rs. 1000/- d. None of the above

03 Non-gazetted cadre in pay matrix level 6 and above are eligible for duty pass travel in. (A)

**a. First class** b. First class A c. Both a & b d. None of the above

04 In NPS system the contribution by the central government shall be (B)

a. 10 % basic pay plus DA **b. 14% basic pay plus DA** c. 14% basic pay d. 10% basic pay

05 Persons with disability may be granted SCL for period of _____ per calendar year. (C)

a. 10 days b. 11 days **c. 4 days** d. 3 days

06 CCL may not be granted less than _____ days at a time. (D)

a. 2 days b.3 days c. 4 days **d. 5 days**

07 As per HRC, running duty for the purpose of preparation links only should not exceed for Mail/Express. (B)

a. 7 hrs **b. 8 hrs** c. 9 hrs d. 10 hrs

08 An amount of additional allowance paid to Motorman per month (C)

a. Nil b. Rs. 750/- **c. Rs.1125/-** d. Rs. 2250/-

09 NHA for grade pay 3 to 5 (VII CPC) staff (B)

a. Rs. 384/- **b. Rs. 477/-** c. Rs. 630/- d. Rs. 747/-

10 Bungalow peon is classified under (C)

a. Intensive r b. Continuous **c. EI** d.None of the above

11 Standard hours for Intensive employment (A)

**a. 42hrs/week** b. 48 hrs/week c. 45 hrs/week d. None of the above

12 The classification of_____ employments is defined in Section 130 (a) (A)

**a. Continuous** b. Intensive c. EI d. Excluded

13 Time limit for appealing against classification is _____ days. (B)

a. 30 days **b. 90 days** c. 45days d. None of the above

14 Running staff shall be granted rest of _____ including full night in bed in a month (C)

a. 4 periods of 30 hours b. 5 periods of 22 consecutive hours

**c. Either a or b** d. None of the above

15 Expand RLC (B)

a. Regional Labour Court **b. Regional Labour Commissioner**

c. Regional Labour counsel d. None of the above

16 Payment of wages Act, 1936 came into force (A)

**a. 23.04.1936** b. 13.04.1936 c. 28.04.1936 d. 30.04.1936

17 According to ____ the wage period not to exceed one month in payment of wages act. (A)

**a. Sec. 4** b. Sec. 3 c. Sec. 2 d. Sec.1

18 The Payment of Wages (Amendment) Bill, 2017 was introduced in Lok Sabha on (C)

a. February 23, 2017 b. February 02, 2017 **c. February 03, 2017** d. February 13, 2017

19 Workmen Compensation Act, 1923 came in to force? (B)

a. 01.07.1923 **b. 01.07.1924** c. 01.01.1924 d. 01.01.1923

20 Commissioner for workmen's compensation appointed under section?

a. Section 12 b. Section 02 c. Section 01 **d. Section 20** (D)

21 In which section, amount of compensation mentioned in Workmen compensation act. (A)

**a. Sec. 4** b. Sec. 3 c. Sec. 2 d. Sec.1

22 Loco performance statics "statement -18" describes (A)

**a. Engine hours** b. Train & Engine kms c. Fuel statistics d. Train & Engine hrs

23 ' Leave Reserve' for Loco inspector is provided in the category of (B)

a. LP goods **b. LP Pass** c. LP Mail & Exp. d. CLI

24 Crew links are to be prepared based on (C)

a. Sanctioned strength b. Loco link **c. WTT** d. Rake link

25 Running staff review should be carried out for every (B)

a. Year **b. Six months** c. Two years d. Three months

26 Loco Outage means: (A)

**a. Loco outage = Engine Hours for traffic use/ 24 hrs.**

b. Loco outage = Engine KMs for traffic use/24 hrs.

c. Both a & b d. None of the above

27 Basic duty of TLC/Power controller (D)

a. To arrange motive power b. To guide running staff

c. Planning of locos to home shed for maintenance **d. All the above**

28 "Shram Suvidha Portal" is maintained by (A)

**a. Ministry of Labour & Employment in central government**

b.Ministry of Home affairs in central government

c. Ministry of HRD d. None of the above

## RS (D&A) Rules, 1968

01 Punishment norms dealt as per (B)

a. Rule No.5 **b. Rule No. 6** c. Rule No. 11 d. None of the above

02 Procedure for imposing Major penalties in which Rule of RS (D&A) Rules, 1968 (A)

**a. 9** b. 11 c. 5 d. None of the above

03 During suspension which type of allowance is eligible for running staff (C)

a. Subsistence allowance b. Average running allowance

**c. Both a & b** d. None of the above

04 Standard Form No. 5 relates to (A)

**a. Issue of major penalty** b. Issue of suspension

c. Issue of minor penalty d. Nomination of Inquiry Officer

05 Revision under which rule is to be made? (B)

a. Rule No. 21 **b. Rule No.25** c. Rule No. 9 d. None of the above

06 According to Rule No. 3.1 of RS (Conduct) Rules, 1966, every Railway Servant shall at all times; (C)

a. Maintain absolute integrity b. Maintain devotion to duty

**c. Both a & b** d. None of the above

07 Appointing authority in relation to a Railway Servant means: (D)

a. an authority who actually appointed him

b. equal or higher authority empowered to make appointments to the post

c. any other authority **d. a&b only**

08 RS (D&A) Rules are not applicable to: (D)

a. any member of All India Services b. RPF personnel

c. any person in casual employment **d. all of the above**

09 While holding enquiry, who have to fix the date, time & venue and inform the Charged employee: (A)

**a. Inquiry officer** b. Disciplinary authority

c. presenting officer d. Confidential section of the dept

10 Inquiry Officer can delegate his functions to: (D)

a. Disciplinary authority b. Defence helper

c. Presenting officer **d. He cannot delegate**

## STORES & TENDERS

01 GST is calculated on (D)

a. Basic cost of the material b. Basic cost of the material & packing charges
c. Basic cost of the raw material.
**d. Basic cost of the material + forwarding charges + freight charges**

02 Non stock indents above Rs 45 lakhs have to be approved by_____ (C)
a. JAG scale officer b. ADRM
**c. PHOD/CHOD of department** d. None of the above

03 Which of the following exercise is being monitored by railway board on regular basis; (C)
a. PL verification b. PL allocation **c. PL unification** d. PL duplication

04 Into how many climatic zones, Indian Railway is classified for supply of uniforms; (B)
a. 7 **b. 5** c. 9 d. 18

05 The plan head for stores suspense is _____. (C)
a. PH-16 b. PH-30 **c. PH-71** d. None of the above

06 Money allotted for purchase of stock items is called (D)
a. Purchase money b. Purchase balance c. Purchase suspense **d.Purchase grant**

07 The detailed distribution of budget allotment made to railway administrations is contained in ; (C)
a. Yellow book b. Green book **c. Pink Book** d. White Paper

08 As soon as the offer of the tenderer is accepted, the contractor has to deposit SD (D)
a. Within 30 days of the posting of written notice of acceptance
b. Within 25 days of receipt of the communication
c. Within 21 days of receipt of the communication
**d. Within 14 days of the posting of written notice of acceptance**

09 A firm has entered into a contract with Railway to supply an item free off any cost. In the eye of Law (B)
a. Penalty can be imposed on firm in case of failure in supply
b. **Contract is not enforceable**
c. Contract is enforceable, but penalty cannot be imposed
d. Firm should be considered in future based on supply contract

10 In case of Rate Contract (B)
a. Quantity, Rate., Consignee is stipulated **b. Only rate is stipulated**
c. Quantity and Rate is stipulated d. Quantity, rate and Delivery Period is stipulated.

11 Which among following is not a material inspecting agency: (C)
a. RDSO b. DOI **c. IRTS** d. RITES

12 What is the name of website for login in E-auction is www. ? (C)
a. indianrailways.gov. in b. scrtrso.gov.in **c. ireps.gov.in** d. None of the above

13 BSV full form (B)
a. Book sale value **b. Balance sale value** c. Balance stock value d. Bulk store value

14 In which form, Materials not required are returned to the nominated stores depot as per stores code ? (A)
(a) S – 1539 (b) S-1739 (c) S-1549 (d) S-1749

15 Disposal of scrap may be done by (D)
a. Auction b. Sale by tender c. Sale to other Govt. department and undertakings
**d. All the above**

16 Which of the following items need not to be verified (D)
a. Dunnage b. Petty consumable stores
c. Dead Stock, Tools & Plants of low value **d. All of the above**

17 Registration of firm is treated as provisional until the firm (A)

**a. has executed satisfactorily one order** b. has secured one order
c. has received one tender d. All of the above

18 First two digits in any price list No represent: (D)
a. Part Number b. Specification Number c. Drawing Number **d. Group Number**

19 Special limited tender is one where (B)
a. Number of firms is just one **b. Purchase value is high but Limited tender is issued**
c. Purchase must be restricted from few firms d. Tender is issued by Registered post

**CONTRACTS & WORKS:**

1. Powers of JAG officer for calling of open tenders of works/service contracts up to Rs. _____ (D)
A. Rs. 2 Crores B. Rs. 4 Crores, C. Rs. 8 Crores, **D. Full powers**

2. Minimum notice period for inviting open tenders in works/service contracts _____ days. (C)
A. 15 B. 30 **C. 21** D. 25

3. Minimum notice period for inviting limited tenders in works/service contracts ____ days. (A)
**A. 15** B. 30 C. 21 D. 25

4. Cost of tender form costing above Rs. 20 lakhs and up to Rs. 50 lakhs is_____ . (B)
A. Rs.2000, **B. Rs.3000,** C. Rs.5000, D. Rs.10000.

5. Composition of Tender committee for works costing Rs. 1 Crore to Rs. 4 Crore. (C)
A. Jr.Scale of Executive Dept. & Jr.Scale of Accounts Dept. B. JAG/SG of Executive Dept & JAG/SG of Accounts Dept **C. Sr.Scale of Executive Dept. & Sr.Scale of Accounts Dept.**
D. JAG/SG of Executive Dept, JAG/SG of Sister Dept & JAG/SG of Accounts Dept.

6. In case of quotation tenders, _____ days notice shall be given. (A)
**A. 7** B. 10 C. 15 D. 20

7. The Performance guarantee to be paid for the Service contracts is _____ % of awarded value. (B)
A. 5 **B. 10** C. 15 D. 20

8. Earnest Money to be deposited along with tenders up to Rs. 1 Crore is @ _____ %. (B)
A.5 **B.2** C.10 D.15

9. In Service contracts the value of the liquidity to be submitted along with the tenders @ ___ % of advertised tender value. (C)
A.10 B.8 **C.5** D.2

10. The annual monetary ceiling limit of JAG officer for sanctioning expenditure under Quotations is Rs._____. (D)
A.50 lakhs B.1.2 Crores C.10 lakhs **D.60 lakhs**

11. Minimum number of contractors/agencies for calling quotations is _____. (B)
A. 2 **B.3** C.4 D.5

12. 2 packet system of bidding will be adopted for evaluation of Service contracts valuing Rs.__ and above.
A. Rs.30 lakhs **B. Rs.50 lakhs** C. Rs.70 lakhs D. Rs. 1 Crore (B)

13. _____% of GST will be levied for Vehicle contracts. (C)
A. 10 B. 8 **C. 5** D.18

14. _____% of GST will be levied for Running room maintenance contracts. (D)
A. 10 B. 8 C. 5 **D.18**

15. EPF will be paid by the Contractor for the work having _____ and above contract employees. (C)
A.10 B.15 **C.20** D.25

16. ESI will be paid by the Contractor for the work having _____ and above contract employees. (A)
A.10 B.15 C.20 D.25

17. The Seignorage collected for Cubic Metre of sand is Rs._____. (C)
A. Rs.36 B. Rs.56 C. Rs.66 D. Rs.46

18. The Performance guarantee paid by the contractor will be released after _____ . (B)
A. After passing of Final bill **B. On completion of the work**,
C. After completion of maintenance period D. On submission of 'No claim' certificate

19. The value of the similar nature of work to be submitted along with tender is ------ % of advertised tender value.
A. 25 B. 55 C. 45 **D.35** (D)

20. The minimum value of the Turn over duly certified by the Chartered Accountant to be submitted along with tender is_____ % of advertised tender value. (B)
A. 100 **B. 150** C. 75 D.125

*****

# SOUTH CENTRAL RAILWAY

## TRACTION ROLLING STOCK OPERATIONS SECUNDERABAD

# QUESTION BANK
## For
# CHIEF LOCO INSPECTORS SELECTION

## Sr. DIVISIONAL ELECTRICAL ENGINEER SECUNDERABAD

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# Model Question Paper

**Written Examination for selection of Chief Loco Inspector**
**SC Division**

Max. Marks:100
Time: 3 Hrs.

**Instructions**:

The question paper is divided into 2 groups (A&B).The candidates are advised to attempt both the Groups.

## Group – A

**I. Answer any 10 of the following. All the questions will carry equal marks.**

**10x5=50**

1 Draw a neat sketch of pantograph
2 Write the troubleshooting for **external fault** indication in static converter provided locos?
3 Write the No. of all standard form forms used in D&AR
4 How many types of switches provided in electric locomotives and explain each of them.
5 Write about exchanging of **alright signals**
6 a) What are the occasions that auto-regression of GR takes place write with trouble shooting?
b) How many ways relay Q118 will energies?
7 How you will improve the 'C' grade loco pilot to higher grades.
8 What is the procedure to impose minor penalty
9 a) Distinguish between Excluding and Continuous category
b) Distinguish between Supernumerary posts and Temporary post
c) Write the entitlement restrictions of various passes to running staff
10 a) List out the categories under HOER and indicate rostered hours of each category?
b)Expand the following
1) RITES 2) IRIEEN 3) COFMOW 4) RDSO 5) CORE 6) FOIS 7) COIS 8) IVRS 9) CRIS 10) IRISET
c) How many employees are required if 2 members working in a shift of 12 hrs roster and 8 hrs roster
11 Being a first official to the accident spot of train passed a stop signal at 'ON' how you will deal the situation.
12 a) Name of the Articles of constitution under which provisions for official language are made
b) Explain the Rule 12 of the official language Rules, 1976.

## Group – B

**II. Answer all the questions. All questions will carry equal marks.**
**20X1=20**

1. Electrolyte used in cell is _____ ( )
   a) $H_2SO_4$ b) HCL
   c) Diluted $H_2$ $SO_4$ d) $H_2o$

2. If two single passes applies at a time, the route will be ( )
   a) same b) different
   c) not permitted d) a or b

3. In twin Beam headlight the rating of bulb is _____ ( )
   a) 24V, 70/75W b) 24V, 90/100 W
   c) 110V, 70/75 W d) 110V, 90/100 W

4 .Official language day is ( )
   a) 16th September b) 15th September
   c) 13th September d) 14th September

5. Nomenclature of C2A is _____ ( )
   a) A29 b) A24
   c) A31 d) A48

6. Averted collision comes under _____ classification of accident. ( )
   a) Unusual incidents b) Indicative accidents
   c) Train accidents d) Equipment failure

7. Number of days can be granted as quarantine leave. ( )
   a) 15 b) 20 c) 25 d) this leave is not existing

8. Loss of one thumb will comes under _____ % of disablement. ( )
   a) 10% b) 30% c) 50 % d) 70 %

9. S-1313 form used for ( )
   a) stocked item b) Non-stocked item
   c) local purchase d) short tender

10. _____ shall be used as 4th communication facility between two block stations.
   a) Axle counters b) track circuit ( )
   c) Auto telephone d) block telephone

11.Fusee when lighted will display bright red flame, which will last for_____Minutes
   A: 10 to 15 B: 8 to 10 ( )
   C: 3 to 5 D: 5 to 7

12. How many wagons hand brakes shall be applied before detaching the TE of a train w/o BV in station limits where the gradient is steeper than 1/260
   A: 12 B: 16 ( )
   C: 18 D: 06

13. Gate signal is identified by _____ marker
   A: A B: C ( )
   C: G D: T

14.How many wagons hand brakes shall be applied before detaching TE of a train in station limits where the gradient is steeper than 1/260 ( )

A: BV + 12 wagons B: BV + 06 wagons

C: Only BV D: BV + 18 wagons

Duties of staff on arrival 4.57 A

15. In the event of engine Horns failure, on clearing the block section cautiously, if the driver is unable to repair, then he shall ( )

A: Work onwards on same condition B: Ask for relief engine

C: Ask PCO number D: None of the above

16. One of the following is not a personal equipment of the driver

A: Red flag B: Green flag ( )

C: whistle D: Working Time Table

17. On telephone pole brackets , the wire painted in Green colour connects to

A: Deputy control line B: Section control line ( )

C: Power controller line D: Commercial controller line

18. On single line immediately after the arrival of a stopping train, the points in rear and in front shall be set _____line. ( )

A: For the loop line B: To the occupied mainline

C: Against occupied line D: Against siding line

19. On Electrified territory the telephone connection provided on electric Masts, connects to ( )

A: Power controller B: Traction power controller

C: Commercial controller D: Deputy controller

20. Normally, the material train shall be ordered by _____ time only. ( )

A: Night B: Day

C: Foggy and tempteous weather D: None of these

## III. Fill in the blanks. All questions will carry equal marks. 30x1=30

1. If any fault exists Aux.power circuit of microprocessor loco, that will be indicated through _____
2. RGEB2 connected on _____ pipe line
3. The speed of the relief engine during night time in absolute block system___
4. Authority to pass advance starter in double line automatic system _____
5. Beyond _____ years age son not eligible for privilege pass.
6. Number of post retirement passes for group-'C' 33 years service completed retired employee is _____
7. _____ is suspension revoked standard form.
8. A retired Railway employee shall not have morethan _____ cases to act as defence helper.
9. The running staff roster under HOER comes under _____
10. The intensive roster staff working hours per day will be_____
11. The workmen compensation act in force with effect from _____
12. Expand the PNM _____
13. Maternity leave will be sanctioned for ____ days for _____ employees.
14. ____ days shall be admissible for leave encashment.
15. A Railway employee after retirement may permit ____ days to retain the Railway quarters.
16. Expand LHAP_____
17. After ordering within _____ minutes the ART should leave.
18. The running staff _____national holidays may be availed in a calendar year
19. The abbreviation of RDSO _____
20. The running staff member after attaining of 45 yrs. age should undergo for PME once in _____ years.
21. Lower pantograph caution order will be given during_____
22. When 'B' conk is defective_____
23. In ABCB loco, _____ coil is used for closing the DJ
24. While working with 'A' ending trouble loco, ____ relay should not be wedged
25. In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____
26. Improper working of ARNO will be known by _____ tripping failure
27. If C105 not closed, try by changing ____ switch to '3' position
28. To avoid wheel skidding, ____ to be pressed, while applying A9

29. To create, maintain & destroy the vacuum in dual brake loco, _____valve is used

30. If L1 or L6 not closed, ____ traction failure will be experienced

# Question Bank for Chief Loco Inspector

## SC Division

**Sub: Technical Descriptive**

1 What are the duties of loco inspector (Ele.Traction)?
2 Draw a neat sketch of pantograph
3 Draw a neat sketch of cantilever assembly.
4 Explain the AC locomotive maintenance schedule for freight locos?
5 Explain the AC locomotive maintenance schedule for coaching locos?
6 What are current ratings in different AC locomotives of WAM4, WAG7 and WAG-5?
7 Draw the circuit diagram of DJ control circuit of static converter provided locos.
8 Draw the circuit diagram of DJ control circuit of vacuum circuit breaker provided locos.
9 Draw the circuit diagram of DJ control circuit of air blast circuit breaker provided loco.
10 Explain how the speed will increase during field weakening?
11 What the mechanism provided mechanically for raising and lowering of pantograph. Explain with diagram
12 How many types of switches provided in electric locomotives and explain each of them.
13 Explain the parts of electro magnetic contractor and their function
14 Explain the parts of electro pneumatic contractor and their function
How many types of contactors are using in electric locomotives? Explain them briefly.
15 How many types of relays are using in electric locomotives? Explain them briefly.
16 Explain the importance of each part provided in pantograph.
17 Explain about the mechanism provided pneumatically to raise and lower the pantograph with diagram
18 Write the troubleshooting for permanent and intermittent acting of QOP1?
**19** Draw circuit diagram of tap changer circuit and explain how progression of GR takes place.
19 Write the troubleshooting for permanent and intermittent acting of QOP2?
20 Write the troubleshooting for permanent and intermittent acting of QOA?
21 Write the troubleshooting for **external fault** in static converter provided locos?
22 Write the troubleshooting for QLM alone dropping.
23 Write the troubleshooting for QLM dropping along with QOP1 & QRSI1.
24 Write the troubleshooting for acting of QRSI1.
25 What are the occasions for dropping relay QLA and write the troubleshooting.
26 During RB application explain how IP valve (electrical) is maintained in energized condition and how BP pressure drops if OHE fails, explain with circuit diagram.
27 During RB how the traction motors are connected to RSI block and why?
28 How will you troubleshoot if DJ trips with QOA acting and smoke from switch panel.
29 What is LTBA? How will you troubleshoot if CCBA repeatedly melting.
30 What are the protective equipment provided in RB and explain them their function?
31 What are the occasions that auto-regression of GR takes place write with trouble shooting?
32 Write troubleshooting for melting of CCA even with HOBA Off.
33 What are the reasons for wheel skidding and write preventive measures?
34 What are the items to be checked after a fire accident in locomotive?
35 Draw a pneumatic circuit of SA-9
36 Draw a pneumatic circuit of BP charging and explain how BP Pressure will be charged
37 Draw neatly the MTDJ control and explain the importance of safety relays on the circuit?
38 If MVMT1 or 2 doesn't start, what will happen in the control circuit? Explain with a

diagram.

39 During RB working how the field winding is excited. Explain with a sketch?
40 What is the significance of QVLSOL relay in MU locos? Explain with a circuit.
41 Explain the working system of SA9 in single loco and MU locos.
42 List out the preventive maintenance schedule and their periodicity.
43 Write the items which will cover in trip inspection of A.C.Loco.
44 What are all the latest technological developments available in electric locomotive? Explain with merits of such developments.
45 What is the difference between Rheostatic braking & Regenerative braking? Where regenerative braking is used. Explain with a block diagram
46 What is the difference between primary suspension & secondary suspension? Explain with illustration.
47 What is the difference between wheel slipping and wheel skidding and when they will be experienced? Why the skidded locos are not permitted on line?
48 What are the various parameters recorded during IC schedule on a WAM4 locomotive?
49 Draw the power circuit of WAG-7 and indicate ratings of various protective devices
50 Explain the procedure for checking leakage in BP circuit & FP circuit.
51 What are the items to examine during Pantograph entanglement?
52 What are reasons for MR Pressure not building?
53 Write the procedure of vacuum blockage and leakage tests.
54 How synchronization of notches will be in done MU locos? Explain with sketch.
55 Write about WAP-4 Bogie?
61 Write about WAG-7 Bogie?
62 Write about WAG-5 Simplex Bogie?
63 Why Low tension test is needed and write the procedure of conducting LT test?
64 Write the ill effects if DJ not tripped at Neutral section?
65 Write about WAG-7 Bogie?
66 What are readings to be taken incase of loco derailment?
67 Explain the working of brake system employing a) friction braking b) Electric braking
68 Write short notes on Pantograph ,Tap Changer and Silicon Rectifier
69 In MU operation how the MTDJ of rear loco getting feed from Leading loco. explain with circuit diagram
70 What are the loco defects will cause wheel skidding?
71 What is the Safety items provided at under frame of locomotives?
72 Explain the working principle of ARNO.
73 Explain the working C-2 Relay valve.
74 What is the function of RPS in Power Circuit and why Inductive shuts are provided in Electric Locomotive?
75 Name the relays & pressure switches in AFL circuit and indicate their function with diagram?
76 Explain how Power block will be taken?
77 What are equipments to be examined in under gearing of locomotive?
78 What are the items to be checked in a derailed loco?
78 What is the arbitration of providing an ALP in AC locos
79 What is LT Test and explain how it will be conducted?
80 Draw the feeding circuit diagram of traction sub station.
81 What are the silent features of thread breaking unit?
82 What are the items to be checked in under gearing by the crew while taking over loco from shed.
83 What are the newly provided and removed items in locos which are replaced SIV in

place of ARNO?

84 What are the lamps provided on the panel of Siemen's make SIV unit and explain them briefly?

85 Write the procedure of trouble shooting when "external fault lamp glows" on SIV unit?

86 Write the procedure of trouble shooting when "internal fault lamp glows" on SIV unit?

87 Write the procedure of trouble shooting when "OHE out of range lamp glows" on SIV unit and duties of loco pilot?

88 Write the trouble shooting procedure with neat sketch when SIV not picking up?

89 Draw the neat diagram of SIV provided DJ control circuit (ABCB)and name its parts?

90 Draw the neat diagram of SIV provided DJ control circuit (VCB)and name its parts?

91 Write all the tripping failures in a tabular column with trouble, abnormal sign and probable causes for SIV provided ABCB provided conventional loco?

92 Write all the tripping failures in a tabular column with trouble, abnormal sign and probable causes for SIV provided VCB provided conventional loco?

93 What are the main advantages of SIV comparing with ARNO?

94 Write the procedure of trouble shooting for ICDJ in MPFDCS provided conventional locos?

95 Write the procedure of trouble shooting for TLTE in MPFDCS provided conventional locos?

96 Draw the power circuit of WAG 9 loco

97 What are the different three phase auxiliary motors provided in three phase loco, write their locations, purpose and their circuit breakers?

98 Explain about batteries in three phase loco

99 Narrate about VCD.

100 What are the different brakes provided in three phase loco?

101 How to drive the loco?

102 What will happen if emergency stop button is pressed and how will you re-set it?

103 How to change the cab?

104 How to pass the neutral section?

105 If F0301P1 (Disturbance in traction converter No.2) is appeared on screen how will you trouble shoot and work further?

106

107 How load sharing is done if anyone of the auxiliary converter is isolated? 12.Explain the bogie of WAG 9

108 Explain about pantograph and it's working 14. Explain the working of parking brake

109 If both side head lights are not working from cab2 how will you trouble shoot?

110 What are the different single phase auxiliary motors provided in three phase loco, write their locations, purpose and their circuit breakers?

111 What are the items provided in machine room No.1?

112 Explain about harmonic filter

113 How to work the train in PTDC mode in knorr brake loco?

114 What are the items provided in panel 'B'

115 What are the occasions to switch OFF control electronics?

116 Explain the working of sanders in three phase loco

117 How to switch OFF control electronics?

118 How to pass the neutral section with MU?

119 How to check the loco while taking over charge at Crew changing point?

120 How to do the braking?

121 Explain about potential transformer

122 Explain the bogie of WAP 5

123 What do you mean by service penalty brakes and how will you reset it?
124 Where auxiliary manifold is located and what are the items provided in this?
125 What are the advantages of three phase loco?
126 Draw the power circuit of modified WAP 7 loco
127 If train is parted what will happen in the loco and how to work further?
128 What are the items provided in panel 'A'
129 Explain about cooling concept in three phase loco
130 What are the working items in non-working cab?
131 How to re set ASS make MCS?
132 How transformer is protected from temperature?
133 What happens if alarm chain is pulled and what will you do?
134 Explain about fire protection in the locomotive 41. How to energise the loco?
135 Explain about self hold mode
136 How to perform shunting with three phase loco? 44. Explain about memotel.
137 How loco is protected from less or no voltage?
138 If F0801P1 (Disturbance in auxiliary converter No.3) is appeared on screen how will you trouble shoot and work further?
139 How to make engine on train with three phase loco?
140 How to check the DDS?
141 If LSCE is glowing on run what you will do?
142 What is the maximum braking and tractive effort values of various three phase locos?
143 Explain the bogie of WAP 7
144 How to check the loco brake power?
145 What are the items provided in machine room No.2?
146 Explain the working of direct brake
147 If F0701P1 (Disturbance in auxiliary converter No.2) is appeared on screen how will you trouble shoot and work further?
148 If throttle is not working how to work the train?
149 How to re-set MG make MCS?
150 Where air brake manifold is located and what are the items provided in this?
151 How to work as banker?
152 What are the items provided in panel 'C' ,
153 If both side head lights are not working from cab 1 how will you trouble shoot?
154 Explain the bogie of WAP 5
155 How proportional brakes will work in three phase loco?
156 If F0601P1 (Disturbance in auxiliary converter No.1) is appeared on screen how will you trouble shoot and work further?
157 Explain about constant speed control feature in the loco
158 Draw the power circuit of WAP 5 loco
159 What are the sub systems are provided in the loco?
160 What are the differences between priority 1 and priority 2 messages?
161 If F0201P1 (Disturbance in traction converter No.1 is appeared on screen how will you trouble shoot and work further?
166 What is trailing mode and how to work in this mode?
167 What are the items provided in panel 'D'
168 How to move the loco as dead?
169 What are the items in pneumatic panel?
170 Explain about mode switch of knorr brake loco
171 What are the oil points available for three phase loco?

# Question Bank for Chief Loco Inspector
## SC Division

**Sub: Technical Objective**

1. Setting of QLM relay in WAG7 loco is…… amps against a power circuit current of …
2. CT ratio of RSILM in WAG5 loco is….
3. One end of QOA relay is connected to…… and the other end to….
4. Power rating of WAG7 main transformer is ….. and for WAG5 is …..
5. DJ will close, when QPDJ pressure is at ….. Kg/cm2 and will trip when it comes to …. Kg. /cm2.
6. Which relay ensures that DJ is closed only on no load?
7. The wheel diameter on new …. Mm and permitted up to …… mm
8. Permissible root wear is ….. mm and the flange wear is ….. mm.
9. Setting of QD relay in WAG7 loco is … A
10. Notch by notch progression is ensured by …. Relay
11. SMGR control circuit is protected from earth fault by ….. control fuse and the fuse rating is …..
12. ……. Schedule is carried out on electric locomotive at the nominated workshops.
13. Type of motor used in WAG9 locos for traction purpose……
14. Rating of each battery in locomotive is … and the total voltage is …. V
15. LSDJ flickering is the symptom of ……
16. Q-30 relay is termed as…. and it will cause tripping of DJ through ……
17. Continuous current rating of TAO659 TM is ……amps and 10 min. rating is ……
18. Continuous current rating of Hitachi TM is ……amps and 10 min. rating is ……
19. Conjunction brakes on locos gets applied through …… valve
20. Brake application through A-9, BC pressure goes up to ……kg/cm2 in ……seconds.
21. Permissible piston stroke on BC cylinders during brake application is ……
22. Type of cut out cock used in bogie brake isolation is ……
23. Q20 is termed as……relay and its setting is ……V
24. Auto regression will take place when DJ is tripped on notches, through ……relay
25. QCVAR connected across…… & …… terminals.
26. Relay QCVAR picks up at ……Volts to open ……contractor
27. Setting of P2 pressure switch in AFL circuit is ……& …… kg/cm2
28. During progression & regression …… will close on all ½ notches and …… will come into circuit.
29. Sequential closing of CGRs achieved through ……arrangement.
30. Tap changer taps are making & braking on no load is ensured by ……
31. Transition time of GR contracts from one tap to another tap is ……
32. If GR stuck up in ½ notch due to any reason for more than …… sec. then ……
33. Expand the abbreviation ESMON…..……
34. Medha make ESMON module will have a short term memory of ……hours and a long term memory of ……
35. AAL make ESMON module is termed as …… and its short term memory is

……

36. SEC is the emergency consumed by a locomotive for ……GT.KM
37. Use of Rheostatic braking will minimize …… on brake gear.
38. Change over of working etween braking traction takes place by ……
39. On load operation of reversors & CTFs are avoided by …… relay
40. Relay QE monitors the ……current and QF relay monitors the ……current.
41. If CCLS fused…… lamps will not glow and …… valves will not energise.
42. To avoid wheel slipping at the time of starting on heavy loaded trains ……switch is put on to energise ……relay
43. Locos fitted with static inverters if external fault indication display on SI unit, then check for ……equipments other than auxiliaries.
44. Time to build up ……kg/cm2 by MCP in normal working condition is ……minutes.
45. Time delay in closing contractors C107, C105 & C106 is ……sec.
46. C108 Contactor controls --------- Motor
47. Buffer height limits---------
48. Rail guard height is -----
49. In twin Beam headlight the rating of bulb is _____
50. In a twin beam Head light, what is the voltage of bulb in “dimmer” Operation.
51. What is the advantage of twin beam headlight system
52. What is class of Insulation specified for 180 degree temperature:
53. At the time of wheel slip, the object of sanders is to
54. Specific gravity of electrolyte is measured using:
55. DC series motor is used for traction purpose because
56. Horse power of a TAO 659 traction motor is
57. Battery negative is connected to loco body through
58. The speed control method used in AC locomotive
59. KVA rating of TFP used in WAG7 & WAP4 locos is
60. Hitachi Traction motor is a _ pole ____ motor
61. What type of bearing is used in WAG7 loco axle box?
62. The time interval between IA and IB schedule of WAG5 loco is_____days
63. The lubricant used in suspension bearing of a TAO motor is…….
64. Gear ratio of WAG7 loco is
65. Max.starting torque offered by WAG7 loco is
66. Purpose of inter pole in the traction motor.

67. The rating of ATFEX is _____ KVA.
68. RHOBA resistance is _____ ohms
69. In WAG5A loco the FP leak hole drop is allowed up to _____
70. In WAG5A loco the standard setting of QPDJ cut in/cut out _____
71. In WAP4 loco the standard setting of RGEB 2 cut in/cut out _____
72. In WAP4 loco the Duplex check valve is set at _____
73. Pinion and bull gear ratio of a WAG 7 loco is _____
74. Capacity of battery provided in electric loco is_____amph
75. Bibby Coupling is provided to couple _____
76. The class of insulation used in Hitachi Traction Motor is _____
77. The setting value of QD relays ____ DC amps pick up ___ DC amps drop out
78. The ratio of RSILM in WAG7 is _____
79. The ratio of TFILM in WAG7 is _____
80. What is the Gear ratio of a wheel set in WAP4 _____
81. What is the diameter of an Axle _____?
82. What is the height of the buffer _____?
83. What is the height of the rail guard_____?
84. Periodicity of AOH schedule for freight locos_____
85. Periodicity of IOH schedule for freight locos_____
86. Periodicity of POH schedule for freight locos_____
87. Periodicity of IC schedule for freight locos__
88. Periodicity of IB schedule for freight locos_____
89. Periodicity of POH schedule for coaching locos__
90. Periodicity of IOH schedule for coaching locos_____
91. Periodicity of AOH schedule for coaching locos_____
92. Periodicity of IC schedule for coaching locos_____
93. Periodicity of IB schedule for coaching locos_____
94. Transformer breather used for_____
95. The HP of MVSL is _____
96. The maximum rpm of a Hitachi Traction Motor is
97. The position of CGR contactors in between notches are ------,-------- and --------- respectively
98. Main transformer is having _____number of taps totally.
99. Flickering of LSDJ is called _____ tripping failure.
100. In WAG-5, If MVSL-1 is burnt work the train by _____
101. If C-118 is closing ,but DJ not closing then keep____&_____and try
102. Poly glass material projecting from vent mesh of TM is called as _____
103. Time required to travel for GR from 0-32 notches is _____
104. When there is Operation ‘O’ trouble, clear the section by placing _____
105. MPS can be operated from _____ notch for field weakening

106. Q46 energises when _____

107. Feed pipe is painted with _____ colour.

108. Purpose of RPS is _____

109. Whenever QCVAR becomes defective, starting phase to ARNO to be cut off by de-energizing _____

110. If C-105 is not closed, _____ failure will be experienced

111. After closing DJ, if C-118 coil not de-energised, it leads to _____

112. Permanent de-energisation of Q52 leads to _____ traction failure

113. When DJ is opened on notches auto regression takes place by _____ relay.

114. If MVMT-1 is defective, _____tripping failure will be experienced

115. If MVSI-1 is defective, _____ tripping failure will be experienced

116. Maximum RB Current rating for WAG-5 is _____ Amps

117. In WAG-5 loco, maximum MR pressure is _____ $Kg/cm^2$

118. Melting of CCPT causes _____ tripping failure.

119. When ZPV on '3', ____ contactor will isolate & ____ PV will isolate

120. Auto-regression on $1^{st}$ notch with LSP due to _____

121. Earth fault in SL 1 causes _____

122. Direct auxiliaries are provided to protect ARNO from_____

123. OHE of AC Traction is fed by _____

124. Volt meter is connected in _____ to the circuit

125. Autotransformer is used to get _____ voltages in our locomotive.

126. Resistance is _____ proportional to cross sectional area of the conductor.

127. In electric traction loco, Traction motors are _____ type

128. Rate of flow of current per sec. in the circuit is called _____

129. Electrolyte used in cells of electric loco battery is _____

130. Intentional bonding is done through _____

131. In air flow indicator white needle called as _____ and red needle called as _____

132. DC Motor working principle _____

133. When Q44 is wedged, _____ to be avoided

134. Earth fault in MVSL-1 causes tripping of DJ through_____ relay.

135. In modified panto circuit, when DJ locked mechanically, then Pantograph ___

136. Pantograph is mounted on _____ number of base insulators

137. Single bottle vertical type VCB control circuit will have _____ number of branches

138. In VCB loco, if DJ trips just before releasing BLRDJ, conclude ____I/L is defective

139. For Twin pipe air brake system _____ & _____ air hoses to be coupled.

140. TFWA feeds _____ Volts of supply to ARNO

141. ET-1 and ET-2 are to protect against _____

142. QRSI will not allow more than _____ Amps. in WAG-5 loco.

143. When Q20 is energised, _____ lamp will glow.

144. In modified WAG-5 loco, U-1 is connected to _____ Traction Motor
145. QOP is provided in _____ circuit
146. RF resistances are cooled by _____
147. To test the condition of a fuse, _____ is provided
148. LSB controlling relay is _____
149. If CHBA fails _____ lamp will glow
150. If Q51 energises, _____ takes place
151. When HCP is kept on '2' position, _____ coil gets energised.
152. QWC relay remains energised as long as ____ is pressed when GR is on '0' or 1st notch then, automatically de nergises after 10th notch in WAG7 locomotive.
153. When PSA is pressed from Cab-1, VESA No._____ & _____will energise.
154. While starting loaded train, _____& _____ switches to be pressed to avoid QD action
155. Purpose of staggering arrangement of OHE contact wire is _____
156. In WAG7 loco, location of C2B relay valve is _____
157. If _____relay de-energies, loco brakes will not release by pressing PVEF.
158. Earth fault in Q119 coil causes _____
159. In WAP4 loco, to isolate TM 4 ____ switch to be kept on ____ position
160. In electrified section, when ATD is provided only at one end, it is known as ____type of OHE
161. In DC-DC converter, twin beam headlight provided with ____ lamps/ bulbs
162. Current rating when MVRH is isolated is _____ Amps in WAG 5 locomotive.
163. Defective QCVAR causes _____ tripping failure.
164. In Static converter loco,3∅ E.M. contactor for MVRF is _____
165. If any un-loader valve is stuck up and discharging air, trouble can over come by _____
166. In WAG5, if duplex check valve is defective _____ will not work
167. If rear cab BL is not locked properly, it leads to _____
168. If QPH is defective, work the train by keeping _____ on _____position and duly follow necessary precautions
169. Earth fault in CHBA causes _____ relay to energise
170. In microprocessor loco, fault, if any, will be indicated through _____
171. During RB, earth fault in RF resistances cause ___ relay to energise in WAG 7 loco.
172. When A9 is applied to emergency, the pressure admitted to loco brake cylinder is __
173. In WAG5, hand brake will apply brake blocks of ____ wheels
174. In Static converter loco, _____ should not be wedged under any circumstances
175. For quick recharging of BP pressure, _____ switch to be pressed
176. In Microprocessor loco, during ICDJ _____ fuses to be checked
177. Puncture of diode in RSI block causes _____ lamp to glow
178. Total number of roof bars including hand operated Roof Bars in WAP-4 loco is_____
179. RGR is connected between _____

180. Airflow measuring valve is connected between _____ & _____
181. In Static converter loco, in VCB type DJ control circuit, C118 I/L is replaced with _
182. 'NO TENSION' is experienced due to_____ defects on loco roof
183. If Q30 N/O I/L is defective _____ relay can be wedged to work the train further
184. If LSCHBA glows on run, _____ & ____ to be checked.
185. Q44 is called as _____ relay
186. If twin beam headlight is not working, _____ switch position to be changed
187. Notch by notch progression or regression is done by ____ relay
188. While wedging AC 3∅ contactor, ensure _____
189. Defective Q 50 causes _____ traction failure
190. If RSI –1 draws over current, DJ will trip through _____ relay
191. Setting of SS-1 is ____ kg /$cm^2$
192. During blockage test, vacuum should not create more than ____ cm, in train pipe
193. In WAG5, to isolate TM1, _____ bit to be wedged
194. Pilot lamps does not glow, when _____ conk disconnected
195. Operation B part - I trouble is caused due to _____ even though HVSL 1&2 and HPH kept on 3 position
196. Defective Q30 causes _____
197. When CCA melting repeatedly even with HOBA in OFF position _____
198. While operating MP to Traction side, from Braking side _____
199. C-118 closing in LT, but not closing in HT. Reason may be _____
200. Earth fault in QCVAR causes_____
201. If L3 opens on run, _____ will happen
202. In WAM 4P-6P loco, if HPH kept on '0', _____ Current rating to be followed
203. On dual brake loco, if CCLS is melting even HOBA in OFF, to avoid TLTE, ___
204. Traction motor starting current for WAG-7 Loco is _____
205. Precautions while working with Manual operation of GR _____
206. If LPAR glowing on run along with buzzer check _____
207. Short circuit in TFWR causes _____
208. When Head light is failed, speed of the train should not be more than _____Kmph
209. Earth fault in MVSI-1 causes _____
210. When MP moved from Braking to Traction, if TLTE experienced , check ___
211. Reason for Operation 'A' ending part – II is due to ____
212. While closing DJ, earth fault in TFWA causes _____
213. QD-2 is connected between ____ & ____ Traction Motors in WAP-4 loco
214. QD actions are _____
215. MR-3 pressure is admitted into brake pipe through ____ valve in WAG-5
216. Earth fault in C-118 coil causes_____
217. On VCB loco, defective C-118 N/O I/L causes _____

218. While working MU, defect in the rear loco will be noticed by _____
219. During MU operation, if CCPT melting repeatedly in leading Loco, _____
220. Pantograph is not raising due to _____
221. Location of Pantograph lowering spring is _____
222. When MPJ 2 is kept in forward direction, _____
223. If pantograph raising spring is broken and fallen on loco roof, it causes _____
224. While passing neutral section, ensure _____
225. While working MU, if leading Loco GR is defective, it causes _____
226. Normally, starting phase to ARNO cut off automatically by _____
227. Cut in the TFWA winding causes _____
228. The electrical braking is effected by_____ contactors
229. The total No. of auxiliary motors on WAG-5 dual brake loco are _____
230. If Dropper is found hanging, the immediate duty is _____
231. RSI-2 block supplies current to _____ in WAP-4 loco
232. On opening BLVMT blowers will are not stopping due to _____
233. ICDJ trouble will be experienced due to _____ fuses melting
234. If 'C' conk is slack _____ will not work.
235. Proportional working can be isolated by closing ____ COC
236. Speed of the train while driving from rear cab by Driver is _____
237. Purpose of VA-1 release valve in WAG-5 loco is _____
238. If auto regression of GR experiences & exhausters stops working , check ____
239. Appropriate air pressure in the system is maintained by ____
240. HS-4 pressure should be always between _____
241. Earth fault in MVRF during RB causes energising of ____ in WAG 7 locomotive
242. A34 terminal cut causes _____traction failure.
243. Loco earthing switch is _____
244. Ignoring of banding failure takes place in Traction Motor may leads to _____
245. Slipped pinion causes ____
246. When locked axle takes place in mid section _____
247. In WAG 5, if HMCS-1 is placed on ‘3’ position, _____
248. Purpose of A-1 Differential valve is_____
249. On run heavy flashes are noticed from Panto_____
250. Breaking of roof insulator or base insulator leads to _____
251. When there is Earth fault in VEPT-1 coil _____
252. Procedure of isolating RSI 2 in WAG5 loco is _____
253. In WAG 7 loco, QD 2 is connected between ___ & ___ Traction motors
254. WAP4 Loco will have _____ type of bogie
255. In WAG 7 loco if RSI2 exceeds an over current of _____
256. If only 6 Shunting contactors are provided in WAG-5, they are meant for ____

257. LSB glows and extinguishes when MP is placed on ‘P’ due to _____
258. RF resistances are provided _____
259. Location of ATFEX in WAG-5 is _____
260. On releasing SA9, pressure in the brake Cylinders will escape through _
261. On notches DJ tripped. After closing DJ, if TLTE is experienced, ___
262. The purpose of QTD101 relay is _____in static converter locomotive
263. Additional fuse provided in loco is _____
264. Setting of QLM in WAG 5 loco is _____ Amps.
265. Total number of DC motors on WAG5 loco are _____
266. RSI-2 block supplies Current to _____ in WAP4 loco
267. In WAG7 loco maximum number of traction motors can be Isolated at one time is _____
268. Minimum pressure required for energising of any electro valve in loco is __ $kg/cm^2$
269. Working pressure of SMGR ____ $kg/cm^2$
270. GR Full notch Protection relay is _____
271. MCB TFS is related for the function of _____
272. Normal Height of contact wire from Rail level is _____
273. Minimum amount of Vacuum to be created with 8 mm leak hole test plate With in 30 seconds is ____ Cm.
274. Message conveyed through Emergency Telephone is to _____
275. On run if CCBA fuse melts, ____
276. Length of Section Insulator type Neutral Section is _____ Meters
277. When GR on 21$^{st}$ notch, if MP is brought to ‘0’ _____
278. QCVAR is provided for the protection of _____
279. In dead loco, to avoid wheel skidding _____ to be isolated
280. Position of A8 COC, while working with cab2 leading is ____
281. If time taken to pass One km is 80 seconds, the speed of the train is____ Kmph.
282. Standard span length between two Traction masts on straight line _____ Meters
283. QLM is available in _____ circuit
284. To over come A-ending Part-II, _____ wires to be looped and follow necessary precautions.
285. DCP type fire extinguisher can used for _____
286. If C-118 is closing in LT but not closing in HT, _____ wires to be looped and follow the precautions as like Q44 wedging.
287. Fire extinguisher used on Electric traction loco is _____
288. Earth faults in SL-2 causes tripping of DJ through _____
289. Lower pantograph caution order will be given during_____
290. When 'B' conk is defective_____
291. In ABCB loco, _____ coil is used for closing the DJ
292. While working with ‘A’ ending trouble loco, ____ relay should not be wedged
293. WAP-4 loco will have _____ number of Main reservoirs

294. R-1 COC location in WAP-4 loco is _____
295. To isolate TM No. 6, _____negative bit to be packed in WAP 4 loco (with out RB)
296. Total number of brake cylinders provided in WAP-4 loco is ____
297. Type of bogie provided in WAM-4 loco is _____
298. Horsepower of WAP-4 loco is _____
299. In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____
300. Improper working of ARNO will be known by _____ tripping failure
301. If C105 not closed, try by changing ____ switch to '3' position
302. To avoid wheel skidding, ____ to be pressed, while applying A9
303. To create, maintain & destroy the vacuum in dual brake loco, _____valve is used
304. If L1 or L6 not closed, ____ traction failure will be experienced
305. If train is expected to stop for ___ minutes or more, blowers to be switched OFF, to conserve energy
306. Earth fault in auxiliary control circuits causes, melting of _____ fuse
307. If Banding failure is experienced, clear the section with ____ KMPH of speed
308. Before conducting LT test, ensure _____
309. Modified locos will have ____ relay, in place of C118 chronometric I/L
310. To avoid QD action in microprocessor loco, ____ switch to be pressed
311. If SL2 had earth fault, DJ will trip through ____ relay
312. Modified Pantograph pan will have, _____ in place of wearing strips
313. If pilot lamps are not working, _____ & _____ fuses to be checked
314. If C145 coil is having earth fault _____ fuse will melt.
315. Modified RGCP setting is _____ $Kg/cm^2$
316. Defective Air Dryer leads to _____
317. Unless GR is in _____ notch, DJ cannot be closed
318. In WAG 5 loco, If all line contactors are not closed, check _____COC
319. If C107 contactor not closed, _____ tripping failure will be experienced
320. For wedging Q44, ____ permission is required
321. While working MU, glowing of LS group lamp in leading loco indicates ____
322. If, BLRDJ is defective, close the DJ by pressing_____
323. QD1 energises at _____ amps in modified locos.
324. If any foreign body is hanging from OHE, the immediate duty of driver is _____
325. To isolate TM4 in WAP4 loco(RB provided)_____ negative bit to be packed
326. Horse power of WAG-7 is _____ HP.
327. Earth fault in MVMT1 causes tripping of DJ through ____ relay
328. To check AFL, _____ switch to be pressed
329. While working EEC operation, ZSMS to be kept in _____ position in WAG5 loco.
330. In WAM4P loco, ____ No. of motors will start along with ARNO
331. Location of R1 COC in WAG7 loco is _____

332. WAG7 loco is having _____ type of bogie
333. If Pacco switch is in pressed condition, _____ trouble will be experienced
334. Earth fault in C107 coil causes _____ tripping failure
335. Earth fault in S41causes tripping of DJ through _____
336. In WAM4P- 6P loco, to isolate TM 4, ____ bit to be packed
337. Nomenclature of MU2B is _____
338. Location of A8 COC in WAG7 loco is _____ in modified locos.
339. In 58 BOXN+BV load, if 6 DVs are defective, the effective brake power is_____
340. Minimum Brake pipe pressure should be _____ Kg/cm $^2$ in locomotive and ____ Kg/cm$^2$ in brake van of a train having 58 vehicles
341. Minimum vacuum level should be ___ Cm in locomotive and ___ Cm in BV in goods train.
342. To work an air brake train with 59 vehicles, ____ No. of CPs to be kept in service
343. Minimum FP pressure should be ___ Kg/cm $^2$ in locomotive and ____ Kg/cm$^2$ in SLR of a 10 vehicles coaching train
344. In EP C-118 provided locos ____ relay is provided in auxiliary control circuits.
345. Q20 actions are _____
346. P1 is provided on _____ pipe line
347. If time taken 40 seconds to pass one KM, the speed is _____KMPH.
348. In MU, ___ lamp glows in healthy loco and ____ lamp glows in defective loco
349. Starting Current ratings for 10 minutes in WAP4 loco is ____
350. On modified locos, TM meters connections in cab1are____ & in cab2are____
351. Earth fault in ARNO capacitor bank causes tripping of DJ through _____ relay.
352. In modified locos, ARNO is replaced with_____
353. In WAP4 loco, to isolate TM No.5 on negative side, _____bit to be wedged.
354. In MU, ___valve makes the rear loco also to create vacuum during recreation
355. By pressing SW1 or SW2, _____ relay will energise
356. If negative bonding is existing, LECC glows___ with HOBA in “OFF”
357. When Driver is driving from rear cab & Asst.Driver is leading cab, the speed is__
358. On modified WAP4 loco, RF resistances are cooled by ____
359. When ZPV on ‘4’ position _____ Contactor will open
360. The length of PTFE neutral section is _____ Meters
361. Though MVRH is working, if QVRH is not energised, it leads to ____
362. Earth fault in SJ4 causes tripping of DJ through ___ relay
363. If CTF3 TR I/L is defective on line contactors control circuit causes _____ traction failure
364. Pressure setting of CP individual SS is _____ kg/cm$^2$
365. GD80E filter is connected in between ____ and ____
366. Signaling relay for LSGR is _____

367. Capacity of CCA fuse is _____ Amps.
368. Tap changer control circuit is controlled by _____fuse
369. The Condition of Q46 relay during Quick regression of GR is ___
370. If earth fault happened in relay Q119, _____fuse melts.
371. Output supply of Static converter is _____
372. When BP drops and A9 is in release ____ __starts functioning.
373. While working MU, BLSN to switched off at _____ board of neutral section
374. WAG7 TM current rating for 60 min. is _____amps.
375. Static converter input supply is _____ volt & out put supply is _____Volts
376. a7 & a8 Bushings are belongs to _____ Secondary Winding
377. Nomenclature of C2A is _____
378. In MU, ____valve makes the rear Loco brakes to operate along with leading loco brakes.
379. If CCBA is melting when HOBA in OFF, check _____
380. In dead loco, J1&J2 handles to be kept in _____ position
381. During RB, if BC pressure is above 1.0 $kg/cm^2$, _____ relay will de-energise
382. In WAP4, center pivot will carry ____% and Bolster will carry ____% of load.
383. Purpose of Anti Creep wire is _____
384. If QVMT2 is not energised, _____ tripping failure will be experienced
385. Earth fault in L2 leads to tripping of DJ through ____ relay
386. Capacity of RGR is _____ Ω
387. Input supply of Inverter of SI unit is _____
388. Purpose of pantograph pan tilting modification is _____
389. When accident is occurred, operate _____ switch of speedometer, after stopping.
390. If QE is energised, ____ will happen
391. Fault memory capacity of Medha make Microprocessor is _____
392. In Static converter loco, at neutral section, ___switch only to be open in modified locos.
393. In WAG7, load bearers nearer & farer to center pivot will carry __ % &__% of load
394. Earth fault in C145 coil causes _____ fuse to melt in Static converter Loco
395. In Microprocessor loco, if main unit is not working keep HBA in ‘0’ for ____
396. When CCSPM blown out, ____ will not work
397. Purpose of Additional CCBA is _____

# Objective questions on three Ø loco

**1.** Three phase loco works on the principle of …… **( )**

**a.** VVVF **b.** VFVF

**c.** VVVV **d.** None of the above

**2.** WAG 9 loco is fitted with …… type of bogie. **( )**

**a.** Bo-Bo flexi coil **b.** Co-Co Tri mount

**c.** Co-Co flexi coil **d.** Co-Co tetra mount high adhesion

**3.** Three phase loco is provided with …… number of roof bars. **( )**

**a.** 2 **b.** 3

**c.** 4 **d.** 3+3

**4.** SS 06 belongs to …… sub system. **( )**

**a.** Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

**c.** Auxiliary converter No. 3 **d.** Traction converter No. 1

**5.** To isolate panto No. 1 keep panto selector switch in ……. position. **( )**

**a.** Auto **b.** I

**c.** II **d.** I & II

**6.** To put on flasher light …… to be operated. **( )**

**a.** AFL **b.** BPFL

**c.** ZFL **d.** Auto brake

**7.** SS 03 belongs to …… sub system. **( )**

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**8.** Three phase scavenging blower filters dust from …… **( )**

**a.** Oil cooling blower **b.** Bogie blower

**c.** Machine room blower **d.** Oil cooling blower & Bogie blower

**9.** Parking brake facility is available to …… wheels in WAG 9 loco. **( )**

**a.** 1, 4, 5 & 8 **b.** 2, 6, 7 & 11

**c.** 2 & 11 **d.** 1, 6, 7 & 12

**10.** Maximum braking effort of WAG 9 is …… **( )**

**a.** 160 KN **b.** 182 KN

**c.** 260 KN **d.** 258 KN

**11.** SS 01 belongs to …… sub system. **( )**

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**12.** Loco grounding key is …… **( )**

**a.** Solenoid valve No. 30 **b.** IG 68

**c.** IG 38 **d.** E 70

**13.** For charging of BP pressure …… COC to be kept open. **( )**

**a.** A 8 COC **b.** 70 COC

**c.** 74 COC **d.** 47 COC

**14.** In train engine, if ZBZN is switched ON, …… happens. **( )**

**a.** BP pressure drops to 'O' **b.** FP pressure drops to 'O'

**c.** BC pressure raises to 3.5 $kg/cm^2$ **d.** None of the above

**15.** In WAG 9, maximum brake cylinder pressure with direct brake is …… **( )**

**a.** 1.8 $kg/cm^2$ **b.** 2.5 $kg/cm^2$

**c.** 5 $kg/cm^2$ **d.** 3.5 $kg/cm^2$

**16.** SS 02 belongs to …… sub system. **( )**

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**17.** Location of PBBUS in knorr brake loco is …… **( )**

**a.** Pneumatic panel **b.** Auxiliary manifold

**c.** Air brake manifold **d.** Below direct brake handle

**18.** Three phase loco is equipped with …… No. of three Ø auxiliary motors. **( )**

**a.** 16 **b.** 22

**c.** 12 **d.** 13

**19.** In case of emergency, Asst. loco pilot can stop the train by operating …… **( )**

**a.** Emergency stop switch **b.** Emergency brake valve

**c.** BPVG **d.** a or b of above

**20.** Procedure for quick charging of BP pressure in three Ø loco is …… **( )**

**a.** Press BPVG **b.** Keep A9 in release position

**c.** Press PVEF **d.** Press 'Emergency stop' switch

**21.** The position of mode switch in leading cab of knorr brake loco is …… **( )**

**a.** HLPR **b.** Lead

**c.** Trail **d.** Test

**22.** In knorr brake loco pneumatic panel have …… number of portions. **( )**

**a.** 1 **b.** 2

**c.** 3 **d.** 4

**23.** Machine room blowers & their scavenging blowers works in …… Mode(s). **( )**

**a.** Driving mode only **b.** Cooling mode only

**c.** Off **d.** Driving mode & Cooling mode

**24.** Normal position of 152 is …… **( )**

**a. ‘**0’ **b. ‘**1’

**c. ‘**Norm’ **d.** None of the above

**25.** Positions of 154 Switch are …… **( )**

**a.** I, II **b.** Norm, I, II and I & II

**c.** Norm **d.** 0 & 1

**26.** SS 04 belongs to …… sub system. **( )**

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**27.** In WAG 9, earth return bushes are connected to …… axle boxes. **( )**

**a.** 1, 4, 5 & 8 **b.** 2, 6, 7 & 11

**c.** 2 & 11 **d.** 1, 6, 7 & 12

**28.** WAG 9 have …… number of dampers in primary suspension. **( )**

**a.** 32 **b.** 20

**c.** 64 **d.** 40

**29.** SS 08 belongs to …… sub system. **( )**

**a.** Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

**c.** Auxiliary converter No. 3 **d.** Battery

**30.** Auto brake valve can be locked or unlocked in ……. position of the handle in knorr brake loco. **( )**

**a.** Emergency **b.** Neutral

**c.** Full service **d.** Minimum reduction

**31.** WAP 5 have …… number of dampers in primary suspension. **( )**

**a.** 8 **b.** 16

**c.** 4 **d.** 32

**32.** Totally, three phase loco have …… number of additional COCs. **( )**

**a.** 4 **b.** 8

**c.** 16 **d.** 2

**33.** To isolate Auxiliary converter No. 2, open MCB No. ……..… located in SB 2. **( )**

**a.** 127.22/1 **b.** 127.22/2

**c.** 127.22/3 **d.** 127.2

**34.** In WAG 9/WAP 7, location of air dryer is …… **( )**

**a.** Behind MCP 1 in left side **b.** Between two trucks

**c.** Behind cattle guard 1 in left side **d.** Behind cattle guard 1 in right side

**35.** SS 05 belongs to …… sub system. **( )**

**a.** Harmonic filter **b.** Hotel load

**c.** Battery **d.** Batteries

**36.** When parking brakes are applied BP pressure drops up to …… $kg/cm^2$ in knorr brake loco. **( )**

**a.** 3 $kg/cm^2$ **b.** 3.8 $kg/cm^2$

**c.** 3.5 $kg/cm^2$ **d.** 2 to 3 $kg/cm^2$

**37.** In MU operation position, Constant Speed Control in slave loco is …… **( )**

**a.** In service **b.** Partially in service

**c.** Will not be in service **d.** None of the above

**38.** WAG 9 is provided with ……. No. of direct brake cylinders and ……. No. of parking brake cylinders. **( )**

**a.** 12 & 4 **b.** 12 & 12

**c.** 4 & 12 **d.** 12 & 6

**39.** Auto brake valve have …… number of positions in knorr brake loco. **( )**

**a.** 5 **b.** 6

**c.** 2 **d.** 4

**40.** Maximum tractive effort of WAP 5 is …… KN. **( )**

**a.** 258 KN **b.** 322.6 KN

**c.** 458 KN **d.** 160 KN

**41.** WAP 7 loco is fitted with …… type of traction motors. **( )**

**a.** 3 Ø Asynchronous motor **b.** TAO 659

**c.** Hitachi **d.** Hitachi or TAO 659

**42.** Maximum brake cylinder pressure with direct brake in WAP 5 is …….. **( )**

**a.** 1.8 Kg/cm$^2$ **b.** 3.5 Kg/cm$^2$

**c.** 5 Kg/cm$^2$ **d.** 2.5 Kg/cm$^2$

**43.** WAG 9/ WAP 7 have …….. number of brake blocks. **( )**

**a.** 12 **b.** 24

**c.** 48 **d.** 64

**44.** Procedure of grounding three Ø loco is …….. **( )**

**a.** Stop the train, trip VCB, lower panto and switch OFF CE **b.** Rotate IG-38 in anti clockwise direction, extract key.

**c.** Insert and operate it in HOM box, and turn HOM handle by 180$^0$. **d.** All the above

**45.** When three phase loco is attached as dead and if parking brakes are released, parking brake pressure gauge reads …… kg/cm$^2$. **( )**

**a.** 0 Kg/cm$^2$ **b.** 4 Kg/cm$^2$

**c.** 5 Kg/cm$^2$ **d.** 6 Kg/cm$^2$

**46.** Continuous glowing of LSFI indicates …… **( )**

**a.** Priority 1 fault **b.** One of the sub system is isolated

**c.** Priority 2 fault **d.** Priority 1 fault or Priority 2 fault

**47.** Position of CE during cab changing is ……. **( )**

**a.** OFF **b.** ON

**c.** Self hold mode **d.** None of the above

**48.** Procedure of re-setting of MG make MCB is …… **( )**

**a.** Switch OFF CE **b.** Put OFF (Down) and ON (Up) the MCB

**c.** Switch ON CE **d.** All the above

**49.** To isolate Auxiliary converter No. 3 open MCB No. …… located in SB 2. **( )**

**a.** 127.22/1 **b.** 127.22/2

**c.** 127.22/3 **d.** 127.3

**50.** Location of BPFL is …… **( )**

**a.** FLCU **b.** Panel A

**c.** Panel B **d.** Panel C

**51.** During self hold mode, CE will remain in ON for …….. minutes. **( )**

**a.** 15 **b.** 10

**c.** 20 **d.** Will not switch OFF

**52.** To move 3 Ø loco as live or dead ensure …… brakes are released. **( )**

**a.** Parking brakes **b.** Direct brakes

**c.** Parking and Direct brakes **d.** None of the above

**53.** If ATDC (Throttle) is failed, keep …… switch in …… position. **( )**

**a.** 154, 0 **b.** 152, 1

**c.** 152, 0 **d.** 160, 1

**54.** When parking brakes are applied parking brake pressure gauge reads ……. **( )**

**a.** 0 $Kg/cm^2$ **b.** 4 $Kg/cm^2$

**c.** 3.5 $Kg/cm^2$ **d.** 6 $Kg/cm^2$

**55.** When knorr brake loco is attached as banker keep mode switch in…....position. **( )**

**a.** HLPR **b.** Lead

**c.** Trail **d.** Test

**56.** SS 15 belongs to …… sub system. **( )**

**a.** Cab 2 **b.** Fire detection

**c.** Memotel (Speedometer) **d.** Processor FLG1

**57.** Location of Emergency stop push button in three Ø loco is …… **( )**

**a.** Panel A **b.** Panel B

**c.** Panel C **d.** Panel D

**58.** Minimum voltage relay in three Ø loco is …….. **( )**

**a.** 78 in SB 1 **b.** 78 in SB 2

**c.** 86 in SB 2 **d.** 86 in SB 1

**59.** WAP 7 have …… number of dampers in primary suspension. **( )**

**a.** 8 **b.** 12

**c.** 16 **d.** 20

**60.** WAP 5 loco is provided with …… No. of direct brake cylinders and …… No. of parking brake cylinders. **( )**

**a.** 8 & 4 **b.** 12 & 12

**c.** 4 & 8 **d.** 12 & 6

**61.** Horse Power of WAG 9 loco is …… **( )**

**a.** 5440 HP **b.** 5000 HP

**c.** 8000 HP **d.** 6120 HP

**62.** Specialty of knorr brake loco is ……. **( )**

**a.** There are no BE in loco **b.** Though BE failed can work the train

**c.** BE will not fail **d.** None of the above

**63.** MPS of WAP 7 loco is …… **( )**

**a.** 100 Kmph. **b.** 120 Kmph.

**c.** 130 Kmph. **d.** 160 Kmph.

**64.** While working with MU, slave loco VCB will close with delay of …… **( )**

**a.** 5 Seconds **b.** 1 Second

**c.** 1 Minute **d.** 0.5 Seconds

**65.** WAG 9/WAP 7 have …….. number of dampers. **( )**

**a.** 16 Dampers. **b.** 20 Dampers.

**c.** 40 Dampers. **d.** 10 Dampers.

**66.** Three phase loco is provided with …… number of auxiliary converter(s). **( )**

**a.** 1 **b.** 2

**c.** 3 **d.** 4

**67.** When harmonic filter is isolated, speed of the train is restricted to ……... **( )**

**a.** 60 Kmph. **b.** 40 Kmph.

**c.** 25 Kmph. **d.** No such restriction

**68.** WAP 5 loco is provided with …… type of bogie. **( )**

**a.** Bo-Bo flexi coil **b.** Co-Co Tri mount

**c.** Co-Co flexi coil **d.** Co-Co tetra mount high adhesion

**69.** To raise the pantograph, ensure …… node information on screen. **( )**

**a.** FLG 504 **b.** FLG 550

**c.** FLG 570 **d.** FLG 590

**70.** In modified WAP 7 loco, …….. wheels are provided with parking brakes. **( )**

**a.** 2, 6, 7 & 11 **b.** 2 & 11

**c.** 1, 4, 5 & 8 **d.** 6 & 7

**71.** Three Ø loco have …….. No. of 3 phase auxiliary motors in under frame. **( )**

**a.** 2 **b.** 4

**c.** 12 **d.** 8

**72.** In three phase loco head light works with …… volts of supply. **( )**

**a.** 110 Volts DC **b.** 110 Volts AC

**c.** 24 Volts DC **d.** 12 Volts DC

**73.** Potential transformer supply is given to ……..…….. **( )**

**a.** MCE **b.** U1 & U2 meters

**c.** MVR 86 **d.** Above all

**74.** Location of Bogie blower No. 2 is …… **( )**

**a.** Machine room No. 1 **b.** Machine room No. 2

**c.** Under machine room No. 1 **d.** Under machine room No. 2

**75.** Maximum voltage of traction motor of three Ø loco is …… **( )**

**a.** 2180 Volts. **b.** 750 Volts.

**c.** 4360 Volts. **d.** 178 Volts.

**76.** If RS pressure is below 5.6 Kg/cm$^2$ and MCPs are not working, MCPA starts automatically provided BL key is in ……. Position. **( )**

**a.** C **b.** D

**c.** C or D **d.** None of the above

**77.** From Cab 1, if both head lights are not working check …… **( )**

**a.** MCB No. 310.1/1 in SB 1. **b.** MCB No. 310.1/1 in SB 2.

**c.** MCB No. 310.1/2 in SB 1. **d.** MCB No. 112.1 in SB 2.

**78.** Before operating throttle, ensure …… node information on screen. **( )**

**a.** FLG 504 **b.** FLG 550

**c.** FLG 570 **d.** FLG 590

**79.** In proportional working, maximum BC pressure in WAP 5 loco is …… **( )**

**a.** 2.5 Kg/cm$^2$ **b.** 3.5 Kg/cm$^2$

**c.** 1.8 Kg/cm$^2$ **d.** 5 Kg/cm$^2$

**80.** When panto is raised and DJ is not closed CE will switch OFF after …… **( )**

**a.** 10 Minutes **b.** 15 Minutes

**c.** Immediately **d.** CE will not switch OFF

**81.** WAG 9 has …….. number of helical springs in primary suspension. **( )**

**a.** 8 **b.** 16

**c.** 4 **d.** 32

**82.** Loco grounding switch is …… **( )**

**a.** Blue KABA key (IG 38) **b.** BL key

**c.** HOM **d.** HPT

**83.** Location of MCP 1 is …… **( )**

**a.** In machine room No. 1 **b.** In machine room No. 2

**c.** Below machine room No. 2 **d.** Below machine room No. 1

**84.** Oil cooling blower cools …… **( )**

**a.** TFP oil **b.** SR oil

**c.** TFP oil & SR oil **d.** Traction motors

**85.** Traction motors works with the principle of …… **( )**

**a.** VVVF **b.** VFVF

**c.** VVVV **d.** None of the above

**86.** Procedure of isolating truck No. 1 is …….. **( )**

**a.** Keep 154 in I position **b.** Keep 154 in II position

**c.** Keep 154 in Auto position **d.** Keep 154 in I & II position

**87.** If battery voltage drops below …… volts for 30 seconds, P2 message appears. **( )**

**a.** 92 Volts **b.** 82 Volts

**c.** 90 Volts **d.** 85 Volts

**88.** For application of parking brakes speed should be ……..…. **( )**

**a.** Below 5 Kmph **b.** Above 5 Kmph

**c.** Below 1.5 Kmph **d.** Zero Kmph

**89.** With application of direct brakes Traction is not possible beyond …… speed. **( )**

**a.** 5 Kmph **b.** 10 Kmph

**c.** 15 Kmph **d.** Zero Kmph

**90.** SS 16 belongs to …… sub system. **( )**

**a.** Cab 2 **b.** Fire detection

**c.** Memotel (Speedometer) **d.** Processor FLG1

**91.** In proportional working, maximum brake cylinder pressure in WAG 9 is …… **( )**

**a.** 1.8 $kg/cm^2$ **b.** 2.5 $kg/cm^2$

**c.** 3.5 $kg/cm^2$ **d.** 5 $kg/cm^2$

**92.** Normal position of panto selector switch is …… **( )**

**a.** Norm **b.** I

**c.** II **d.** Auto

**93.** Gear ratio of WAP 5 loco is …… **( )**

**a.** 15:77 **b.** 20:72

**c.** 17:35:67 **d.** 21:58

**94.** Location of FDU is …… **( )**

**a.** SB 1 **b.** SB 2

**c.** HB 2 **d.** Panel 'C'

**95.** In WAP 5, location of air dryer is …… **( )**

**a.** Behind MCP 2 **b.** Behind Cattle guard 1 in left side

**c.** Behind MCP 1 **d.** Behind Cattle guard 1 in right side

**96.** Procedure of re-setting of ABB make MCB is …… **( )**

**a.** Switch OFF CE **b.** Rotate the screw to vertical position

**c.** Lift the handle & Switch ON CE **d.** All the above

**97.** Between two operations of PSA …… time of pause is required. **( )**

**a.** 10 to 12 Minutes **b.** 10 to 12 Seconds

**c.** 12 to 15 Seconds **d.** 30 Seconds

**98.** Parking brake facility is available to …… wheels in WAP 5 loco. **( )**

**a.** 2, 6, 7 & 11 **b.** 2 & 11

**c.** 1, 4, 5 & 8 **d.** 6 & 7

**99.** Battery voltage in three phase loco should be …… **( )**

**a.** Above 85 Volts **b.** Above 90 Volts

**c.** Above 92 Volts **d.** Above 110 Volts

**100.** Three phase loco is equipped with …… number of battery boxes. **( )**

**a.** 2 **b.** 4

**c.** 6 **d.** 32

**101.** WAP 5 have …… number of helical springs in primary suspension. **( )**

**a.** 8 **b.** 16

**c.** 4 **d.** 20

**102.** Horse power of WAP 7 is …… **( )**

**a.** 5440 HP **b.** 5000 HP

**c.** 8000 HP **d.** 6120 HP

**103.** Three Ø loco is equipped with …….. number of single Ø auxiliary motors. **( )**

**a.** 12 **b.** 4

**c.** 8 **d.** 13

**104.** While working with MU, if un coupling takes place between the locos, the position of slave loco is …… **( )**

**a.** Systematic shut down **b.** Only VCB trips

**c.** VCB trips and panto lowers **d.** No specific action

**105.** WAP 5 has …….. No. of brake pads. **( )**

**a.** 8 **b.** 16

**c.** 32 **d.** 64

**106.** In WAP 5 loco, each wheel is provided with …… number of brake hanger(s). **( )**

**a.** 1 **b.** 2

**c.** 4 **d.** 8

**107.** To operate reverser ensure …… node information on screen **( )**

**a.** FLG 504 **b.** FLG 550

**c.** FLG 570 **d.** FLG 590

**108.** For CHBA, MCB No. …… is input and located in …… **( )**

**a.** 100 & 110 **b.** 110 & 100

**c.** 112.1 & 110 **d.** 112 & 112.1

**109.** If speed is more than …… % than MPS, audio visual indications will appear. **( )**

**a.** 0.5% **b.** 5%

**c.** 15% **d.** 50%

**110.** WAG 9/WAP 7 loco is provided with …… type of direct brakes. **( )**

**a.** Clasp **b.** Non-Clasp

**c.** Disc **d.** None of the above

**111.** While working with MU, if FDU came into service in slave loco, …….. happens in master loco. **( )**

**a.** VCB trips **b.** BZ-V-O-F sounds with P1 message

**c.** Only P1 message appears **d.** None of the above

**112.** Over current relay in three Ø loco is …… **( )**

**a.** 86 **b.** 70

**c.** 78 **d.** 74

**113.** If TFP oil temperature increased to ….$^0$C for 10 seconds, loco will shut down. **( )**

**a.** 84$^0$C **b.** 70$^0$C

**c.** 80$^0$C **d.** 47$^0$C

**114.** OHE working range of three phase loco is …….. KV. **( )**

**a.** 17.5 KV & 30 KV **b.** 17 KV & 30 KV

**c.** 17.5 KV & 30.5 KV **d.** 17 KV & 30.5 KV

**115.** To switch OFF control electronics procedure of operating BL key is…….. **( )**

**a.** D to OFF wait for 4 seconds **b.** OFF to C wait for 4 seconds

**c.** C to OFF **d.** Above all

**116.** SS 18 belongs to …… sub system. **( )**

**a.** Fire detection **b.** Memotel

**c.** Processor FLG 1 **d.** Processor FLG 2

**117.** Location of CHBA is …… **( )**

**a.** Machine room No. 1 **b.** Machine room No. 2

**c.** BUR 1 **d.** BUR 2

**118.** For cooling mode procedure of operating BL key is …….. **( )**

**a.** D to OFF wait for 4 seconds **b.** OFF to C wait for 4 seconds

**c.** C to OFF then to C again **d.** Above all

**119.** On run, dropping of MR pressure drops below 6.4 $kg/cm^2$ causes …… **( )**

**a.** TE/BE needle comes to 'O' **b.** P1 message appears

**c.** Both MCPs starts **d.** All the above

**120.** Normal position of ZTEL is ……... **( )**

**a.** ON **b.** OFF

**c.** 'Norm' **d.** Zero

**121.** To close the DJ, ensure …… node information on screen. **( )**

**a.** FLG 504 **b.** FLG 550

**c.** FLG 570 **d.** FLG 590

**122.** When ZTEL is switched ON tractive effort is limited to …….. kn in WAG 9. **( )**

**a.** 0.8 to 1.5 KN **b.** 300 KN

**c.** 150 KN **d.** 458 KN

**123.** To isolate panto No. 1 keep panto selector switch in …… position. **( )**

**a.** Auto **b.** I

**c.** II **d.** I & II

**124.** In three Ø loco each battery box is provided with …… number of batteries. **( )**

**a.** 13 **b.** 26

**c.** 3 **d.** 39

**125.** MPS of WAP 5 is ……. Kmph. **( )**

**a.** 100 **b.** 130

**c.** 140 **d.** 160

**126.** From cab 2, if both head lights are not working check MCB No. …….. **( )**

**a.** 310.1/1 in SB 1 **b.** 310.1/1 in SB 2

**c.** 310.1/2 in SB 1 **d.** 310.1/2 in SB 2

**127.** Actions of emergency stop push button in three Ø loco are …… **( )**

**a.** VCB trips **b.** Panto lowers

**c.** TE/BE comes to 'O' **d.** All the above

**128.** During WAP 7 loco brake power testing, should not to move below …….. KN. **( )**

**a.** 100 KN **b.** 150 KN

**c.** 300 KN **d.** 125 KN

**129.** In dead loco, open ……. COC for the purpose of charging auxiliary reservoir. **( )**

**a.** 70 COC **b.** 47 COC

**c.** 74 COC **d.** 136 COC

**130.** While working as banker, put on ……. Switch. **( )**

**a.** ZTEL **b.** ZBAN

**c.** BLHO **d.** None of the above

**131.** Procedure of resetting VCD in WAG 9 / WAP 7 loco is ……. **( )**

**a.** Keep throttle in 'O' **b.** Wait for 160 Seconds

**c.** Press BPVR **d.** All the above

**132.** Location of MCP 2 in three Ø loco is …… **( )**

**a.** Loco left side **b.** Loco right side

**c.** Machine room No. 1 **d.** Machine room No. 2

**133.** SS 17 belongs to …… sub system. **( )**

**a.** Fire detection **b.** Memotel

**c.** Processor FLG 1 **d.** Processor FLG 2

**134.** While moving three Ø loco as dead to avoid wheel skidding …….. **( )**

**a.** Stop the train, trip VCB, lower panto and switch OFF CE **b.** Lock 23 plunger in applied condition and release all parking BCs

**c.** Ensure loco brakes are released **d.** All the above

**135.** To perform shunting keep ……. switch in ……. position. **( )**

**a.** 154; 0 **b.** 154; 1

**c.** 160; 0 **d.** 160; 1

**136.** While working with WAP 7 or WAG 9 with light load, if Harmonic filter is isolated procedure to work with normal speed is …… **( )**

**a.** Stop the train **b.** Switch OFF CE & Isolate Bogie 1

**c.** Switch ON CE & resume traction **d.** All the above

**137.** Procedure of isolating VCD is ……. **( )**

**a.** 154 in '1' **b.** 154 in 'O'

**c.** 237.1 in '1' **d.** 237.1 in 'O'

**138.** CHBA is getting supply from …… **( )**

**a.** Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

**c.** Auxiliary converter No. 3 **d.** Traction converter No. 1

**139.** If battery voltage drops below …….. volts, loco will shut down. **( )**

**a.** 82 Volts **b.** 87 Volts

**c.** 90 Volts **d.** 92 Volts

**140.** For CHBA, MCB No. ……. is output and located in …….. **( )**

**a.** 110; SB 1 **b.** 110; SB 2

**c.** 100; HB 1 **d.** 100; HB 2

**141.** In WAG 9, normal position of direct brake handle in rear cab is …… **( )**

**a.** Apply **b.** Release

**c.** FS & Locked **d.** None of the above

**142.** Horse power of WAP 5 is …… **( )**

**a.** 5440 HP **b.** 5000 HP

**c.** 8000 HP **d.** 6120 HP

**143.** Before nullifying CSC, observe …… meters and throttle. **( )**

**a.** Ammeters **b.** Voltmeters

**c.** Screen **d.** Bogie 1 & Bogie 2

**144.** For isolation of Auxiliary converter No. 1 trip MCB No. …… **( )**

**a.** 127.22/1 in SB 1 **b.** 127.22/1 in SB 2

**c.** 127.22/2 in SB 1 **d.** 127.22/2 in SB 2

**145.** VCD is required to acknowledge after attaining of ….. kmph of train speed. **( )**

**a.** 5 kmph **b.** 1 kmph

**c.** 1.5 kmph **d.** 15 kmph

**146.** In WAG 9, when parking brakes are released PB gauge reads …… **( )**

**a.** 5 $Kg/cm^2$ **b.** 0 $Kg/cm^2$

**c.** 6 $Kg/cm^2$ **d.** 3.5 $Kg/cm^2$

**147.** During loco brake testing WAG 9 should not to move below …….. KN. **( )**

**a.** 100 KN **b.** 150 KN

**c.** 300 KN **d.** 125 KN

**148.** SS 19 belongs to …… sub system. **( )**

**a.** Fire detection **b.** Train bus

**c.** Processor FLG 1 **d.** Processor FLG 2

**149.** Continuous pressing of PSA for 68 seconds caused to …….. **( )**

**a.** Continuous sanding **b.** Penalty brakes in Dead man's mode

**c.** Vigilance penalty brakes **d.** None of the above

**150.** CSC can be activated after attaining of …….. kmph of train speed. **( )**

**a.** 5 kmph **b.** 1 kmph

**c.** 1.5 kmph **d.** 15 kmph

# Question Bank for Chief Loco Inspector
## SC Division

**Sub: General**
**Descriptive**

1 What are the duties of LI being as first official to accident site?
2 What are the duties of loco inspector during Train parting?
3 What are track parameters affect the running of a train?
4 What are the measurements to be taken in derailed Loco?
5 What are the measurements to be taken in derailed coach?
6 How an accident message will be given and explain with contents?
7 Explain how excess twist will cause an accident with diagram
8 What is sharp flange, how it will cause an accident?
9 How a joint report will be prepared at accident side by supervisors?
10 What are parameters available in strip chart of SPM and how they can be read?
11 What are the parameters of a wagon that will contribute to an accident?
12 What is cross level variation and it will cause an accident?
13 What is versine and what is the permitted value and how it will cause an accident?
14 What is super elevation what is the permitted values and how it will cause an accident?
15 Write various oscillations that happen in locomotives while on run with brief explanation of each.
16 Draw the sketch of tyre defect gauge with locating parameters at which they can measure?
17 Draw the sketch of track gauge with locating parameters at which they can measure
18 What are the reasons for short length (below 2 feet ) between point of mount and point of drop and long length (above 2 feet) between point of mount and point of drop
19 What is the procedure to be followed if any Rly. Staff found in drunken state while 'Sign-ON' and 'Sign-OFF'.
20 How the Overtime can be reduced?
21 How the PAD and PDD can reduce?
22 How will you improve the implementation of 10 hrs rule?
23 How you will improve the 'C' grade loco pilot to higher grades.
24 How will you conduct a fact finding inquiry if loco hit a foreign body being a first official to the spot?
25 What are the reasons for panto entanglement?
26 What is regulated OHE and unregulated OHE
27 What is insulated overlap span and insinuated overlap span.
28 Write the various type insulators using in OHE and at what places they will be used.
29 Write the various jumpers using in OHE and at what location they will be used?
30 What are the items to be checked at LC gate?
31 What is the latest committee contributed by the Govt. of India to improve Railway safety and what are the main recommendations to improve safety.
32 Write short notes on AIRs and ARME and their locations in BZA division.
33 Define the following
   a) Rly. accident
   b) Consequent accident

c) Indicative accident
d) Yard derailment

34 What the various types are of inquires which is held to investigate into Rly. accident
35 How the periodic medical examinations and psychological tests of staff contribute towards improved safety in train operations?
36 Describe some of the mechanical / electronic safety devices recently introduced for better safety in train operation?
37 How the monitoring and periodic screening of staff help in reducing accidents.
38 What are your suggestions to improve safety consciousness among the running staff to reduce the train accidents
39 What are the duties of CTLC?
40 What are the duties of TLC?
41 What are the duties of CC?
42 What are the duties of CCC?
43 Being a first official to the accident spot of panto entanglement how you will deal the situation.
44 Being a first official to the accident spot of manned level crossing gate how will you deal the situation?
45 Being a first official to the accident spot of train passed a stop signal at ON how you will deal the situation.
46 Being a first official to the accident spot of wagon derailment how you will deal the situation.
47 Being a first official to the accident spot of wagon derailment by taking two routes how you will deal the situation.
48 Being a first official to the accident spot of rear end collision how you will deal the situation.
49 How an electrical fault isolated in OHE
50 Who is authorized to operate Switch Mains……?
51 What are the various sectionings and parallellings provided in OHE either to isolate or to make continuity and explain the location of each location at which they used?
52 Write about payment wage act?
53 Write about minimum wages act?
54 Write about the importance of workman's compensation act.
55 What are the factors which will not comes under WCA during accident for payment of compensation?
56 What are the duties of supervisor in case of on duty injury or disablement of an employee
57 How many schedules available Workman's Compensation Act and what are they
58 What are the points to be displayed at work place under factories act?
59 Write short notes about factory act.
60 What are norms to be kept in mind while preparing loco links explain with illustration?
61 What are norms to be kept in mind while preparing crew links, explain with illustration?
62 What are the advantages of air brakes
63 What are the disadvantages of air brakes
64 In BZA loco shed 150 locos are available. How much outage can be given to goods if coaching requirement is 41.
65 What is EKM of loco and crew how these will be calculated?

66 What are the services / movements comes under ineffective outage
67 How many employees are required if 2 members working in a shift of 12 hrs roster and 8 hrs roster
68 How the assessment of goods crew will be done.
69 Expand GT KM and what is the formula for calculating the GT KM
70 What is the line capacity and what are the factors affecting the Line capacity?
71 What is operating ratio? How to improve it?
72 what is ruling gradient and how it is affecting the sectional Load?
73 What is critical block section
74 Why isolation is needed and interlocking is needed? Explain with illustration.
75 Write the advantages of MAS signals than TAS signals.
76 What is an electric shock, how first aid will be render to the electrocuted person?
77 What is the procedure to conduct running time trials?
78 How the load trials will be conducted what are factors affecting in fixing of train load.
79 Write the duty at a stretch and rest rules pertaining to Running staff.
80 Draw a sketch of crew link having 8 men
81 How the dead loco will be cleared.
82 What are steps to be taken to improve outage in goods service?
83 What are the steps to be taken to improve the average speed
84 What is punctuality? Advise how to improve the punctuality and factor affecting the punctuality.
85 What is Booked speed, Max. Permitted Speed, Minimum running time and Normal running time?
86 How to negotiate a neutral section having 30 kmph caution order at neutral section
87 How will you counsell a loco pilot to drive a train if 20 KMPH speed restriction is existing at the peak of the gradient?
88 Expand the following
1) RITES 2) IRIEEN 3) COFMOW 4) RDSO 5) CORE 6) FOIS 7) COIS 8) IVRS 9) CRIS 10) IRISET
89 Expand the following
1) BCM 2) TTM 3) SPART 4) TRR 5) TFR 6) TSR 7) PQRS 8) BWM
90 What is fire? How fires are classified and hoe the each fire will be controlled?
91 Write the procedure to be followed to condemn a detonator and fusee
92 What are the ill affects if lateral clearance is more in loco?
93 What are the points to be observed in new erection of signal
94 How tracks reading will be taken during derailment
95 What are the reasons for stalling
96 What is combined train report?
97 What is Quick coupling?
98 Write about Working time table and passenger time table and why skip time is necessary?
99 Write the types of passes available in Railways to the Railway employees.
100 Write the entitlement restrictions of various passes to running staff
101 What is the metal pass and what are the various metal passes available in Railways.
102 What is the split pass?
103 What is hospital pass?
104 What is privilege pass?
105 What are the service restrictions in issuing of number of privilege passes to the Railway employee?

106 What are the service restrictions to issue post retirement passes?
107 What is the time limit in usage of privilege pass?
108 What are the route restrictions to be followed in using of privilege pass
109 What is school pass and whom it will be issued
110 Who are eligible for include in privilege pass.
111 If wife and husband both are Railway employees, how many passes both are eligible
112 What is SDP and for what distance it can be used?
113 What is 'DCP' and to whom it will be issued?
114 Is Recognized organized labor member eligible for duty pass for proceeding any general body meeting.
115 When a son aged beyond 21 years will be included in a privilege pass?
116 When a daughter aged beyond 21 years will be included in a privilege pass?
117 Up to what date last year passes and PTOs can be issued?
118 If last year passes issued in current year up to what date it will eligible to travel?
119 If a loco pilot retiring in a 31st Jan how many privilege passes and PTOs he is eligible?
120 What is joining time for first 1000 kms?
121 How many days joining time is admissible during request transfer?
122 What are the restrictions to be followed to suspended employee in respect to promotion?
123 What type of documents can be allowed to examine by the DE.
124 Write about the documents in respect to DAR cases.
125 Who will be nominated as presenting officer and who will be nominating as inquiry officer?
126 What is periodicity of PME to be followed?
127 What are medical standards to be maintained by a loco pilot and Loco Inspector, Box boy, Running cook, and RR bearer?
128 If person completed his PME on June 20th of 43rd year, what is his next medical due date.
129 What are the PME period treated as on duty?
130 If an employee is changing his spectacles, how may days he is eligible to undergo PME ?
131 What are the differences between PME and special PME?
132 What are the occasions can the employee can be directed for special PME?
133 What action can Railway administration has to take if an employee reports after 45days absent?
134 What action can Railway administration has to take if an employee reports after 90 days absent?
135 What are the types of leaves existing in Railways?
136 Write about Leave rules.
137 What is the procedure to grant quarantine leave?
138 How many days of LAP/LHAP credited in January?
139 How many days LAP can be enchased?
140 How a sick leave can be commuted?
141 Write short notes on paternity leave.
142 " " Maternity leave
143 " " Hospital leave
144 " " Casual leave
145 " " Special casual leave
146 " " leave not due

147 If a person joins in December into Railway how many casual leaves he is eligible?
148 Is casual leave can prefix or suffix with any kind of leave?
149 How many days of causal leave eligible to running staff in a calendar year?
150 What is S.O.P in granting of leave by Sr. Supervisor to Running staff and other staff?
151 Distinguish between hospital leave and special disability leave
152 How is un availed portion of joining time will be Dealt?
153 Write the duty roster of running staff.
154 List out the categories under HOER and indicate rostered hours of each category?
155 Write the differences between Essentially Intermittent and Continuous categories.
156 Write about PNM and JCM
157 Distinguish between Excluding and Continuous category
158 Distinguish between Supernumerary posts and Temporary post
159 What is assumed attendance?
160 Write short notes on Intensive and Essentially Intermittent category.
161 What are the allowances admissible to running staff?
162 How TA will be calculated?
163 What is the formula for calculating for Over Time Allowance?
164 What is the formula for calculating for break rest allowance?
165 How shunting allowance admissible to running staff?
166 How OSRA will be admissible to running staff
167 Write short notes on OSDA
168 What is officiating allowance and how it will be calculated?
169 What is transfer grant?
170 How much amount can be granted towards spectacles?
171 What is the formula for calculating NDA?
172 What are the advances that running staff are admissible?
173 How many types of quarters available in Railways?
174 Write the entitlement of quarters to running staff?
175 What is the procedure to allot Railway quarters?
176 When a Railway servant will be placed under suspension
177 What are the compulsory deduction from subsistence allowance during suspension period
178 What are to be taken to keep the number of employees in control under the suspension
179 What are the entitlements are eligible to the suspended employee
180 What are the restrictions on the suspended employee
181 To whom the suspension are revocation orders to be served
182 What are the minor penalties
183 What are the major penalties
184 What is the procedure to impose minor penalty
185 What is the procedure to impose minor penalty during the loss of Railway properties
186 What are the differences between major and minor penalties
187 What is the procedure for imposing major penalty
188 What are the various stages in imposing procedure of imparting major penalty
189 What are the occasions to follow common proceedings
190 Write model time schedule for progress of major penalty ‘DAR’ cases?
191 What is daily order sheet?
192 What are the norms to be followed while appointing an inquiry officer
193 What are the occasions to change inquiry officer?
194 What are the norms to be followed in selecting a defense counsel?

195 Who all are called prosecution witness and defense witness
196 What are the differences between fact finding and 'DAR' inquiry
197 What are the difference of Rule No. 9 and 14 of DAR act?
198 What is the procedure to be followed during expert inquiry?
199 How an inquiry report shall be prepared
200 What are the annexure available in major penalty charge sheet and explain each of them?
201 What is the determination of appellate authority
202 What are the differences between removal and dismissal?
203 What are the facilities to be given to the defense counsel?
204 What are the circumstances to postpone and inquiry?
205 What is the role of an IO if delinquent wants to submit any defense witness/documents
206 What is the procedure to be followed while examining the prosecution witness and defense witness during inquiry?
207 What is procedure to be followed by an I.O. during any submission by CE during inquiry
208 Write the abbreviations of the following
1) DAR 2) VC 3) SPE
209 Who is the head for vigilance at zone level?
210 What are standard forms for the following
a) Order suspension under Rule No.5 (1)
b) Order suspension under Rule No.5 (2)
c) Appointment of Inquiry/Board inquiry
d) All the forms
211 What is differences between disciplinary authority and appellate authority
212 What is differences between revision and review
213 **Standards for using disciplinary proceedings**

| | | |
|---|---|---|
| 214 | Order of suspension under Rule 5 (1) | SF-1 |
| 215 | Order of deeming a railway servant under suspension under Rule 5(2) | SF-2 |
| 216 | Certificate to be furnished by suspended official under Rule 2043 (I)-R-II | SF-3 |
| 217 | Order of revocation of suspension under Rule 5(5)(c) | SF-4 |
| 218 | Charges sheet for major penalty under Rule 9 | SF-5 |
| 219 | Refusing of Permission to inspect documents | SF-6 |
| 220 | Appointment of Inquiry/Board of Inquiry | SF-7 |
| 221 | Appointment of Presenting Officer | SF-8 |
| 222 | Not printed | SF-9 |
| 223 | Disciplinary Action in common proceedings | SF-10 |
| 224 | Appointment of Enquiring Authority in common proceedings. | SF-10(a) |
| 225 | Appointment of presenting officer in common proceedings | SF-10(b) |
| 226 | Memorandum of charge for imposing minor penalties | SF-11 |
| 227 | Charge-sheet for initiation of Minor penalty proceedings in cases where Disciplinary Authority decides to hold the inquiry under Rule 11(1)(b)/11(2) | SF-11(b) |
| 228 | Taking disciplinary action for minor penalty where charge-sheet for major penalty was initially issued | SF-11(c) |
| 229 | Memorandum where action is proposed under Rule 14(i) | SF-12 |
| 230 | Standard form of sanction under Rule 2308 RII | SF-12 |
| 231 | Standard Form of charge-sheet for proceedings under Rule 2308 RII | SF-14 |

# Question Bank for Chief Loco Inspector
## SC Division

**Sub: G&SR**

1 Write the essentials of absolute block systems
2 Write the essentials of automatic block system
3 What are the trains can be dispatched to open communication in single line during total interruption of communications
4 What is station section and block section.
5 Write the station section of B-class station multiple aspect signals in double line
6 Write the station section of B-class station multiple aspect signals in single line
7 Write the station section of B-class station two aspect signals in double line
8 Write the station section of C-class station multiple aspects in double line.
9 Write the conditions to grant line clear in B-class station double line
10 Write the conditions to grant line clear in A-class station
11 Write the conditions to grant line clear in C-class station
12 Explain bloc overlap and signal overlap.
13 What type of abnormalities will come under breach of block rules?
14 What block back and block forward.
15 Why **Isolation** and **Interlocking** is required in the signalling system.
16 Explain what is unsignalled movement?
17 Explain how a train can be received in to an obstructed line.
18 Explain how a train can be received into an unsignalled line.
19 How to distinguish the general rule and subsidiary rule.
20 Write about subsidiary signals.
21 What is a Repeating Signal and Signal Repeater
22 What are the minimum equipment of signals be provided in A-class, B-class and C-class station.
23 Write about exchanging of **alright signals**
24 Write the procedure to work a train without guard.
25 Writer the procedure to work a train without brakevan.
26 Write the significance for provision of IB signal. Explain how the signal is provided with diagram and write how to pass IB signal at ON.
27 Write about detonating signals
28 Write about fusee signals
29 Write about block section limit board and shunting limit board.
30 Write about various engineering indicators come across while working a train.
31 Write about Stop-board, S-board, W-board, W/L-board, W/B-board and shunting warning board.
32 Write how to pass an automatic signal at ‘ON’ in double line and single line.
33 How the communications will be opened in single line during total interruption of communications.
34 How the trains can be worked in automatic block system if prolonged failure of automatic signals.
35 How the train can be secured in block section and station section.
36 What are the precautions to be taken while working material train?
37 How to clear the front portion and leftover portion from block section?
38 How many types of shunting available and explain each of them.
39 Write about the responsibilities for supervising the shunting
40 How many types of interlocking are available? Explain each of them

41 What are the occasions to issue a caution order? How it will be prepared and served.
42 Write about station working rules.
43 Write about various types of ODCs working.
44 How the wagons containing explosives and inflammables will be marshalled in various trains.
45 Which is the circumstance called as total interruption of communication and in double line how the trains can be dealt?
46 What is train signal register and what are the contents available in it.
47 Write about the duties of loco pilot in case loco unable to haul the load?
48 Write the duties of loco pilot in case of train parting.
49 How the trains will be worked in case one line obstructed in double line.
50 What is the significance of each column provided in T-1425(a) & (b)
51 How a damaged vehicle can be cleared?
52 How you will guide the loco pilot to clear the stalled train from the peak of the gradient.
53 A train arrived to BZA by 120 min. late. BZA-MAS is the last lap of its journey. Engg. Allowance is 34 min, traffic allowance is 48 min. and loco allowance is 32 min. Explain how the train can be gained punctuality.
54 Write about the indications of accident siren and in case of siren defect how the communication is dealt.
55 How the railway accidents are categorized?
56 How a run-over case is dealt.
57 Write short notes on block ticket
58 Write the conditions for taking off home signal.
59 Write about point indicator and trap indicator
60 Write about how a stop signal can be passed at ON.
61 What are the duties of loco pilot in absence of fixed signal?
62 Write about the hand signals.
63 Write the duties of loco pilot in case of accident.
64 Why signal warning boards are necessary and where they are provided.
65 What are the duties of loco pilot while starting from an originating station?
66 How the guard can be intimated by the loco pilot to protect the train in rear in case unable to proceed further.
67 How the engineering indicators will be provided in case of various speed restrictions within 200 meters at same spot.
68 How many types of working systems are existing and among them which are available in S.C.Railway.
69 How an automatic gate signal will be passed at ON.
70 What are the occasions to back the train and what is the procedure be followed.
71 How a semi automatic signal will be passed at ‘ON’
72 What are the warning boards available at neutral sections? Write the duties of loco pilot while passing at neutral sections.
73 How many types of freight train BPCs are available and explain them.
74 What are the communications available between loco pilot and guard?
75 What are the various injuries related to accident manual and explain each of them.
76 How the train can be worked in case explosion in track or train.
77 What are the instructions regarding the usage of portable field telephone.
78 How many types of signals available
79 How a train can be dealt on calling on signal
80 How many types of repeating signals available and explain each of them.

81 What are the signals cannot be used for shunting operation.
82 If two home signals are placed on same post, explain to which route they belong.
83 Why signal sighting committee is needed and what is the periodicity of inspections?
84 Write the duties of loco pilot on seeing a flasher light on adjacent line.
85 Write the duties of loco pilot in case of explosion of a detonator
86 How the train can be protected in case of accident in double line absolute block system.
87 How the train can be protected in case of accident in double line automatic block system
88 How the train can be protected during the total interruption of communication in single line absolute block system
89 How the train can be protected on double line during total interruption of communication
90 How the train can be stopped on out of course at station in automatic block system
91 What are the duties of loco pilot when train detained at first stop signal
92 What are the precautions to be taken when moving a C-class ODC in electrified section
93 How the trains can be dealt during struck up of permissible signal in OFF aspect.
94 What are the authorities will be given in single line to perform shunting at various occasions provided with push button type block instrument.
95 What is the authority to perform shunting in double line multiple aspect signals at various occasions?
96 Write the differences between position light shunt signals and shunting permitted indicator.
97 How a train can be dispatched from an un-signalled line?
98 What are the differences of interlocked working and non-interlocked working?
99 Why sand humps are necessary?
100 How the train can be passed on a weld failure / rail fracture or multiple rail fracture?
101 How a work spot having stop and start will be protected by engineering indicators.
102 Define ISMD ?
103 Which equipment is given the fourth option in the order of preference in obtaining line clear?
104 Which no. of channel/frequency is freezed for obtaining / granting line clear when line clear is obtained/granted through VHF sets?
105 If SM of station ‘X’ cannot obtain the attention of station ‘Y’ on the block instrument, after how many minutes, the SM ‘X’ will go to next means of communication?
106 Which type of indicative accident is reportable by telephone to Railway Board by the Zonal Railway and by the Division to the Zonal Railway?
107 Who is the accepting authority for all other Consequential Train Accident, except UMLC accidents?
108 What is the station section at a Class ‘B’ station with Multiple Aspect Signals on double line?
109 What is the authority required for performing shunting beyond outermost facing point/BSLB on a double line class ‘B’ station?
110 “Dispatch a message from a block station intimating the block station immediately in rear on a double line or either side on a single line that the block section is obstructed or being obstructed”. What is this?
111 What is the name given to the celebrations that are going on in our Railway?

# Question Bank for Chief Loco Inspector
## SC Division

**Sub: G&SR**
**Objective**

1. Approved special instructions means special instructions approved by _____
2. Anemometer is provided for measuring _____
3. Wind velocity considered dangerous is _____kmph and above.
4. No railway servant directly connected with the working of trains shall take alcoholic drinks or narcotics within _____ hours before commencement of duty.
5. BOL in TAS and MAS is _____mtrs. and _____ mtrs.
6. BOL shall be reckoned from _____signal.
7. SOL in TAS and MAS is _____mtrs. and _____mtrs.
8. Isolation is compulsory when the speed of run through trains exceeds _____kmph.
9. In semaphore territory when there are no lights in OFF position, to pass the reception signals, the Driver can proceed _____
10. To attach an O D C prior approval of _____should be taken
11. Speed of "C" class O D C shall not exceed _____ kmph on BG
12. Signal Warning Board is provided in rear of FSS at _____mtrs. in electrified section.
13. When inner distant is provided, the distant signal shall have _____and _____aspects only.
14. The calling on signal shall display _____ light in ON position during night.
15. The calling on signal may be provided below any stop signal except _____
16. Shunt Signal may be provided below any stop signal except _____
17. When shunt signal is defective _____ is the authority for the Driver to pass the signal.
18. When shunting permitted indicator is defective _____ is the authority for the Driver to pass the Shunting Permitted Indicator.
19. Detailed instructions regarding working of Shunting Permitted Indicator will be incorporated in _____
20. _____signal does not show any light in any position at any time.
21. A Semi Automatic stop signal is distinguished by _____
22. Fog signal post is located at _____mtrs. in rear of outer most signal of the station.
23. Fog signal post is painted with _____ & _____ colours alternatively.
24. Visibility Test Post is painted with _____&_____ colours alternatively.
25. Visibility Test Post is located at _____ mtrs. from SM's office.
26. Normal aspect of the fixed signals, except automatic signals, will be _____
27. The speed of a train while entering terminal goods yard is restricted to _____ kmph.
28. The speed of a train in 1 in 8 ½ turnout provided with 60 kg sleepers and rails restricted to _____kmph.

29. Normal authority to proceed on double line is _____
30. When LSS fails in token less territory on single line, the authority shall be _____
31. The minimum vacuum required in engine of a goods train is _____
32. The minimum vacuum required in brake van of a goods train is _____Cms.
33. Twin pipe system is provided in _____ _____trains
34. Under approved special instructions, when a colour light distant signal is combined with LSS the aspect in its ON position shall show _____light.
35. A gate stop signal in automatic territory is distinguished by _____marker
36. Backlight of semaphore signal will be visible in _____position of the signal.
37. On double line, authority to pass Home Signal of a class C station at ON is _____
38. When Advanced Starter is defective on double line the authority for the Driver to start a train is _____
39. On single line token less section when advanced starter is defective authority to proceed for the Driver is _____
40. The presence of outlying siding points is indicated by _____ marker board.
41. In MAS signaling a single arm home is sufficient when the speed of trains through station does not exceeds _____kmph.
42. The OFF aspect of the Warner Signal indicates _____
43. When an IB signal is defective, before starting the train the Driver shall be given _____authority.
44. When a signal is newly erected or recited, caution order shall be issued for a period of _____days.
45. Slip siding is provided to protect _____
46. Catch siding is provided to protect _____
47. Even though all signals are semaphore signals at a station, under approved special instructions _____ signal can be a colour light signal.
48. Shunting in the face of an approaching train outside the home/outer most facing points in TAS/MAS shall only be done where _____
49. While performing shunting on passenger carrying train, shunting engine with or without coaches shall first come to a halt at _____mtrs. away from the train.
50. Whenever attaching or detaching of _____four wheeler unit wagons or more taken place a fresh B P C shall be issued.
51. At intermediate station when vehicles attached to train the entry in V.G. shall be made by _____
52. A single four wheeler vehicle must not be marshalled between _____
53. By express trains a maximum of _____ coaches may be attached in rear of the rear brake van excluding officers carriage.
54. When shunting the wagons loaded with petrol the speed shall not be more than _____kmph.

55. The empty/load handle should be set in empty position when the wagon is empty or partially loaded with gross load not exceeding _____tonnes.
56. When full train is shunted across the main line, shunting must be supervised only by _____
57. While hand shunting of vehicles fitted with other than roller bearing on a gradient steeper than 1 in 200 the speed is restricted to _____kmph.
58. Shunting beyond advanced starter and up to FSS of opposite direction on single line token less section is _____
59. Shunting of wagons containing explosives shall be carried out only under the supervision of _____
60. The speed of a tower wagon shall be _____kmph.
61. The speed of an engine returning on T/609 shall not exceed _____kmph.
62. The speed restriction that has to be observed by a Driver when headlight of engine fails on BG is _____kmph.
63. _____speed restriction to be imposed by the SM when he receives the message of rail fracture of less than 30mm.
64. The speed of the light engine proceeding on T/J 602 is restricted to _____kmph.
65. Maximum speed of the relief engine proceeding on T/A 602 on double line is _____
66. Speed of the first train during temporary single line working is restricted to _____kmph
67. The speed while pushing back with guard traveling in engine showing hand signals, shall not exceed _____kmph
68. The speed of the train while pushing back with guard traveling in leading vehicle fitted with braking equipment shall not exceed _____kmph.
69. While engine returning to bring the remaining portion of train left behind in block section should not exceed _____kmph
70. A gate cum distant signal shall be located at a distance of _____mtrs. in rear of the gate
71. Where trains are booked to stop for less than 5 min. at a station outgoing tokens shall be delivered _____
72. The signals shall not be taken OFF for shunting purpose is _____
73. The gate signal in automatic signalling with extinguished A marker shall show _____light when gate is in open condition.
74. Normally the life of a detonator is _____
75. Normally the life of a fusee is _____
76. Life of a detonator after successful tests can be extended by one year each time subjected to maximum of _____
77. Life of a fusee after successful tests can be extended by one year each time subjected to maximum of _____
78. _____No. of detonators shall be given to a Fog signal man.

79. When a petrol man does not arrived to station in time as per schedule time, _____ SR can be imposed.
80. When a passenger train does not arrive within _____mins. after running time, it shall be deemed as trains unusually delayed.
81. When a goods train does not arrive within _____min. after running time the SM shall send search party.
82. During thick foggy and tempestuous weather, impairing visibility detonators shall be placed at a distance of 270 mtrs. from _____
83. In emergency during night a material train may be ordered by _____.
84. The B P C issued by T X R for a material train valid for _____days.
85. Material train should be checked by T X R once in a _____
86. When a material train is stabled at station, the responsibility for the protection is lies with _____
87. Provision of side lights may be dispensed with in _____
88. When a token extracted and subsequently misplaced in block section, the authority for the Driver of a train by SM of rear station is _____
89. When a Driver loses the token while on run in the block section he shall _____
90. Authority to proceed on automatic block system is _____
91. In Automatic block system when all signals and communications are failed, trains are worked on _____
92. When LSS fails on single line automatic block system the ATP is _____
93. When train run on T/D 912 the speed shall not exceed _____kmph
94. During TSL working the second and subsequent trains proceeding on wrong line on automatic block system shall observe a speed restriction of _____kmph.
95. Example for Breach of Block Rules_____
96. Interruption to through traffic for more than 12 hours on main line is called _____
97. On trunk routes interruption to through traffic exceeds _____ hours is treated as serious dislocation to traffic.
98. Where the damage to property exceeds Rs. _____ it is treated as serious accident.
99. First aid boxes of Station shall be checked by the respective ADMO's once in____
100. If inter distance between the stationary train & the observation is less than _____mtrs. outside station limits, is treated as an averted collision
101. An example of consequential accident is _____
102. Joint inspection of medical relief van by DMO, DSO, DME & DEE will be conducted once in _____
103. Outside the station section, when the distance between obstruction & the train having come to stop is less than 400 mtrs. it is treated as _____

104. MRT is to be turned out within _____ mins. from stations having direct dispatch facilities.

105. MRT shall be dispatched to accident stop from stations having indirect dispatch facilities within _____

106. ART shall be ready within _____ mins. by day and _____ mins. by night.

107. Accident siren four long and one short indicates _____

108. Accident siren three long and one short indicates _____

109. During day time accident relief train shall be dispatched within _____ mins.

110. No. of wagons loaded with explosives are allowed by goods train _____

111. No. of wagons containing explosives are allowed by parcel / mixed train _____

112. Minimum _____ no. of guard wagons are required between wagons containing explosives and a passenger carriage.

113. On sections when double heading is prohibited distance equivalent between train engine and the dead engine shall be _____ wagons.

114. On double line section during total interruption of communications the direction of traffic shall remain _____

115. During total interruption of communication all trains shall be stopped at _____

116. Time interval between subsequent trains on double line at the time of total interruption of communication is _____ mins.

117. Authority to enter into the obstructed block section in absolute block system is _____

118. During foggy weather impairing visibility in Absolute block system, caution order given to Driven shall contain speed restriction of _____kmph.

119. Authority to be given to Driver during TSL working is _____

120. Form No. of block ticket _____

121. Trolleys and lorries working during night under block protection on double line shall be treated as _____

122. Trains not allowed on block ticket are _____

123. Authority to receive a train on to an obstructed line is _____

124. Authority to start a train from non-signaled line provided with common starter is _____

125. Before detaching engine within station limits where gradient is 1 in 600 hand brakes of _____ vehicles shall be applied.

126. If the wagons are fitted with roller bearing _____ gradient is considered as steeper gradient.

127. Pushing back should be done only with the permission of _____

128. Whistle code to indicate fouling mark not cleared is _____

129. Whistle code to alert SM to exchange all right signal is _____

130. The only signal that can't be taken OFF during total interruption of communication is _____

131. When block telephone has failed next means of communications for obtaining line clear in order of preference is _____

132. A motor troley/ trolley/moped trolley shall be accompanied by _____ while opening out communication on single line.

133. _____ authority will be given to Driver while returning back after opening communication with or without train on single line.

134. During power block _____ trains may be allowed.

135. The danger zone is within the radius of _____ mtr. in electrified section.

136. When healthy section is temporarily isolate and re-energised, the SM shall issue caution order to the Driver of first train to restrict the speed to _____ kmph.

137. The lowest rank employee who can organize line block on control telephone is _____

138. Generally not more than _____ mins. shall be allowed to a goods train to start after engine has been attached when it is not tested by vacuum exhauster/air compressor.

139. The time permitted for GDR check of train consisting of 60 units is _____mins.

140. In ghat section area the Guard and Driver will be given _____ LR trips.

141. If an air brake train stalls at a gradient of 1/400 and above the brakes should applied by _____

142. Breathyliser test of crew is done _____

143. If a detonator is exploded by a train, _____distance to be worked cautiously.

144. The no. of detonators that are available with Driver are _____

145. _____will be switched automatically in loco, during accidents.

146. _____ is the duty of LP while approaching LC gate.

147. After detaching loco from load, the safety check that is to be exercised by the Driver before working light engine is _____

148. Weather Asst. Driver can clear a section with restricted speed in case Driver becoming incapacitated?

149. If a Driver experiences abnormal jerk before IBS, where should he stop his train?

150. At the time of taking charge if the flasher light glows but not blink what action would you take?

151. What would you do in case you get a call to work an ART, while under rest?

152. After which check / restriction, non derailed coaches of a passenger train involved in accident be allowed for onward journey?

153. What immediate action will you take if a train stops on a gradient section due to failure of OHE?

154. Action to be taken by a driver, immediately on bursting a detonator is _____

155. Necessity of brake feel test is _____

156. What would you do if calling on signal show OFF aspect while approaching a stop signal?

157. When LP passing IBS at ‘ON’ due to non-working of phone and after waiting for 5 min. _____ speed to be maintained.

158. At what distance from obstruction detonators are placed on occupied line in automatic signaling area?

159. Colour of flasher light is _____

160. In absolute block system the maximum speed of the train while pushing back during normal conditions is _____ kmph.

161. The whistle code to indicate the train parting is _____

162. The safety radius in which no person / staff should be allowed while exploding a detonator is _____ mtrs.

163. In case of working with two or more engines coupled, who shall be responsible to obey the signals?

164. After passing automatic signal at ON at what distance would you stop on observing obstruction?

165. What is the maximum speed of the train during day if no contact established with TPC and OHE supply is restored after 5 mins?

166. In absolute block system on BG at what distance detonators are placed for a protection of train?

167. The absolute block system at what distance detonators are placed before the approach signal of the station during fog?

168. On failure of OHE, after what time the flasher light should be switched on?

169. What immediate action would you take by noticing sudden drop of BP pressure / vacuum on run?

170. Special instructions are issued by _____

171. Shunting order form No. _____

172. General rules are issued by _____

173. In emergency a goods train can be ordered without guard by _____

174. When a train is held up at FSS for more than _____ mins. the Driver shall depute Asst. Driver to go to the station.

175. Divisional caution order form No. is _____

176. Authority for a relief loco / train into the occupied block section in automatic block system is _____

177. W/L board should be located at a distance of _____ mtrs. before LC gate in double line.

178. Emergency telephone point is provided at every _____ mtrs. in OHE area.

179. Mock drills of ART shall be conducted once in _____ by a safety officer.

180. At standard III interlocking station maximum speed over M/L is _____

181. While passing through a neutral section speed of a train should not be less than _____

182. During TIC on D/L ATP for the Driver is _____ and speed is _____ kmph.

183. Maximum speed for shunting operations is _____ kmph.

184. Authority to perform shunting into rear block section on D/L is _____

185. When electric loco leading cab defective and Asst. Driver is driving from trailing cab, speed should not be exceed _____ kmph.

186. Speed of a train while testing detonators is _____kmph.

187. Stop indicator is located _____ mtrs. before the stop dead and proceed speed restriction.

188. After stopping at the stop indicator Driver shall sign in the _____ book.

189. When a fusee is lighted it gives a bright red flame for _____ mins.

190. While receiving a train on an obstructed line, SM shall arrange to show a stop hand signal at _____ mtrs. before the obstruction.

191. Whistle code to indicate alarm chain pull is _____

192. FP pressure in loco shall be _____ kg / $cm^2$ and in SLR is _____ kg / $cm^2$.

193. The most restricted aspect of a distant signal is _____

194. Violently waving a white light horizontally across the body of a person indicates _____

195. The signal that protects the block section is _____

196. At present _____ No. of types of interlocking standards available.

# Question Bank for Chief Loco Inspector

## SC Division

**Sub: Official Language**

1. When official language act formed?
2. Write the communication procedure between ‘A’ and ‘B’ region central govt. officers?
3. Write the communications procedure between central govt. and state government offices of various regions
4. Write the communications procedure between state govt. offices of various regions.
5. What are the states in ‘A’, ‘B’ and ‘C’ regions
6. Write short notes on proficiency in Hindi
7. Write short notes on working knowledge on Hindi
8. Write short notes on manuals, codes other Literature articles of …. etc. to be maintained in relation to official language act.
9. What are examinations will be held for improving Hindi and explain them briefly.
10. What are the incentives to be given to clerks in encouraging Hindi?
11. What are the incentives to be given to stenographers in encouraging Hindi?
12. What are the awards established for promoting Official language.
13. What is the importance on forming of official language?
14. Write your suggestions to improve the implementation of official language?

# Question Bank for Chief Loco Inspector
## SC Division

**Sub: D & A R**
**Objective**

1 A Railway servant may be placed under suspension:---

(A) where a disciplinary action for imposition of minor penalty is pending

(B) where a disciplinary action for imposition of major penalty is pending

(C) Where a fact-finding inquiry is pending on a report against him.

(D) Where a case against him in respect of a Civil Suit is pending in a Court of Law.

2 The headquarters of a railway servant under suspension shall be :---

(A) The place where the Divisional headquarters is located.
(B) The place where his family is residing
(C) His last place of duty.
(D) No station since he is not performing duties.

3 Find out the deductions which should not be made from the subsistence allowance :---

(A) Rent for quarters.
(B) Income Tax
(C) LIC Premia
(D) Subscription to PF

4 One of the following is not a major penalty. Find out.

(A) Reduction to lower service / post / grade for a specified period without loss of seniority.

(B) Reduction to lower service / post / grade for a specified period with loss of seniority.

(C) Reduction to lower stage in time scale of pay for 4 years (NR).

(D) Withholding of increment with recurring effect for a period of 6 years.

5 One of the following is an irregular penalty. Find out.

(A) Withholding of increment with recurring effect.
(B) Withholding of increment with loss of seniority.
(C) Withholding of increment exceeding 3 years.
(D) Withholding of increment not exceeding 6 months.

6 An Enquiring Authority appointed to hold an inquiry against a railway servant :--

(A) should be incharge supervisory official of the unit of charged official.

(B) should be gazetted officer.
(C) should be higher than the charged official.
(D) should be one who is immediately in lower grade to Disciplinary Authority.

7 Annexure III to SF 5 is :--

(A) A list of Articles of Charges.

(B) Statements of imputations of misconduct in respect of each Article of charge.

(C) A list of relied upon documents.
(D) A list of witnesses by whom charges are proposed to be proved.

8 The purpose of issuing a charge-sheet to a railway servant, is :---

(A) to warn him to be careful in future.

(B) to afford him an opportunity to defend himself from the accusation.

(C) Where minor penalty is imposed affecting the pensionary benefits of the charged official. C

(D) Where services of a railway servant are to be terminated in accordance with the terms of agreement.

9 A retired railway servant may act as defence counsel.

(A) in not more than 2 cases. B

(B) in not more than 5 cases.

(C) in any number of cases.

(D) in no case.

10 Find out the Order against which Appeal does not lie :--

(A) an order of deemed suspension.

(B) an order of E.O. passed during the course of enquiry.

(C) an order made by the G.M.

(D) an order enhancing any penalty imposed by G.M.

11 "Charge" means - a railway servant's action :-- D

(A) not appriciated by the Controlling Officer.

(B) of an out-standing nature.

(C) violating a standing order and made known to him to explain.

(D) None of the above.

12 Find out among the following the aspect which is vilotive of principles of natural justice :-- C

(A) the offence alleged to have been committed by railway servant was made known to him.

(B) the charged official was given an opportunity to produce defence documents.

(C) the witnesses on behalf of D.A. were not allowed to be cross-examined by the charged employee.

(D) the I.O. appointed to hold enquiry was a disinterested person.

13 An officer who is competent to impose the penalty of "Compulsory Retirement" on a given railway servant, will also have the powers to impose :-- C

(A) any other penalty lower than CR only.

(B) any one of the minor penalties only.

(C) penalties of 'Removal' & 'Dismissal' also.

(D) no other penalty hihger or lower than Compulsory Retirement.

14 The time allowed to charged official to submit his revision petition to the appropriate authority is :-- B

(A) 15 days

(B) 45 days

(C) 60 days

(D) 180 days

15 Where departmental proceedings and criminal proceedings in a Court are running concurrently :--- B

(A) Departmental proceedings should be finalised earlier to criminal proceedings.

(B) Departmental proceedings should not be finalised till criminal proceedings are finalised.

(C) Departmental proceedings should be dropped soon after the initiation of criminal proceedings.

(D) The Court hearing the criminal case should be advised to pend its proceedings till finalisation of departmental case.

16 A witness who is summoned by Disciplinary Authority to prove the charges, deposes before I.O. in favour of charged official. Such a witness is called. D

(A) Expert witness
(B) Defence witness
(C) Prosecution witness
(D) Hostile witness
(E) Irrelevant witness

17 During re-examination of a witness in the departmental inquiry by in I.O. B

(A) a question to bring out altogether a new evidence can be asked.

(B) a question to explain certain statements made by him in the earlier cross-examination, can be asked.

(C) the witness should be asked to tell his story again.

(D) the witness should be put questions to reiterate his answers given in the examination-in-chief.

18 The power to remove a doubt or interpret any of the provisions of RS (D&A) Rules, 1968 rests with :-- D

(A) Divisional Railway Manager
(B) Chief Personnel Officer
(C) Railway Board
(D) The President of India

19 The document through which the alleged misconduct is communicated to a railway servant advising him to submit explanation, is called :-- A

(A) Charge sheet
(B) Penalty Notice
(C) Show-Cause Memorandum
(D) Daily Order Sheet
(E) None of the above.

20 "Revision" under Rule 24 (2) & 24 (3) of RS (D&A) Rules is confined to railway servants who have been imposed :-- D

(A) Any one of the MINOR penalties only
(B) any one of the MAJOR penalties only.
(C) Any penalty MAJOR or MINOR.
(D) Penalties of Dismissal, Removal and Compulsory Retirement.

21 Where there is no presenting officer nominated, a charged official [non-gazetted-serving-SCRailway] may present his case during inquiry :-- D

(A) With the assistance of any person.

(B) With the assistance of serving railway employee of any railway including Railway Board.

(C) With the assistance of only the serving railway employee of SC Railway.

(D) With the assistance of serving or retired railway employee of SC Railway.

22 Authority competent to nominate Inquiring Authority to hold enquiry in the manner specified in Rule 9 of D&A Rules against a non-gazetted railway servant is :- D

(A) General Manager
(B) Revising Authority

(C) An authority to which disciplinary authority is immediately subordinate.

(D) Disciplinary Authority

23 One of the following is barred from acting as Defence Counsel. Find out. C
(A) A serving employee of the same railway to which charged official belongs.
(B) A retired employee of the same railway to which charged official belongs.
(C) A serving employee of the same railway to which charged official belongs but pm deputation to Ministry of Labour.
(D) A serving Welfare Inspector.

24 One of the following is not a penalty under DAR. Find out. C
(A) Withholding of Privilege Passes
(B) Withholding of Post-Retirement Passes
(C) Withholding of PTOs
(D) Withholding of Privilege Passes and PTOs

25 "Revision" of a penalty under Rule 25 of RS [D&A] Rules is applicable to :--
(A) All the minor penalties only
(B) All the major penalites only
(C) All the minor and major penalties
(D) Compulsory Retirement, Removal and Dismissal

26 An official of recognised trade union may assist a charged official during departmental inquiry, if the charged official is :-- C
(A) a non-gazetted railway servant only
(B) either of Group-C or Group-D or Group-B only
(C) a member of any group
(D) another office-bearer of the same Union only

27 Speaking order means A
(A) Reasons recorded in support of decision taken by the Disciplinary Authority
(B) The memorandum communicating the penalty
(C) The written statement of defence of the charged official
(D) The report of the Inquiry Officer

28 Revision of one's own orders is permissible. NO

29 The competent authorities should themselves sign the communication of orders passed by them. YES

31 Where a penalty of compulsory retirement or removal or dismissal is subjected to suo-moto revision and the penalty is upheld, the railway servant is entitled to prefer an appeal to the authority immediately higher than the one who held suo-moto revision. NO

32 To enhance a penalty already imposed, the railway servant should be given an opportunity to show cause as to why penalty imposed on him should not be enhanced. YES

33 Where a charge is denied, imposition of major penalty without conducting of enquiry in the manner specified in Rule 9 is incorrect. YES

34 For disciplinary powers conferred on authorities in a zonal railway, Schedule - I of R.S. (D&A) Rules 1968, shall be referred to.

35 Revision Authority shall be higher in rank that that of Appellate Authority whether appeal is preferred to or not. YES

36 Denial of request of a railway servant to be heard in person before disposal of his appeal is not a violation of principles of Natural Justice. NO

37 Disciplinary Authority is always the one who is immediately subordinate to Appellate Authority. YES

38 Appellate Authority means the authority to which the disciplinary authority is immediately subordinate. YES

| | | |
|---|---|---|
| 39 | Where a railway servant is transferred to another railway after he has been imposed with a penalty, the competent authorities to dispose his Appeal and Revision Petition shall be those on the Railway where he has received the penalty. | YES |
| 40 | A Group 'D' railway employee who has been removed from service, after his appeal has been disposed (Penalty upheld) by D.P.O. can prefer Revision Petition directly to GM. | NO |
| 41 | Where a railway servant has been imposed with a penalty of reduction in time scale of pay and if it is operative from a future date, the railway servant may be promoted and operate the penalty in higher grade. | NO |
| 42 | Where a railway servant has been imposed with a penalty of reduction to lower grade / post and reduction is operate to postpone future increments, he loses his original seniority in the grade / category from which he has been reduced. | YES |
| 43 | No authority lower than appropriate appointing authority in relation to a railway servant can impose penalty of reduction to lower grade / post. | NO |
| 44 | Penalty of withholding of PRC passes can be imposed on a railway servant who retired from service during pendency of DAR proceedings. | YES |
| 45 | Suspension is a penalty. | NO |
| 46 | On appeal, if penalty is reduced, revision can still be sought. | YES |
| 47 | Revision action, subject to certain exceptions, should not be initiated until after the period for submission of appeal is over where no appeal is preferred. | YES |
| 48 | Where no penalty is imposed by Disciplinary Authority, Appellate Authority has the powers to impose the penalty on the concerned railway servant. | NO |
| 49 | Reduction of a railway servant to a lower post which he never held is in order since he continues in railway service. | NO |
| 50 | While imposing penalty of compulsory retirement it should be ensured that D.A is not lower in rank than that of the Appointing Authority. | YES |
| 51 | No penalty shall be imposed with retrospective effect. | YES |
| 52 | The minimum penalty that should be imposed in the case of proven illegal gratification is - one of Minor Penalties. | YES |
| 53 | Imposition of penalty of reduction in time scale of pay with recurring effect and also with loss of seniority is correct. | YES |
| 54 | Where a railway servant has been imposed with a penalty of imposition of withholding of increment and if it is operative from a future date, the railway servant can be promoted if due for such promotion. | YES |
| 55 | A Loco Pilot (Goods) of BZA Division is imposed with a penalty by ADEE / TRSO/BZA. Then he is transferred to GTL Division where he submitted an appeal against the penalty. The Appellate Authority in this case is Sr.DEE /TRSO/ GTL Division. | YES |
| 56 | Imposition of major penalty without conducting an inquiry in the manner specified in Rule 9, where all charges are admitted, is prohibited. | NO |
| 57 | Appellate Authority need not be immediately subordinate to Revising Authority in all cases. | YES |

| | | |
|---|---|---|
| 58 | Show cause Memorandum need not be issued to a Railway servant to impose a penalty by Revising Authority where no penalty has been imposed by Disciplinary Authority. | NO |
| 59 | Association of railway servants with Organisation banned under Unlawful Activities (Prevention) Act, 1967, are liable to be dealt in departmental proceedings. | YES |
| 60 | A railway servant seeking election to the post of a Director in which he has to exercise administrative responsibility should obtain prior sanction of the Competent Authority. | YES |
| 61 | Failure on the part of the Supervisory Official to ensure the integrity and devotion to duty of all staff working under his control is a violation of Conduct Rules. | YES |
| 62 | Railway servants are not prohibited from bringing any outside influence in respect of allotment of residential quarters. | NO |
| 63 | A railway servant has been under suspension. Major penalty proceedings have been initiated. Finally minor penalty is imposed. Hence the period of suspension shall be treated as ---------- | Onduty |
| 64 | The powers to revoke suspension order lie with ---------- | Disciplinary Authority |
| 65 | Suspension period shall be treated as duty when ---------- | Minor penality imposed |
| 66 | When charge sheet [SF 5] issued for unauthorised absence, quoting rule 3 (1) (i) [maintain absolute integrity at all times] is---------- **( necessary / not necessary )** | Necessary |
| 67 | In the cases where it is proposed to impose punishment of withholding of pension, the show-cause Notice is to be issued by ---------- (Discipllinary Authority on the Railway / President ) | President of India |
| 68 | A railway servant on deputation to an outside body ---------- (can be / cannot be) permitted to be a Defence Councel to another railway servant in a departmental inquiry. | Cannot be |
| 69 | Whether a railway servant under suspension can be permitted to act as Defence Counsel ? | Can be permitted |
| 70 | The maximum number of cases, at any point of time, a serving railway servant can accept to be the Defence Counsel are ---------- | Two cases |
| 71 | A retired railway servant may be permitted to be the Defence Counsel in not more than ---------- cases at any given point of time. | Five cases |
| 72 | Whether there is any bar for initiation of departmental proceedings on the same charge where criminal proceedings are already in process in a Court of Law ? | No |
| 73 | "Dismissal" from service causes loss of employment, pension, ---------- and ---------- | Gratuity and PF |
| 74 | "Removal" from service causes ---------- and ---------- | Employment and Pension |
| 75 | The effect of withholding of increment with cumulative effect is loss of ---------- | Seniority |
| 76 | Write the circumstances in which a retired railway servant of SC Railway against whom departmental enquiry is pending can have a serving railway servant of Western Railway as Defence Counsel | Cannot permitted |
| 77 | As per the model time schedule, the major penalty proceedings are to be completed within ---------- [period - days or months ] | 150 days or 5 months |

| | | |
|---|---|---|
| 78 | There are three kinds of Charge-sheets bearing SF Nos----------, ---------- & ---------- | SF-5, SF-11, SF-11 (b) |
| 79 | Article of charge means ---------- | Allegations made against charged employee. |
| 80 | Annexure IV to SF 5 carries ---------- | List of Witnesses to be examined |
| 81 | A supervisory official holding independent charge of a Unit has the powers to impose penalty of Censure on ---------- | Minor penalty charge sheet |
| 82 | A railway servant under suspension does not receive any pay for the period of suspension but receives ---------- | After revoked |
| 83 | An exparte inquiry means an inquiry held in the absence of ---------- | Charged employee |
| 84 | Where an appeal is disposed by Chief Personnel Officer [Admn] revision petition lies to ---------- | General Manager |
| 85 | The time allowed to a railway servant to nominate a person to be his Defence Counsel is ---------- days from the date of appointment of E.O. | 10 days |
| 86 | A legal practioner can be permitted to be a Defence Counsel to a railway servant where in a case ---------- official is nominated as ---------- to present the case in support of charges, on behalf of Disciplinary Authority, before the Inquiring Officer. | Railway, Presenting Officer |
| 87 | The time allowed to a railway servant to submit written brief of defence is ---------- days after receipt of charge-sheet. | 10 days |

G&SR/Accident Manual

Fill in the Blanks

1. Accidents are classified into -------categories and they are ----------.
2. Train accidents are divided into ------parts and they are ----------.
3. Loss of railway property above Rs..... is treated as serious accident.
4. Consequential train accidents that are reportable to Railway Board Safety Directorate are ----------.
5. General target time for turning out ART during day / night is ------ minutes.
6. General target time for turning out MRV with direct / indirect despatch facility is ------ minutes.
7. Composition of MRV is ------- and ----------.
8. Mock drill for ART / MRV shall be conducted once in ------- in case they are not moved on account of accidents.
9. ---------- is the ex-gratia to be paid in case of death/serious injury / simple injury in train accidents.
10. ---------- is the ex-gratia to be paid in case of death / serious injury / simple injury at manned LC Gate accidents where prima-facie failure is on Railways.
11. Rs..... is the compensation paid in cases of death in train accidents.
12. Accident siren three long, one short indicate ----------.
13. Accident siren four long, one short indicate ----------.
14. ----- is the duration of long siren and ------ is the duration of short siren.
15. Threshold value of Railway property loss is fixed at Rs.....
16. In the event of breakdown of control telephone, trains shall be given precedence over each other -in that process running of Goods trains takes ----------place.
17. Block instrument bell code 000000 indicate ------
18. Block instrument bell code 000000000 indicate ------
19. BCC and PCC is valid for a period of ----------
20. As a temporary measure when DSTE/ADSTE issue BCC for Signal Maintainers, such BCC is valid for -------and such extension is limited to ----------

21. Acknowledgement for block bell beat, if not received from the station adjacent, the code shall be repeated after a lapse of --------

22. Single and double line TSR No. is ----

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**Model Question Bank for the Post Of Chief Loco Inspector/Nanded Division**
**For CLI's as per the notification issued by**
**DPO/NED's Lr. No. SCR/P-NED/211/LR/CLI/Sel dt: 23.11.2020**

| S. No. | List of Subjects | No. of Questions |
|---|---|---|
| 1 | G & SR and ACCIDENT MANUAL | **403** |
| 2 | ALCO LOCOMOTIVES | **200** |
| 3 | HHP LOCOMOTIVES | **200** |
| 4 | CREW MANAGEMENT SYSTEM | **26** |
| 5 | LEAVE RULES | **41** |
| 6 | PASS RULES | **34** |
| 7 | RS (D&A) Rules, 1968 | **30** |
| 8 | POWER PLAN AND ENGINE LINKS | **24** |
| 9 | RAJ BHASHA | **92** |
| 10 | RCD | **76** |
| TOTAL | | **1126** |

**NOTE:**

1. This question bank is for guidance only.
2. The question bank is prepared as per the syllabus and for general guidance of applicants only. These are some model questions, but not exhaustive.

# General and Subsidiary Rules

**Chapter – 1 & 2**

1. Under Rule _____of the Railways Act 1989, the General Rules 1976 for the existing lines of Railways were made by the Government of India. (B)
   A)196 B)198 C)197 D) 168
2. Ordinary rules may be amended by the (A)
   (A) Railway Board B) Railway safety commissioner C) Print D) Indian government
3. Approved special instructions are issued or approved by _____ (A)
   A) CRS B) COM C) MOSR D) PM
4. _____ is the authorized officer of South Central Railway (C)
   A) CCRS B) CRS C) COM D) CEE
5. Subsidiary rules are framed by _____ (C)
   A) COM B) CRS C) Authorized officer D) MRS
6. Who is the Commissioner of Railway Safety for South Central Circle? (B)
   A)D K Singh B) Ram kripal C) A A Padhkee D) M G Sekharam
7. Present COM of SCR _____ (B)
   A) NSR Prasad B) K Siva Prasad C) B B Singh D)N Madhusudan Rao
8. A Stop Signal of a station controlling the entry of trains into next block section is called
   A) First stop signal B)Starter signal C)Shunt Signal D)Last stop signal (D)
9. A train, which has started under an ATP and has not completed its journey, is called (A)
   A) Running train B) Material train C)Special train D)FTR Train
10. Special Instructions are issued by _____ (C)
    A) COM B)CRS C)Authorized officer D) Railway Board
11. Station Limits are available between the _____ signals at a Block Station (A)
    A) Outermost B)Innermost C) Both A & B D)None of the above
12. At Class 'D' station, station limits are available between (B)
    A) Home signals B) Last Stop signals C) The ends of the Platform D) Both A&B
13. On Double Line Class '__' station Multiple Aspect Signaling (MAS), station section lies between the outermost facing points and the LSS of the station in either direction (B)
    A) A B) B C) C D) Spl. class
14. On Single Line Class __ station MAS, station section lies between the shunting limit boards or advanced starters (B)
    A) A B) B C) C D) Spl class
15. _____ means the system adopted for the time being for the working of trains on any portion of a railway (C)
    A) Loco Pilot B) Division C) System of working D) signaling system
16. _____stations are sub-classified as Class 'A', Class 'B', Class 'C' & Special Class (B)
    A) non block B) Block C) All D) Indian Railway
17. The classification of a station shall be mentioned in the _____ (C)
    A)SWR B)WTT C) Both A&B D)Operating Manual
18. Any Block Station which cannot be worked under Class 'A', Class 'B' or Class 'C' conditions is termed as _____ (C)
    A) D class B) IB station C) special class D) metro
19. Whenever LPs/ALPs/SMs/Guards/Switchmen join this Zonal Railway, on transfer, they shall attend _____ before taking independent charge (A)
    A) Refresher course B) Promotional course C) Initial Course D) No training required
20. No Railway Servant directly connected with the working of trains shall take or use any alcoholic drink, sedative, narcotic or stimulant drug or preparation within ____Hrs. before the commencement of his duty (D)
    A) 12 B) 16 C) 10 D) 8

21. If train parting is observed by any Railway Servant ___ signal should not be exhibited (A)
A) STOP hand B)Proceed hand C)Flag as low as high D) None of the above

22. If any railway servant notices that a train has parted, he shall try to attract the attention of the ____ by shouting that the train has parted and put both his hands together above his head and separate them smartly (D)
A) LP B) Guard C) SM D) LP & Guard

23. When train caught in cyclone, storm or strong wind, after stopping the train, the Guard and the Loco Pilot of the train in co-operation with the Railway Staff shall try to see that doors and windows of the coaches are kept ____ by the passengers to allow free passage of the wind (A)
A) open B) close C) partially open D) closed and locked

24. Wind velocity can be measured by (C)
A) velocity meter B) Barometer C) anemometer D) Air meter

**CHAPTER – 3**

1. Signals used for controlling movement of trains as per G & SR are (D)
A) Fixed signals B) Hand signals C) Detonating & Flare signals D) All the above

2. Under special instructions wherever any signal is located on right side of the track, that signal post shall have an _____ showing the line to which the signal is referred (A)
(A) Arrow B) P Marker C) G Marker D) S Marker

3. In color lights area Distant signal is identified by (B)
A) A Marker B) P Marker C) G Marker D) S Marker

4. The normal aspect of Distant signal is (C)
A) Proceed B)Attention C)Caution D)Stop

5. Whenever two yellow lights are exhibited in Distant signal the aspect is (B)
A) Proceed B)Attention C)Caution D)Stop

6. Whenever one yellow light is exhibited in Distant signal the aspect is (C)
A) Proceed B)Attention C)Caution D)Stop

7. The indication of the Distant signal in Caution aspect (A)
A) Proceed and be prepared to stop at the next Stop signal
B) STOP
C) Proceed and be prepared to pass next signal at such restricted speed as may be prescribed by special instructions
D) None of the above

8. Distant signal tells about the aspect of ___ signal ahead (B)
A) Shunt B)Stop C)Warner D) Proceed

9. Whenever Inner Distant is provided, Distant signal is capable of displaying ___ aspects only (A)
A) Attention and Proceed B) Proceed and Caution
C) Caution and Proceed D) Attention

10. The normal aspect of Distant signal on double distant signal area is (C)
A) Caution B)Proceed C)Attention D)STOP

11. When color light Distant signal is combined with Gate/LSS, the normal aspect of that signal is (D)
A) Caution B)Attention C) Proceed D) STOP

12. When the LC gate is open to road traffic gate-cum-distant signal shows (B)
A) Yellow B)Red C)Double Yellow D)Green

13. When the LC gate is closed and the train is required to stop at the home signal gate-

cum-distant signal shows__ (A)

A) Yellow B)Green C)Red D)Double Yellow

14. When the LC gate is closed and the train is required to stop at the main line starter or loop line starter or is required to pass through via loop line gate-cum-distant signal shows __ (D)

A) Yellow B)Green C)Red D)Double Yellow

15. Whenever the block section ahead is not clear IBS-cum-distant signal shows (C)

A) Yellow B)Green C)Red D)Double Yellow

16. When the train is required to stop at the home signal of station ahead IBS-cum-distant signal shows (A)

A) Yellow B)Green C)Red D)Double Yellow

17. When the train is required to stop at the main line or loop line starter or is required to pass through via loop line IBS-cum-distant signal shows (D)

A) Yellow B)Green C)Red D)Double Yellow

18. When the block section ahead is clear, train is to pass run through the station via main line IBS-cum- distant signal shows (B)

A) Yellow B)Green C)Red D)Double Yellow

19. When the line clear has not been obtained from the station in advance last stop signal-cum-distant signal of LC gate shows (C)

A) Yellow B)Green C)Red D)Double Yellow

20. When the line clear has been obtained and the LC gate is open to road traffic last stop signal-cum- distant signal of LC gate shows (A)

A) Yellow B)Green C)Red D)Double Yellow

21. When the line clear has been obtained and the LC gate is closed to road traffic last stop signal-cum- distant signal of LC gate shows (B)

A) Yellow B)Green C)Red D)Double Yellow

22. When the block section is not clear for an adequate distance beyond IBS last stop signal-cum-distant signal of IBS shows (C)

A) Yellow B)Green C)Red D)Double Yellow

23. When the block section is clear for an adequate distance beyond IBS and the train is required to stop at IB signal, last stop signal-cum-distant signal of IBS shows (A)

A) Yellow B)Green C)Red D)Double Yellow

24. When the train is required to pass IBS last stop signal-cum-distant signal of IBS shows (B)

A) Yellow B)Green C)Red D)Double Yellow

25. Distant signal is provided at a distance of ___ meters in rear of the stop signal (C)

A) 1400 B)1200 C)1000 D)2000

26. Whenever double distant is provided, distant signal location is __ meters from the stop signal (D)

A) 1400 B)1200 C)1000 D)2000

27. ____ is eliminated wherever two distant signals are provided (A)

A) SWB B)Calling on Board C) Distant D)Home Signal

28. At stations provided with___, the advanced starter shall be taken off and then the starter (B)

A) Starter, Advance starter B) Advance starter, Starter

C) No Priority D) None of the above

29. When a color light distant is combined with LSS/Gate signal, __ marker shall be dispensed with on the signal post (A)

A) P B)A C)G D)C

30. Color light calling-on signal is identified by ___ marker (D)

A) P B)A C)G D)C

31. Calling-on signal may be provided below any stop signal expect ___ (C)
A) Starter B)Home C) LSS D)None of these

32. Calling-on signal will show ___ light in ON position (B)
A) Miniature Yellow B)No C)Green D)Red

33. Calling-on signal shows ____ color light in OFF position (A)
A) Miniature Yellow B)No C)Green D)Red

34. The aspect of the calling-on signal when taken OFF is (B)
A) Stop B)Proceed slow C)Proceed D)All the above

35. Calling-on signal cannot be taken OFF during ___ (end) point failure (A)
A) Facing B)Trailing C) Facing or Trailing D)All the above

36. Calling-on signal is to be used only on two occasions, they are (C)
A) Whenever the stop signal placed above becomes defective
B) Whenever train is to be received on obstructed line
C) Whenever the stop signal placed above becomes defective or whenever train is to be received on obstructed line
D) None of the above

37. Condition for taking OFF _____ signal is that the train has been brought to a stand at the stop signal (D)
A) shunt B) shunting permitted indicator C) starter D) calling on

38. To take OFF calling-on signal, the train must be in the calling-on zone and if calling-on is taken OFF, it will take ____ time (C)
A) 180 seconds B) 60 seconds C) 120 seconds D) 3 minutes

39. ____ signals are of 3types, and they are disc type, position light type and miniature semaphore arm type (A )
A) shunt B) repeater C) Class A station D) two aspect

40. Shunt signal may be provided below any stop signal except ___ (C)
A) LSS B)Starter C)FSS D)Both A & B

41. Shunt signal below stop signal will show ____ in ON position (B)
A) Miniature Yellow B) No light C)Two lights are burning diagonal D)Red

42. Position light shunt signal shows ____color lights in OFF position (C)
A) Miniature Yellow B)No C)Two lights are burning oblique/diagonal D)Red

43. The aspect of the shunt signal when taken OFF is ___ (B)
A) Stop B)Proceed slow C)Proceed D)All the above

44. The aspect of the shunt signal at ON is ___ (A)
A) Stop B) Proceed C) Proceed slow D) wait 2 mins

45. Shunt signal detects the ___ points (A)
A) Facing B)Trailing C) Facing or Trailing D)All the above

46. _____ of shunt signals shall be provided in color light area (B)
A) Disc type B)Position light type C)Miniature semaphore arm type D) Both B & C

47. _____ is the authority to pass defective independent shunt signal or shunt signal below stop signal at ON (B)
A) T/369(3b) B)T/369(3b) + PHS C)T/369(1) D)T/369(1) + PHS

48. When shunting permitted indicator is defective, ___ is the authority for the LP (C)
A) T/369(3b) B)T/369(1) C)T/369(3b) + PHS D)T/369(1) + PHS

49. Detailed working instructions about shunting permitted indicator are available in (B)
A) WTT B)SWR C)BWM D)Operating Manual

50. IB signal is identified by __ marker board (C)
A) A B)P C)IB D)G

51. Gate signal in automatic section is identified by (D)

A) A Marker B)G Marker C)Illuminated A Marker D)Both B&C

52. When a fixed signal is not in use, it shall be distinguished by (C)
A) Three cross bars B) Two parallel bars C)Two cross bars D)No Bars

53. Route indicators are treated as (B)
A) Permissive Signals B)Stop Signals C)Semi-automatic signals D) Subsidiary Signals

54. Route indicators are of (D)
A) Junction type B) Multi-lamp type
C) Multi-lamp type and Stencil type D) Junction, Multi-lamp and Stencil type

55. When a signal is newly erected or shifted, it shall be jointly inspected by sighting committee consisting of transportation, (D)
A) TI,LI B)LI,SI C)TI,SI D)TI,LI,SI

56. When a signal is newly erected or shifted, caution order shall be given for a period of 90days. (D)
A) 10 B)45 C) 30 D)90

57. Signal sighting committee will go on footplate inspection once in _____ (A)
A) 3 Months B) 6 months C) 12 MONTHS D) 7 days

58. Shunting limit board/advanced starter is provided at a single line station where shunting (obstruction) is permitted outside the outermost facing points in the direction of (B)
A) A Following Train B) An approaching train C) A Running train D) Material train

59. Block section limit board is provided at ___ station with multiple aspect signals where the first point is a trailing point or where there are no points (B)
A) Class 'A' B) Class 'B' C) Class 'C' D) Class 'D'

60. Gate signal is identified by ____ (C)
A) 'P' marker board B) 'A' marker board C) 'G' marker board D) ÍB' marker board

61. Detailed working instructions about outlying siding are incorporated in ___ (A)
A) SWR B) WTT C) BWM D) Operating Manual

62. Outlying siding points are indicated by ____ (D)
A) 'P' marker board B) 'A' marker board C) 'G' marker board D) 'S' marker board

63. The speed of a goods train while entering goods terminal yard is restricted to __ (B)
A) 10 KMPH B) 15 KMPH C) 8 KMPH D) 30 KMPH

64. A signal which is taken OFF for a train will be put to ON position only in emergency to (C)
A) Give precedence C) Plan Crossing C) Avert accident D) Give ELB

65. To put back starter/advanced starter for departing train LP of the train should be advised by a ____ and obtain acknowledgement (C)
A) PLCT B) T806 C) Written memo D) T369/1

66. Fixed signals except automatic signals shall always show their ___ aspect in the normal position (B)
A) Proceed B) Most restrictive C) Stop D) Caution

67. Even though departure signals are taken OFF, LP shall stop at stations where stoppages are scheduled in the ___ (D)
A) SWR B) Operating Manual C) BWM D) WTT

68. Signal overlap in MAS shall not be less than ___, which shall be reckoned from ____ on single line (B)
A) 120,Facing points B)120,Trailing Points C)120,Starter D)180, Starter

69. Signal overlap in MAS shall not be less than ____, which shall be reckoned from ____ on double line (C)
A) 120,Facing points B)120,Trailing Points C)120,Starter D)180, Starter

70. _____ signals are prohibited to be used for shunting purpose (A)
A) Home and LSS B)Starter and LSS C)Starter and Home D)Home and Shunt

71. Slip siding is intended to protect (A)
A) Block section B) Station section C)Both A & B D)None of the above

72. Catch siding is intended to protect (B)
A) Block section B) Station section C)Both A & B D)None of the above

73. When there is a falling gradient of ___ towards station the provision of catch siding is compulsory (A)
A) 1 in 80 B) 1in 100 C)1 in 260 D)1 in 600

74. When there is a falling gradient of ___ towards block section the provision of slip siding is compulsory (B)
A) 1 in 80 B) 1in 100 C)1 in 260 D)1 in 600

75. Catch and slip sidings shall not be used for _____ purposes (A)
A) Shunting and stabling B) shunting and push back
C) Piloting and stabling D) crossing and shunting

76. Normal setting of points wherever catch/slip sidings are provided is for (A)
A) Main line B) Loop line C) Main or Loop line D)Catch/Slip

77. When trap indicator is provided, it shall show ____ during day and ___ light during night when it is in open position (A)
A)Red target,Red B)White target,White C)Green Target,No D)No Target,Green

78. All points shall normally be set for the (B)
A)Loop line B)Main line C) Goods Loop C)Sand hump

79. Point indicator wherever available shall show ___ during day and __ light during night when point is set for main line (B)
A)Red target,Red B)White target,White C)Green Target,No D)No Target,Green

80. Point indicator, wherever available shall show ____ during day and ___ light during night when point is set for loop line (D)
A)Red target,Red B)White target,White C)Green Target,No D)No Target,Green

81. From the time of disconnection to reconnection, the trains shall be admitted by __ (B)
A) pilot out B) pilot method C) On 369(3)b D) PLCT

82. By waving green flag by day and a white light by night up and down vertically as high and as low as possible indicate____ (B)
A) Stop dead B) Proceed cautiously
C) Move away from the person signaling D) All the above

83. Violently waving a white light horizontally across the body of a person indicates (A)
A) Stop dead B)proceed cautiously C)move away D)All the above

84. A green flag/green light moved slowly up and down indicates (C)
A) stop dead B) proceed cautiously
C) move away from the person signaling D) All the above

85. Detonators are also known as (D)
A)Fixed signal B)Flare signals C)Hand Signals D)Fog Signals

86. Fog Signal Post is painted ___ alternatively (C)
A)White & Yellow B)White & Black C)Yellow & Black D)Black & White

87. ____ number of detonators are given to each fog signalman (A)
A)24 B)20 C)10 D)12

88. Fog Signal Post is located at ___ meters from FSS signal (B)
A)120 B)270 C)180 D)600

89. When LP judges that visibility is impaired due to thick, foggy or tempestuous weather he shall reduce the speed of the train so as to be prepared to stop. Maximum speed of a train shall be restricted to __ kmph during dense fog on absolute block system (B)
A)75 B)60 C)30 D)Restricted Speed

90. Maximum speed of trains during dense fog in automatic block system is __ kmph when

aspect of signal ahead is Proceed (B)
A)75 B)60 C)30 D)Restricted Speed

91. Maximum speed of trains during dense fog in automatic block system is ___ kmph when aspect of signal ahead is Attention (C)
A)75 B)60 C)30 D)Restricted Speed

92. Maximum speed of trains during dense fog in automatic block system is __ when aspect of signal ahead is Caution (D)
A)75 B)60 C)30 D)Restricted Speed

93. During foggy weather a red tail lamp of approved design displaying a __ during day or night, should be provided on the last vehicle (D)
A) red flag B) yellow flashing light C) flashing light D) flashing red light

94. The knowledge of the staff that is required to use detonators shall be tested by the testing officials once in ___ (C)
A)3 Months B)6 Months C) One year D)5 Years

95. Normal life of a detonator manufactured during the year 2010 and afterwards is __ years (B)
A)7 Years B)5 Years C) 6 years D)8 Years

96. Normal life of a detonator manufactured prior to the year 2010 is __ years (A)
A)7 Years B)5 Years C) 6 years D)8 Years

97. After testing the detonator, the life can be extended by a maximum of __ extensions (C)
A)1 B)2 C) 3 D)4

98. Testing of detonator shall be done by moving an empty wagon hauled by a locomotive at a speed of __ kmph (B)
A)10 to 15 B)8 to 11 C)5 to 8 D)15 to 30

99. Whenever a signal which is detecting a point becomes defective, these points are treated as ___ (C)
A) defective B) trailing C) non interlocked D) KL points

100. A blank signal under complete power off situation is to be treated as ____ signal (B)
A) blank B) defective C) permissive D) automatic

101. Pre-warning about defective ____ signal is not required when there is calling-on signal provision or when signal post telephone is provided (C)
A) departure B) shunt C) reception D) any

102. When home is defective and pre-warning is given, the LP may pass such signal on receipt of ___ at the foot of the signal (B)
A)T/369 (3b) B)PHS C) T/369(1) D)T/369(3b)+PHS

103. Pre-warning when given it will be given in the Form No. (B)
A)T/369(3b) B)T/369(1) C)PLCT D)T/369(3b)+10 Kmph C.O

104. Authority to pass defective starter signal (if it is not LSS) is (A)
A)T/369(3b) B)T/369(1) C)PLCT D)T/369(3b)+10 Kmph C.O

105. When IB distant fails in OFF position ___is the authority for trains before dispatching (C)
A)PLCT B)PLCT+T/369(1) C)PLCT+T/369(3b) D)T/369(3b)

106. On double line absolute block section when LSS is defective _ is the authority to start a train (A)
A)PLCT B)PLCT+T/369(1) C)PLCT+T/369(3b) D)T/369(3b)

107. On single line token less section when LSS is defective ___ authority shall be given to LP (A)
A) PLCT B)PLCT+T/369(1) C)PLCT+T/369(3b) D)T/369(3b)

108. When LP passes starter at ON partly and stopped before advanced starter, subsequently line clear is taken, (D)
A)T/369 (3b) B) Memo (counter signed by Guard) + PHS
C) Memo (counter signed by Guard) + PHS + ATP D) All the above

109. When Gate signal is at ON, the LP shall wait __ minutes by day/night and gateman not

available, LP may pass the gate on the hand signals of ALP after ensuring that gate is closed (A)

A) 1 / 2 B) 2 / 1 C) 5 / 10 D) 2 / 4

110. When LP passed the Gate signal at ON and gateman is not available, the LP of the first train shall report the absence of the Gateman to the _____ (A)

A) next SM B) SCOR C) PRC D) CCC

111. Gate-cum-distant signal will be located at a distance of ____ meters in rear of the gate (C)

A)120 B)1000 C)180 D)270

112. When LP finds a reception stop signal in semaphore area in OFF condition without light, he shall observe _____ (C)

A)Most restrictive aspect B)Caution aspect C)Day Aspect D)Night Aspect

113. Whenever color light signal is flickering/bobbing and does not pick up a steady aspect at least for _____ time, the signal shall be treated as defective (B)

A)30Seconds B)60Seconds C)90Seconds D)240Seconds

114. When IBS is defective _____ is the authority to be given to LP (C)

A)PLCT B)PLCT+T/369(1) C)PLCT+T/369(3b) D)T/369(3b)

115. IB signal will have _____ facility (A)

A)Telephone B)Calling On C)Both A & B D)None of the above

116. When IBS is at ON the LP shall stop and contact _____ immediately (B)

A)SCOR B) SM of the station in rear C) SM of the station in advance D) B or C

117. When IBS is at ON and the telephone is out of order, LP after waiting for _ minutes shall proceed at a speed of _ kmph when view is clear/not clear up to next stop signal ( C)

A) 5, 20/10 B) Immediately, 20/10 C) 5, 15/08 D) immediately,15/08

118. Whenever LP passes IBS at ON after waiting for 5 minutes and unable to contact SM shall proceed with 15kmph view ahead is clear 8kmph view ahead is not clear up to the FSS of the next station even if the _ signals is showing proceed aspect. (C)

A) IB B) Starter C) FSS D) LSS

119. Wherever IBS is provided, LSS is interlocked with ____ and IBS is interlocked with __ (A)

A) Axle counters, Block instruments B) Block instruments, Axle counters

C) Both A and B D) None of the above

120. When LP pass IBS at ON ___ indication will appear to SM in rear (A)

A)K1 B)K2 C)K3 D)K4

121. Under no circumstances should a train be backed over the _____ points (B)

A)Facing B) Trailed through C)Trailing D)Non Interlocked

122. The LP shall whistle intermittently when his engine explodes detonator and take every possible caution including _____ as necessary (D)

A) Increasing of speed B) Switching On flasher light

C) Switching On Head light D) Reduction of Speed

123. After exploding the detonator, the LP shall proceed cautiously up to a distance of ____ and can pick- up normal speed if there is no obstruction beyond that distance (D)

A)1 Km B) 15Km C) 1.6 Km D)1.5 Km

124. When the LP notices a signal warning of an obstruction, except detonator, he shall ___ immediately (C)

A) Sound whistle B) Switch on Flasher light C) Stop D) All the above

125. When the LP notices a signal warning of an obstruction and no further details are noticed, after stopping 1/2 by day/night, he shall proceed ____ up to the next block station (D)

A) 15 KMPH B) 30 KMPH C) 50 KMPH D) cautiously

126. Signal warning board is located at a distance of ____ meters in rear of a stop signal (C)

A)1000 B)1200 C)1400 D)2000

127. The LP shall clearly understand that if no signal indication is available from the warning board he should control the speed as if the stop signal ahead is at __ (D)
A)Off B) Proceed C)Caution D) On

128. The LP and Guard will be given ___ no. of LR trips in absolute section before they are booked for regular working including one trip between 20:00 to 06:00hours (D)
A)6 B)2 C)1 D)3

129. If LP has not operated on a section for 3 to 6 months, he should be given ___ road learning trips in absolute/automatic sections. (B)
A) 1/2 B) 1/3 C)2/3 D) 3/3

130. A register to record observations of LP during his run must be maintained in all ___ (C)
A) Stations B) running room C) lobbies D) RCD

**CHAPTER - 4**

1. Guard shall set his watch by the station clock or the clock at the authorized place of reporting for duty and communicate the time to the LP and make entry in the……. (A)
A) CTR B)LP rough journal C)VG D)all above

2. ODC shall be allowed to be attached by a train for transport only with the prior sanction of… (C)
A)CME B)CSO C)COM D) SM

3. All passenger carrying trains should run at …….even under normal circumstances subject to observance of permanent/temporary speed restrictions in force (D)
A) Booked speed B) 10% less than MPS C) 100 kmph D) MPS

4. LP shall not make up between any two stations more time than is allowed in ….. (B)
A) G&SR B) WTT C) LP rough journal D) non of the above

5. In case of speedometers of loco is defective at crew changing points, the train should not be ……till attended or loco changed (A)
A)moved B)handed over charge C)un manned D) released

6. In case of speedometers/recorder of loco is defective during run, train should run with …… reduction in MPS up to the crew changing point (D)
A)8% B)12% C)less than 10% D)10%

7. Unless permitted under approved special instructions the maximum speed permitted on loop line is …..kmph (B)
A) 15 B) 30 C) 8 D) MPS

8. The speed of trains over non-interlocked points, turnouts and crossover shall not exceed ……kmph normally (C)
A)30 B)8 C)15 D)10

9. The speed of a passenger/goods train on 1 in 8½ turnouts (straight switch) is restricted to ……kmph. (C)
A)8/8 B) 15/15 C) 10/15 D)10/10

10. The speed of a passenger/goods train on 1 in 8½ turnouts (curved switch of 52/60 km rails) on PSC sleepers is restricted to ……kmph (A)
A) 15/15 B) 15/8 C)30/15 D)30/30

11. Isolation is necessary where the trains are permitted to run through a station at a speed exceeding ……kmph (D)
A)30 B) 15 C) 75 D) 50

12. Engine pushing is not permitted without the prior permission of ……. (B)
A) GUARD B) SM in rear C) Section controller D)SS

13. When engine is pushing a train and Guard is travelling in brake van, which is leading, the speed shall not exceed ……kmph, and Guard is not travelling in leading vehicle, the speed shall not exceed …..kmph (D)
A) 15 & 8 B) 25 & 10 C) 40 & 15 D) 25 & 8

14. During engine pushing, in the absence of PHS of Guard, LP shall ……. (C)
A) Give 2 short whistle B) enquire on walkie talkie
C) stop the train at once D) reduce speed

15. When engine is pushing a train without Guard, the duties of Guard is devolved on … (B)
A) LP B) ALP C) points man D) Goods Loco Pilot

16. When the train is working without BV, while pushing back the LP has to observe the ……..signals of Guard and proceed with ……speed (A)
A) PHS & walking B) hand & walking C) PHS & 8 kmph D) No & walking

17. An engine exclusively deployed for shunting purpose shall put on ……..color marker lights on both sides. (D)
A) white B) yellow C) blue D) red

18. When head light is defective after putting marker lights ON the train can go with a restricted speed of …….kmph (C)
A) 25 B) 60/30 C) 40 D) 50% of MPS

19. In normal position side lights of BV shall show ……..light towards rear and …….. light towards engine (A)
A)Red & white B) white & white C) No & white D) red & no

20. At night, when passenger carrying train waiting at a station for precedence, Guard shall change the side light adjacent to the line on which the following train is to be admitted, to show …….light towards rear and …….light towards engine (B)
A)Red & white B) white & red C) No & white D) red & no

21. Side lights may be dispensed with for ……..and ……. trains (C)
A)LE & ER B) diverted & ballast C) EMU & goods D) all the above

22. Last vehicle indicator during night shall be . (B)
A) Red flag B) red tail lamp light C) illuminated tail board D) any light

23. When an assisting engine is attached in rear of a train, … or ...shall be fixed behind the assisting engine (A)
A) Tail lamp or tail board B) illuminated lamp or A board
C) marker lights or classification lights D) VL board or white light

24. It will be the duty of the ……. to ensure that tail lamp or tail board is affixed only in the rear of the last vehicle. (C)
A) Points man B) station master C) guard D) TNC

25. Light engines or coupled engines shall have red marker lights …….in rear. (C)
A) Blinking B) OFF C) ON D) flashing

26. In case of obstruction on track, Guard must exhibit the flashing red hand signal lamp at ……. or red flag at……. (D)
A) Evening & Morning B) day & night C) station & block section D) night & day

27. Whenever alarm chain is pulled the Guard shall record the fact in the …….and submits a special report to ……. (C)
A) VG & Sr DSO B) memo & SS C) CTR & DRM D) CTR & Sr DOM

28. Guard shall report to the SM of the next important station, any stoppage or other irregularities in train working record the details in __ and send a special report to the (C)
A) VG & Sr DSO B) memo & SS C) CTR & DRM D) CTR & Sr DOM

29. ____ is provided in the personnel equipments of the Guard for opening/closing of the Guard's compartment of SLR (D)
A) BL B) OTL C) Special D) Universal key

30. The full form of OTL of BV equipment is ……. lock (A)
A) One time B) other tool C) office tools D) none of the above

31. Dy.SS/TNC of the originating station shall record the intactness and availability of the

BV equipment in the register and obtain acknowledgement of the ……in the register apart from VG (D)

A) ALP B) asst guard C) points man D) guard

32. Fire extinguishers: Replacement shall be done once in ……. (B)

A) A month B) a year C) 3 months D) 6 monthly schedule

33. The 2/4 wire telephone will be tested once in _ months by the SE/JE-Tele (D)

A) Every B) 3 C) 12 D) 6

34. Contents of the EL box shall be tested once in _ months by the SE/JE-TL (D)

A) Every B) 3 C) 12 D) 6

35. Guard shall obtain acknowledgement of Dy.SS or SE/JE-C&W in the _ book at destination station about the intactness of OTL and seal (D)

A) VG B) rough journal book C) CTR D) VG & Rough journal

36. In case of emergency the ALP can be authorized to drive the train at a restricted speed not exceeding ___ up to the nearest point where he can be relieved. (A)

A) 40 kmph B) 10% less than MPS C) 30 kmph D) 60 / 30 kmph

37. When leading compartment of an electric engine is defective and the train is driven from trailing compartment by ALP, the speed shall not exceed _____ (A)

A) 40 kmph B) 10% less than MPS C) 30 kmph D) 60 / 30 kmph

38. When leading compartment of an electric loco is defective and the train is driven from trailing compartment by LP the speed shall not exceed _____ (D)

A) 40 kmph B) 10% less than MPS C) 30 kmph D) 15kmph

39. In any case, there shall not be more than __ officials/staff including engine crew at any time on the engine except in emergencies (D)

A) 3 B) 4 C) 6 D) 5

40. The number of persons permitted to travel in the brake van of goods trains, in addition to the Guard, should not exceed ___ (D)

A)3 B) 4 C) 6 D) 5

41. In emergency a goods train without brake van is ordered by Sr.DOM or DOM (C)

A) COM B) Chief Control C) Sr DOM D) Sr DSO

42. Maximum number of coaches in addition to the officer's inspection coach attached in rear of SLR of passenger or mail & express trains is __ (A)

A)3 B) 4 C) 6 D) 5

43. Maximum number of bogies or its equivalent attached by a goods train is 2bogies. (C)

A)3 B) 4 C) 2 D) 5

44. Only __ damaged vehicle or damaged engine shall be attached behind the rear brake van of goods/mixed train (C)

A)3 b) 4 C) 1 D)52

45. Attaching of damaged vehicle/engine may be done during _____ and in clear weather (A)

A) Day light B) no trains in station C) night D) block

46. All irregularities in connection with the working of trains or accidents must be reported in the ___ by Guard (C)

A) VG B) rough journal book C) CTR D) VG & Rough journal

47. Entries of vehicles attached to a train at intermediate stations must be made by the station staff at those stations (C)

A) Guard B) SM only C) station staff D) points man only

48. Before starting, the Guard will be responsible for checking the load on the train with the entries on the __ of a wagon numbers, booking and destination stations, type of wagons etc (A)

A) VG B) rough journal book C) CTR D) VG & Rough journal

49. In an emergency, a goods train without Guard can be ordered by ____ (C)
A)COM B) Chief Control C) Sr DOM D) Sr DSO

50. _____ shall be issued to the LP by SM with necessary endorsement stating that the train is to run without Guard (B)
A) BPC B) CAUTION ORDER C) T806 D) VG

51. Where IBS is provided, the SM shall not dispatch a train in rear of the train running without Guard reaches the _____ (B)
A) IBS B) next station C) FSS of next station D) destination

52. In automatic block territory, no train shall be allowed to follow a train without brake van/guard until it arrives complete at the _____ station in advance (B)
A) Any Next B) next reporting C) next block D) none

53. Running of goods train _____ strictly prohibited during tempestuous weather, total interruption of communications and during temporary single line working (B)
A) With roller bearings B) with out guard C) with loaded D) with empties

54. Running of goods trains without Guard may be permitted if the last vehicle is ___ (B)
A)With roller bearings B) brake van C) with loaded D) with empties

55. Trucks loaded with girders, machinery, long timber, etc., shall be inspected by Guard at _____ and if the fastenings have slackened or the loads shifted, they shall be re-secured before the train is allowed to proceed or else the trucks detached. (B)
A) At block station B) stopping stations C) reporting stations D) crew change stations

56. In case a hot axle box found running between stations, the train shall be brought to a __ immediately and after attending LP should exercise his discretion with regard to the restricted speed at which it is safe for the vehicle to run (D)
A) 10 kmph B) 8 kmph C) stop and start D) stand

57. When SM receives advice of hot axle, that train shall preferably be admitted on the __ line (B)
A) Siding B) main C) loop D) isolated

58. The fit to proceed (BPC Form No. RS6) must be possessed by the LP of the train till the train completes its ____ (B)
A) Brake power test B) journey C) first trip D) 1000 kms

59. At the station after loading or unloading or tiling or while clearing stabled stock from a station or incase of invalid BPC, the ____ check shall be conducted (C)
A) Intensive B) BPC C) GLP D) safety

60. Whenever train engine is changed, continuity test should be conducted and same shall be recorded by the LP and Guard in their memo book (C)
A) Brake feel B) brake power C) continuity D) self

61. Time permitted for GLP check of a train consisting of 60 units is _____ (D)
A) 30 seconds B) 60 Minutes C) 45 minutes D) 30 minutes

62. Guard and LP shall prepare a GLP check memo jointly on a plain sheet in _____ (B)
A) Duplicate B) triplicate C) black ink D) blue ink

63. When a train is ordered without guard and GLP check is necessary the __ is completely responsible for conducting GLP check. However, one points-man from the station shall be deputed to assist the LP in conducting GLP check (A)
A) LP B) ALP C) guard & LP D) ALP & PM

64. The time prescribed for GLP check of train consisting of 60 units is __ minutes (C)
A) 45 B) 60 C) 30 D) 15

65. When the train is ordered without Guard, if GLP check is necessary and LP is alone conducting GLP check ___ minutes time is allowed for a rake consisting of 60 units (units may be a 4 wheeler or 8 wheeler) (B)
A) 45 B) 60 C) 30 D) 15

66. Guard shall report to SM of the next station, any stoppage or other irregularities in train working, record the details in the ___ (A)
A) CTR B) CMS C) TSR D) NONE

67. While at a station, the LP is to obey SM orders (D)
A) CLI B) CCC C) GUARD D) SM

68. The LP and ALP shall identify each signal, call out the __ of the signal to each other (C)
A) signal number B) station name C) aspect D) colour

69. The validity of CC rake BPC is ___ whichever is earlier (A)
A) 35/7500 B)30/7000 C) 30/7500 D) 35/6500

70. The validity of premium rake BPC is _____ days (D)
A) 12+4 B) 10+3 C) 35+3 D) 12+3

71. The grace period given for premium end to end BPC is _____ (B)
A) 2 days B) 3 days C) 500 kms D) till reaching HQ

72. The validity of ___ BPC is up to loading point & further up to unloading point (B)
A) Premium B) end to end C) CC rake D) container rake

73. LP and ALP shall ___ frequently during journey to see whether the train is following in a safe and proper manner (A)
A) Look back B) call out C) exchange D) whistle

74. The LP/ALP and Guard must look back at the gang staff and LC gates to see whether any danger signal is exhibited by them (B)
A) Proceed B)Danger C) caution D) board

75. After clearance of the loop line cross-over points, when a train passes through loop line the LP and Guard shall exchange all right signals ( C)
A) SM B) guard C) ALP D) cabin man

76. SM shall arrange points man to show all right signals for a run through train from off side (D)
A) Sr DOM B) guard C ) controller D) SM

77. LPsof DEMUs, DHMUs, EMUs and MEMUs are exempted from exchanging all right signals (A)
A) LP B) guard C) ALP D) SM

78. Cut off angle cock must be in open position except front side of loco and read side of LV to ensure brake continuity. ( C)
A) Close B) partially open C) open D) partially close

79. A goods train having 56 wagons, the BP pressure in engine shall be 5 kg/cm$^2$ and in BV shall be 4.8 kg/cm$^2$ (B)
A) 5/4.7 B) 5/4.8 C) 5.1 /4.8 D) 5.2/4.9

80. Normally 45minutes allowed to goods trains to start after engines have been attached. However, in case of formations tested by air compressors, the time taken for staring the train, after engine is attached, shall not exceed 20minutes (C)
A) 45 &30 B) 90&20 C)45&20 D)30&45

81. Empty/load handle shall be kept in load position when the gross load is above _ tones (A)
A) 42.5 B) 42 C) 41 D) 41 or 42

82. At the first opportunity, after starting, destroy a part of air pressure in order to get an idea of the _____ your train (C)
A) Sanders B) loco brake power C) brake power D) guards exchange

83. When train is stabled for more than 72 Hrs in case of non-closed circuit rake and more than 24 Hrs in case of closed circuit rake at station other than loading or unloading station, fresh BPC is required (A)

A) 72 & 24 B) 72 & 36 C) 12 & 24 D) 24 & 12

84. Fresh BPC is required whenever more than 4eight wheeler vehicles are attached or detached, to/from a train (C)
A) 6 B) 5 C)4 D) 10

85. All passenger carrying trains of all description shall have 100 % operative vacuum cylinders with effective brake power at the starting station (D)
A) 90 B)95 C)85 D)100

86. DV isolating handle in vertical position indicates DV is in service position (B)
A) Working B) isolate C) attached to train D) hand brake applied

87. DV isolating handle in horizontal position indicates DV is in isolation position (B)
A) Working B) Isolation C) Defective D) None of the above

88. Reduction in BP pressure causes application of brakes (A)
A) application of brakes B) release of brakes
C) release of hand brake D) application of SLR brake

89. Creation of BP pressure causes release (B)
A) Application of brakes B) Release of brakes
C) Release of hand brake D) Application of SLR brake

90. All coaching trains shall have twin pipe working (C)
A) SCR B) goods C) coaching D) none of above

91. The effective brake power in case of mail/express at the originating station should be 100% and enroute can be not less than 90% (D)
A) 100 & 85 B) 100 & 100 C) 95&90 D) 100 & 90

92. The effective brake power in case passenger and CC rakes at the originating station should be 100% and enroute shall be not specified (D)
A) 100 & 85 B) 100 & 100 C) 95&90 D) 100 & not specified

93. When a train is held up at FSS for more than _ minutes, the LP shall depute ALP to go to station. (B)
A) 15 B) 5 C) 10 D) not required

94. When a train is held up at FSS for more than __ minutes, the Guard shall proceed to protect in rear (A)
A) 15 B) 5 C) 10 D) not required

95. Whenever the engine is to be detached outside station limits when the gradient is not steeper than 1 in 600 hand brakes of the brake van and also hand brake of at least 18 vehicles must be applied (A)
A) 1in 600 B) 1 in 400 C) 1 in 260 D) any gradiant

96. Whenever the engine is to be detached outside station limits when the gradient is steeper than 1 in 600 hand brakes of the brake van and also hand brakes of all vehicles must be applied (A)
A) 1in 600 B) 1 in 400 C) 1 in 260 D) any grade

97. Guards have to verify application of brakes by observing the drop in ------ pressure gauge provided in SLR/BV (B)
A) FP B) BP C) FP&BP D) Non of the above

98. Within station limits where gradient is 1 in 400, to detach the loco of goods train, BV and 6number of wagons hand brakes are to be put ON (B)
A)8 B) 6 C) 12 D) all

99. When working a passenger train the LP shall ensure that the passenger bogies do not overshoot the platform (C)
A) passengers B) LC gate C) platform D) Name board

100. Whenever a train is stopped on a gradient for any reason like accident, loco failure, OHE supply failures, etc., it is essential and important to apply the A9 & SA9so as to hold the train safely on the gradient. (D)

A) Dynamic brake B) D1 emergency valve C) only skids D)A9 and SA9

101. When SM/station staff does not exchange all right signals, the LP shall give __engine whistle code (C)
A) 000 B) 0_0 C) 00 D)_0_

102. The whistle board in case of approach to unmanned LC gates is at a distance of __ meters. On single line it should be reduced to __ meters when view is clear (D)
A) 600,250 B)250,600 C)600,500 D) 600,350

103. When engine whistle fails on run, after clearing block section, the loco shall be attended or it shall be _____ (A)
A) ask for relief Loco B) push backed C) work from rear cab D) protect train

104. Engine whistle code for Guard to protect in rear is (D)
A) 0 0 0 B) _ _ _ C) _ 0 _ 0 D) 0 0 0 0

105. Engine whistle code for Guard to come to engine is (D)
A) 0 0 0 B) _ _ _ C) _ 0 _ 0 D) _ _ 0 0

106. Passing signal at ON with proper authority, the LP shall sound ____whistle (B)
A) 0 0 0 B) _ 0 _ _ C) _ 0 _ 0 D) 0 0 0 0

107. Engine whistle code ___ indicates ACP (D)
A) 0 0 0 B) _ _ _ C) _ 0 _ 0 D) 0 0 _

108. The bell code used in EMU/DMU trains for automatic signal or IBS passing in ON when telephone is defective is ___ (C)
A) 0000-00 B) 00-00 C) 000-000-0D)000-0-00

109. The bell code used in EMU/DMU for zone of speed restriction is over and to resume normal speed is ____ (D)
A) 0000-00 B) 00-00 C) 000-000-0 D) 0-0

110. Whenever train stopped without clearing fouling mark, Guard shall inform the SM at once and _____ to prevent any movement on the fouled line (C)
A) left hand B) Right hand C) wave a stop hand signal D) tail lamp

111. Material train shall be ordered to work with the permission of ____ (D)
A) SM B) Chief Controller C) Sr DOM/DOM D) DRM

112. To dispatch a material train for working in the block section and return back to the same station, __ authority is given to the LP (B)
A) T462A B) T462 C) T369(3)b D) PLCT

113. The required brake power of material train shall be __ (C)
A) 85% B) 100% C) 90% D) 95%

114. While stabling a material train at a station, the responsibility to secure it lies with the(A)
A) SM and Guard B) SM and LP C) GLP D) points man and guard

115. The maximum speed of TTM is __ kmph and over points and crossing is __kmph (C)
A) 15 & 10 B) 25 & 15 C) 40 & 10 D) 50 & 15

116. TTM is permitted to work in the block section only during ___ period (D)
A) Winter season B) S&T block C) Power block D) traffic block

117. When TTMs are following each other the distance to be kept between each is 120meters (C)
A) 100 meters B) 3 clear OHE masts C) 120 meters D) 180 meters

118. When TTMs are following each other the speed of the second TTM is restricted __ kmp (B)
A) 15 & 10 B) 25 & 10 C) 40 & 10 D) 50 & 15

## CHAPTER - 5

1. To receive a train on to an obstructed line, the LP shall be given ___authority where there is no calling-on signal and signal post telephone (A)
A) T/509 B) T/511 C)T/510 D) T/512

2. While receiving a train on obstructed line, SM shall arrange to post one competent

railway servant to show __ hand signal from __ meters before the obstruction (D)
A) Proceed,30 B) Stop,30 C) Proceed,45 D) Stop,45

3. To receive a train on to non-signaled line, the LP shall be given (C)
A)T/511 B) T/512 C)T/509 D) None of the above

4. To start a train from a station having common starter, the LP shall be given (D)
A)T/512 B)ATP+Common starter taken off C) T/512+ATP D) Both A and B

5. To dispatch a train form non-signaled line, where tangible authority is not given as ATP, __ authority should be given in addition to ATP (C)
A)T/509 B)T,/512 C)T/511 D)T/609

6. The speed during shunting operations shall not exceed _____ (B)
A)8 Kmph B) 15 Kmph C) 10 Kmph D)20 Kmph

7. The shunting staff need not accompany during shunt movement of light engine(s) on to a (D)
A) Free line not governed by fixed signals B) Occupied line governed by fixed signals
C) Both A and B D) Free line governed by fixed signals

8. Slip coaches shall not be kept on blocked line in the rear of a (D)
A) Train without passengers B) Train carrying passengers
B) C) Both A and B D) Train carrying passengers

9. While performing shunting on passenger carrying trains, the shunting engine or train engine with or without sectional coaches, before coming on to the formation should be stopped 20meters before the formation (A)
A)20 B)45 C) Both A and B D) All the above

10. At station where separate shunting staff are not employed, shunting operations shall be personally supervised by Guard (B)
A) SM B) GD C) ALP D) LP

11. While backing a full train from one line to another via main line the shunting supervision is done by Guard (C)
A) Shunting Master B) Station Master C) Guard D) Anyone of A,B,C

12. Carriages containing passengers shall not be moved for shunting without the personal order of the SM and Guard (D)
A) SM B) Guard C) LP D) Both A and B

13. While performing shunting, the points which are not protected by signals must be locked by clamped or cotter bolted and padlocked method (C)
A) Clamped B) cotter bolted and padlocked
C) Clamped or cotter bolted and padlocked D) Both A and B

14. While shunting wagons containing explosives, the supervision shall be done by SM (A)
A) SM B) Guard C) A or B D) None of the above

15. The maximum speed while shunting of wagons containing explosives and POL products shall be __ kmph (B)
A)10 B) 8 C) 15 D) 5

16. Where shunting operations are supervised by Guard/SM, LP shall be given Form No.(A)
A) T/608 B) T/602 C) T/609 D) T/806

17. Shunting of roller bearing vehicle on a steep gradient shall be done only with loco attached towards the ___ (B)
A) Raising side of the gradient B) falling side of the gradient
C) A or B D) All the above

18. For shunting purpose ___ gradient is considered as steep gradient for roller bearing wagons and 1 in 400gradient for non-roller bearing wagons (C )
A) 1 in 400, 1 in 260 B) 1 in 600, 1 in 400 C) 1 in 260 , 1 in 400 D) 1 in 260,1 in 600

19. Maximum hand shunting speed is 5kmph (D)

A)10 B) 8 C) 15 D) 5

20. To detach loco of a goods train having BOXN/BCN/BRH, etc., minimum 6no. of vehicles hand brakes are to be applied from each end in addition to the hand brakes of BV (C)
A) 12 B) ⅓ of formation C) 6 D) 18

21. Before leaving the station/yard, the LP and Guard should jointly sign record in the _____register to be maintained with SM that the load & loco has been secured (C)
A) Abnormality B) Shunting C) Stable load D) Sign off

**CHAPTER - 6**

1. When LP of the train experienced any abnormal condition in the track, stop his train at FSS of the next station and inform SM ( C)
A) At effected KM. B) At Station building C) At FSS of the next station D) At Starter of the next station

2. Rail fracture of less than 30mm, the speed of first train shall be 10kmph, the speed of second and subsequent trains shall be 15kmph. (B)
A) 15,30 B) 10,15 C) 30,45 D) 15,30

3. The SM who received the message about the rail fracture through LP, he shall arrange to issue caution order of 15kmph over the fractured rail (D)
A) 10 B) 30 C) 45 D) 15

4. Rail fracture of more than 30mm or multiple fractures, certification by PWM/PWIis required to pass trains (D)
A) ADEN B) DEN C) Sr.DEN D) PWI/PWM

5. When a train is dispatched on T/J 602 (shall not be passenger carrying train), the speed shall not exceed ___ kmph (C)
A) 10/08 B) 15/10 C) 15/8 D) 30/15

6. During TSL working, LP and Guard shall be given authority _____ (B)
A) T/C602 B) T/D602 C) T/A 602 D) T/B602

7. During TSL working, the speed of first train shall be ___ kmph (C)
A) 10 B) 15 C) 25 D) Run at their booked speed

8. During TSL working, the speed of second and subsequent trains shall ___ (D)
A) 10 B) 15 C) 25 D) Run at their booked speed

9. During TSL working, when the train is proceeding on wrong line, the train shall be piloted out on a (B)
A) written authority issued by the SCOR B) written authority issued by the SM
C) written authority issued by the GD D) Any of the above

10. During TIC on double line __ is the ATP authorizing the LP to proceed with a restricted speed of __ kmph (A)
A) T/C602, 25/10 B) T/C602, 15/10 C) T/B602, 25/10 D) T/B602, 15/10

11. When trains are dealt on T/C 602, the time interval between two trains shall be __ minutes (D)
A) 10 B) 15 C) 20 D) 30

12. During TIC on double line, when a train is stopped in the block section on account of accident, Guard shall protect the train by placing one detonator at __ meters and two detonators, 10 meters apart, at __ meters from the train (D)
A) 600,1200 B) 90,180 C) 250,270 D) 250,500

13. During TIC on double line, if no one from the station turns up within 10minutes, Guard shall protect the train in rear and ALP may be sent to station. (A)
A) 10 B) 20 C) 5 D) 0

14. Light engine/vehicle which is going to open communication shall proceed on authority (B)
A) T/A602 B) T/B602 C) T/J602 D) T/I602

15. When enquiry is made for more than one train during TIC on single line, __ forms are given to the light engine/vehicle which is going to open communication (A)
A) T/B 602 & T/E 602 B) T/B 602 & T/I 602
C) T/C 602 & T/E 602 D) T/C 602 & T/I 602

16. Light engine/vehicle, which is going for opening of communication, shall proceed with a restricted speed of 15/10kmph (B)
A) 15/8 B) 15/10 C) 10/8 D) 25/10

17. After opening communication conditional line clear ticketis ATP for the light engine/vehicle to come back (C)
A) Paper line clear ticket B) conditional line clear ticket
C) Pilot in Memo D) Pilot out Memo

18. UP/DN CLCT is prepared in Form No. T/G 602 or T/H 602 (B)
A) T/A 602 or T/B 602 B) T/G 602 or T/H 602 C) T/E 602 or T/I 602 D)T/C 602 or T/D 602

19. When there is even flow of trains, enquiry and reply messages are sent through the (C)
A) Points man B) Off duty SM C) The Guard of the preceding train D) None of the above

20. If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _ kmph, after a clear interval of __ minutes (C )
A) 25/10, 10 C) 25/10, 30 C) 15/8, 30 D) 25/10, 15

21. If it is required to dispatch a relief engine or relief train into obstructed block section, it can be dispatched by issuing T/A 602 (A)
A) T/A602 B) T/B602 C) T/C602 D) T/D602

22. If a passenger train/goods train does not turn up even after normal running time and 10/20minutes, SM shall arrange to send competent railway servant (B)
A) 20/10 B) 10/20 C) 15/10 D) 15/20

23. When engine disabled, if the LP expects that putting the engine in working order will take more than 5 minutes, he will request the Guard to arrange for a relief engine ( A)
A) 15 B) 10 C) 5 D) 30

24. If LP enters block section without authority and subsequently sends his ALP with a memo to SM in rear, that SM shall give PLCT (B)
A) Caution order B) PLCT C) Pilot out memo D) CLCT

25. If LP enters block section without authority and subsequently sends his ALP with a memo to SM in advance, that SM shall give Caution Order (A)
B) Caution order B) PLCT C) Pilot out memo D) CLCT

26. When a train parts, if the LP finds it necessary to proceed to the station ahead, he shall, on approaching the station give one long, one short, one long, one short whistle and act as per aspects of signals of station/gate (B)
A) one short, one long, one short,one long B) one long, one short, one long, one short
C) One long, two short D) Two short, one long

27. During divided train working, the Guard will prepare a written permission in the form (T/609) in duplicate and give to LP to proceed to the next station (B)
A) Single copy B) Duplicate C) Triplicate D) Four copies

28. During night or thick foggy or tempestuous weather impairing visibility, the second portion of the train left in section shall be protected in the front by Guard (A)
A) night or thick foggy or tempestuous weather impairing visibility

B) Day or thick foggy or tempestuous weather impairing visibility
C) Night or tempestuous weather impairing visibility
D) D)night or thick foggy weather

29. During divided train working, on approaching the station, the LP shall stop at home signal even though it is OFF and give _____ whistles. (A)
A) _0_0 B) 0_0_ C) 0 0 _ _D) _ _ 0 0

30. When a train without guard is divided in the section, after dropping the first portion, light engine returning to pick up second portion shall proceed on T/A 602authority (B)
A) T/609 B) T/A602 C) T/B602 D) T/C602

31. In case of fire accident in a passenger carrying train, the first objective to be achieved is to save life and property (C)
A) Clear the section B) Record coach number
C) save life and property D) Inquire about incident

32. Water shall not be used for extinguishing fires on electrical equipment (B)
A) Sand B) Water C) Fire extinguishers D) All the above

**CHAPTER – 7, 8 & 9**

1. The system of working used between Lingampally – Secunderabad junction – Moula Ali of SC division is ____ (A)
A) Absolute block system B) Automatic block system
C) One train only system D) Pilot train system

2. On SCR single line, automatic block system is used between Vijayawada Jn. And Krishna Canal Jn. (3rdline) (A)
A) BZA and KCC (3Rd line) B) SC and KZJ C) BZA and MTM D)LPI and HYB

3. The automatic signal shall not assume OFF position unless the line is clear not only up to the next automatic signal but also for any adequate distance of not less than 120meters on double line. (A)
A) 120 B)180 C)150 D)300

4. Automatic stop signal is identified by 'A' marker board (B)
A) Illuminated 'A'marker B) 'A' Marker C) 'G'Marker D) Both B and C

5. Semi-automatic stop signal is identified by illuminated 'A' marker light when working as automatic signal (A)
A) Illuminated 'A'marker B) 'A' Marker C) 'G'Marker D) Both A and C

6. Normal aspect of automatic signal is proceed (C)
A) Caution B) STOP C) proceed D) Attention

7. All Guards, LPs, ALPs, Motormen who are required to work in automatic block system shall undergo one day intensive training and a certificate shall be renewed once in__ (D)
A) One Year B) Six years C) Three years D) Six months

8. When LP passes an automatic signal at ON, he shall observe an SR of 10kmph (C)
A) 10/8 B) 15/10 C) 10 D) 15/8

9. The Guard shall show a stop hand signals towards the rear when the train has been stopped at an automatic stop signal. (B)
A) Proceed B) STOP C) No Hand signal D) None of the above

10. After passing an automatic signal at ON, the LP of the following train hauled by any loco shall ensure that a minimum distance of 150meters is maintained between his train and preceding train. The distance may be reduced to 75meters in case of EMU train (D)
A) 150,120 B) 75,150 C) 120,75 D) 150,75

11. When LSS fails on single line automatic block system, T/C 1425 (UP) or T/D 1425 (DN) and the written authority in the prescribed form ___ shall be given to LP of the train. (D)
A) PLCT+T/B 912 B) PLCT+ T/C912 C) T/369 (3b)+ 10 KMPH C.O D) PLCT+T/A912

12. When LSS fails on double line automatic block system, T/369(3b)shall be given to LP of the train to go with a restricted speed of 10kmph (C)
A) PLCT+T/B 912 B) PLCT+ T/C912
B) C) T/369 (3b)+ 10 KMPH C.O D) PLCT+T/A912

13. When a train is stopped in an automatic block signaling section on single line and train cannot proceed further, the Guard shall protect in rear duly placing one detonator at 90meters and 2 detonators, 10 meters apart at 180meters (B)
A) 90,190 B) 90,180 C) 600,1200 D) 250,500

14. During prolonged failure of signals but communications are available on double line automatic block system, the authority given to LP T/D 912. The LP of first train shall go with a restricted speed of 25kmph (D)
A) T/912, 25 B) T/B912 ,25/10 C)T/C 912,15 D)T/D912, 25

15. When signals and communication fail on double line automatic block system, the authority given to the LP is T/B 912which authorizes the LP to go with a restricted speed of 25/10kmph (B)
A) T/912, 25 B) T/B912 ,25/10 C)T/C 912,15 D)T/D912, 25

16. The time interval between two trains during signal and communication failure on double line automatic block system shall be 15minutes (C)
A) 5 B) 10 C) 15 D) 30

17. During TSL working automatic block system, the first train proceeding on right line when signal and communications are working shall proceed on T/D 602 & T/A 912authorities (D)
A) T/D602 B) T/A912 C) PN D) Both A & B

18. During TSL working automatic block system when signals and communications are working, the second and subsequent trains proceeding on right line shall proceed on private numbers (C)
A) T/D602 B) T/A912 C) PN D) Both A & B

19. The first train running in the wrong direction during TSL working on automatic block system shall proceed with a restricted speed of 25kmph ( C)
A) 10 B) 15 C) 25 D) Normal Speed

20. The second and subsequent trains running in the wrong direction during TSL working on automatic block system shall proceed with a speed of normal speed (D)
A) 10 B) 15 C) 25 D) Normal Speed

21. Authority to dispatch a light engine on single line automatic block system during prolonged failure of all signals when no communications are available is T/B 602 (B)
A) T/A912 B) T/B912 C)T/C 912 D) T/D 912

22. To dispatch a relief loco/train into the occupied block section T/C 912is given as the ATP for the relief loco/train in the automatic block system. (B)
A) T/C 602 B) T/C 912 C) T/B 602 D) T/B912

23. Relief loco/train shall proceed with a restricted speed of 15/10kmph. (C)
A) 10/8 B)15/8 C)15/10 D) 25/10

24. A fixed signal which can be operated either as an automatic stop signal or a manual stop signal, as required, is called semi-automatic stop signal (B)
A) Automatic stop signal B) Semi-automatic stop signal C) A or B D) A and B

25. Gate stop signal in automatic signaling territory is distinguished by the provision of 'G' marker and illuminated 'A' marker when gate is closed condition. (A)
A) 'G ' Marker B) 'A' Marker C) 'P' Marker D) None of the above

26. When gate signal in automatic signaling territory is at ON and 'A' marker is illuminated, LP shall follow the rules of passing automatic signal at ON (B )
A) Gate B) Automatic C) Both A and B D) A or B

27. When gate signal in automatic signaling territory is at ON and 'A' marker is not illuminated, LP shall follow the rules of passing gatesignal at ON till he passes the gate and further follow the rules of passing automatic signal at ON (C )
A) Gate B) Automatic C) Both A and B D) A or B

28. LP shall pass a semi-automatic signal with extinguished 'A' marker at ON, on receipt of written authority T/369 (3b) & PHS (D)
A) T/A912 B) T/A912+ PHS C) T/369 (3b) D) T/369 (3b) + PHS

**CHAPTER – 14, 15 16 & 17**

1. OFF position of LSS is the normal authority to proceed on single line token less sections or double line sections (A)
A) Off position of LSS B) Off position of Home C) Toke issuing D) PHS of SM

2. At stations where cabin is not provided, the Guard of the train, after verifying the last vehicle is standing clear of the fouling mark, shall give an all right signal to SM by waving his arm by day and a white light by night (B)
A) green light B) white lightC) green flag D) both arms

3. On double line or on single line when block instrument is defective PLCT is given as ATP for the LP (C)
A) T369(3)b B) T369(1) C)PLCT D)shunt key

4. Integrated block means blocking of a portion of line for maintenance work by more than one department (D)
A) Combined B) engineering C) Multiple D) Integrated

5. Shadow block means a block, availed from either end of the block section between two block stations simultaneously (B)
A) Combined B) Shadow C) Multiple D) Integrated

6. Number of material trains permitted during the line block or integrated block or shadow block is only one (D)
A) 2 B) more than 2 C) One Loco and one train D) one

7. During line/integrated/shadow block, if the units are allowed on to the wrong line, units shall be piloted out on pilot out memo after ensuring correct setting, clamping and padlocking of the points (A)
A) Pilot out memo B) T369(3)b C) PLCT D) PLCT+PHS

8. During line block, to receive the units coming on right line, the first unit can be received on reception signals and the following units will be admitted on calling-on signal or written authority __ (C)
A) T511 B) T602C C) T509 D)T509A

9. During line /shadow block, if the units are coming on the wrong line, units shall be received on __ after ensuring correct setting, clamping and padlocking of the points (B)
A) Pilot out memo B)pilot-in memo C) taking off signals of right line D) T369(3)b

10. When the train is required to stop and the restriction is likely to last only for a day or less, a banner flag shall be exhibited at a distance of 600 meters on BG. In addition, stop hand signal shall be shown at a distance of 30meters from the place of obstruction, at the banner flag and at a distance of 45 meters from the 3 detonators (A)
A) 600 & 30 B) 400 & 30 C) 1200 & 600 D) 180 & 90

11. Stop indicator is located at 30 meters from the obstruction (A)
A) 30 B) 90 C) 1200 D) 45

12. Speed indicator is located at 30 metersfrom the obstruction (A)
A) 30 B) 90 C) 1200 D) 45

13. ___ indicators are caution indicator, speed indicator, stop indicator and termination

indicator (C)

A) safety B) block section C) engineering D) track

14. Caution indicator is located at 1200 meters before the spot on BG and _ meters on MG (A)
A)800 B) 90 C) 1200 D) 180

15. After stopping at the stop indicator, the LP shall sign in the __ book and proceed with 8kmph (A)
A) ER-7 B) ER-1 C)ER-8 D) ER-stop and proceed

16. When major work such as relaying and re-gardening is in progress a speed restriction of 50kmph shall be observed on the adjoining line of double line or multiple line section (D)
A) 15 B) 30 C) 45 D)50

17. When water over tops the ballast level but is below rail level, the track should be walked over by two men abreast one at either end of the sleepers (C)
A) track B)ballast C) Sleepers D) Locomotive

18. When water over tops the rail __ shall certify by walking over and probing that the track is safe and allow the train to go at a speed not exceeding 8 kmph (D)
A) gang man B) AEN C) Guard D) PWI

19. When SMs of both ends received trolley/lorry notice, they shall stop all the trains entering into the section and issue _____ (A)
A) T409 B)T/A409 C) PLCT D) pilot out memo

20. Neutral section lies between two consecutive sub-stations (B)
A) Block-stations B) Sub- stations C) Automatic- sections D) Both A and C

21. Danger zone means the zone lying within 2meters radius around any live equipment (A)
A) 2 B) 2.5 C) 3 D)5

22. Engine crew of all trains shall report any defect/irregularity noticed in the OHE to ( C)
A) PRC B) TLC C) TPC/SCOR D) None of the above

23. Warning boards shall be fixed on the OHE masts in rear of neutral sections at a distance of 500 and 250meters respectively ( A)
A) 500,250 B) 300,200 C) 180,120 D) 90,190

24. The speed of the train while passing through neutral section shall not be less than __ kmph (C)
A) 25 B) 10 C) 30 D) 8

25. During power block ___ trains are only permitted to run (B)
A) Electrical B) Diesel C) A and B D) A or B

26. The Guard shall not allow the train with the ODC to enter the section (electrified) until the permit-to- work is received by TPC (A)
A) TPC B) DOM C) DEN D) PWI

## ACCIDENT MANUAL

1. Accidents are classified ___ (D)
A) Train, yard accidents B) Indicative accidents
C) Equipment failue & Unusual incidents D) All the above

2. An example of consequential train accident is collision, fire, LC gate & derailment (A)
A) Collision, fire, LC gate & derailment B) SPAD, averted collision & breach of block
C) SPAD & Fire D) Breach of block

3. An example of indicative accident is ____ (B)
A) Collision, fire, LC gate & derailment
B) SPAD, averted collision & breach of block rules
C) Yard Derailment
D) Equipment Failure

4. Train passing signal at danger is classified under indicative accidents (C)
   A) train B) yard C) indicative D) equipment failure & unusual incidents
5. In an accident if the damage to railway property the value of which exceeding Rs. 2 crores, such accident shall be treated as a ___ accident (C )
   A) Major B) Minor C) Serious D) Normal
6. For statistical purpose, accidents have been classified under categories 'A' to 'R', excluding I and O (D)
   A) Q and O B) I and J C) K and L D) I and O
7. If, outside the station limits, the distance between the two trains is 400 metersor more, such occurrence may not be treated as averted collision (B)
   A) 200 Meters B) 400 Meters C) 100 Meters D) 300 Meters
8. When SM receives message about unsafe condition of tanks, rivers and bunds, he shall stop the train and issue CO to observe ____ and reduce speed as necessary (C)
   A) Speed restriction B) Caution C) Special Caution D) 10 Kmph
9. When persons are knocked down or run over and dead, no responsible person is available, body shall be handed over to nearest gate lodge or next station in the direction of movement (B)
   A) Police station, gate lodge B) Gate lodge, Next station
   C) Police station, Hospital D) Any of the above
10. When murder took place in a second class or sleeper class compartment, the carriage will be detached at the station where the crime was detected (C)
   A) BPC issued B) Crew Changed
   C) Crime was detected D) Separate shunting staff available
11. As per classifications, collisions come under class (A)
   A) A B) B C) C D) H
12. As per classifications, fire in train come under class B (B)
   A) A B) B C) C D) H
13. An example of breach of block rules is _____ (A)
   A) train dispatch/received from/on wrong line B) Fire on train
   C) Derailment D) Gate open
14. Accident siren 3 long indicates _____ (B)
   A) outstation main line is obstructed B) outstation main line clear
   C) Yard accident D) outstation main line clear and MRT Required
15. Accident siren when accident takes place at out station, main line obstructed and MRT required is (D)
   A) 2long B) 3long 1 short C) 3 long D) 4 long 1 short
16. The target time for turning out ART is ___ minutes by day and ___ minutes by night (A)
   A) 30 and 45 B) 45 and 30 C) 15 and20 D) 20 and15
17. The target time for turning out MRT is _____ minutes for direct/indirect dispatch (C )
   A) 30/45 B) 45/30 C) 15/20 D) 20/15
18. Mock drills for ART shall be conducted once in __ months (B)
   A) A Month B) 3 months C) 6 months D) A year
19. Rainfall above __cm in 24 hours is considered as dangerous for running trains (B)
   A) 2 B) 5 C) 8 D) 10
20. Heavy wind above ___kmph is considered dangerous for running trains (D)
   A) 25 B) 50 C) 60 D) 65
21. SCR is divided into ___zones for the purpose of weather warning (B)
   A) 5 B) 7 C) 6 D) 8
22. Whenever accident takes place, GLP has to prepare report in form no. ___respectively (D)
   A) Acc-1 B) Acc-9 C) Acc-12 C) Acc-3

23. The amount of compensation to be paid in case of death in railway accident is (A)
A) 4 lakhs B) 6 lakhs C) 3 lakhs D) 12 lakhs

24. The claim for compensation shall be made within __ from the date of accident through__ (B)
A) 6 months, CAT B) 1 year, RCT C) 6 MONTHS, RCT D) 1 YEAR, CAT

*****END*****

# ALCO LOCOMOTIVES

1. When emergency brake application is done through A-9 in flasher light modified loco the condition of loco will be (A)
   (A) Loco comes to idle and nothing else happens
   (B) Loco comes to idle, flasher light is on
   (C)Loco comes to idle, flasher light is on & buzzer blows
   (D) Loco does not come to idle, flasher light is on & buzzer blows
2. Unit of Air Flow Indicator (AFI) is (C)
   (A) Kg/cm$^2$ (B) Pound / inch (C) Wagon reading (D) Km/h
3. How many position setting of C3 W distributor valve has (A)
   (A) Two position setting (B) One position setting
   (C)Three position setting (D) No different setting
4. Air supply for horn is from.. (A)
   (A) MR-1 tank (B) MR-2 tank (C) J" filter (D) HS-4
5. Overcharging (In air brake system) feature is applied by which air brake valve (C)
   (A)C3 W distributor valve (B) VA-1B control valve
   (C)C2-W relay valve (D) VA-1 release valve
6. Above C2- relay diaphragm air pressure comes from (A)
   (A) A-9 valve (B) SA-9 valve (C) MR pressure (D) Synchronization on pressure
7. Duplex check valve operates when MR pressure reaches at pressure (kg/cm$^2$) (A)
   (A)5 kg/cm2 (B) 6kg/cm2 (C) Always open (D) 10 kg/cm$^2$
8. Max. Permissible time for loco brake release in seconds is. The loco fitted with chock in C2 relay valve. (C)
   (A) 50 sec (B) 40 sec (C) 24 sec (D) 30 sec
9. In automatic switching on flasher light modification of locos the TDR (time delay relay) is set at... (C)
   (A)40 sec (B) 15 sec (C) 60 sec (D) 120 sec
10. The standard Colour of humidity indicator in air dryer is (C)
    (A) Orange (B) Purple (C) Blue (D) White
11. Air dryer starts functioning, when MR pressure reaches to (PSI) (A)
    (A) 100 PSI (B) 200 PSI (C) 150 PSI (D) Immediately as loco start
12. Thread diameter of BP & FP angle cocks (in inch) is... (D)
    (A) 1" (B) 3" (C) 2" (D) 1¼ "
13. MR safety valve is set at pressure (in kg/cm$^2$) (C)
    (A) 10.0 kg/cm$^2$ (B) 6.0 kg/cm$^2$ (C) Above 10.5 kg/cm$^2$ (D) Below 6.0 kg/cm$^2$
14. When 7.5-mm dia hole palm end is fitted in BP pipe, the change in BP pressure is (C)
    (A) Should remain same in one minute
    (B) Should fall below 4.0 kg/cm$^2$ in one minute
    (C) Should not fall below 4.0 kg/cm$^2$ in one minute
    (D) Should come down to 3 cm in one minute
15. Auto drain valve blows during (B)
    (A) Loading of compressor (B) Unloading of compressor
    (C) When „MR safety valve blow (D) MR pressure is above 10.5 kg/cm2
16. Feed valve is charged from (A)
    (A) MR-1 tank (B) MR-2 tank (C) "J" filter (D) BP pipe
17. When driver is working from right control stand and A-9 is applied from left control stand in emergency position, what will happen? (A)
    (A) Loco will come to idle (B) Loco will not come to idle
    (C) Loco will shutdown (D) Only BP will drop and nothing else will happen
18. Additional C-2 relay valve is used in air brake system for (B)
    (A) MR pipe charging (B) BP pipe charging
    (C) Vacuum train pipe charging (D) Feed pipe charging
19. When does auto drain check valve operates (B)
    (A) At the time of loading of compressor (B) At the time of loading of compressor
    (C) In above both cases (D) When loading/unloading of compressor is defective
20. MR pressure outlet pipe of air flow measuring valve goes to (B)
    (A) C-2 relay valve (B) Ad(D) C-2 relay valve
    (C) A-9 brake valve (D) SA-9 brake valve

21. In case BP pressure is fluctuating the possible defect is in which valve (B)
(A) C-2 relay valve defective (B) Add C2 relay valve is defective
(C) SA-9 is defective (D) C3W distributor valve is defective

22. Exhaust choke size of C-2 relay valve is (in mm).... (A)
(A) 5.0 mm (B) 6.0 mm (C) 7.0 mm (D) 8.0 mm

23. Exhaust choke size of additional C-2 relay valve is (in mm)..... (C)
(A) 5.0 mm (B) 5.5 mm (C) 6.0 mm (D) 6.5 mm

24. Air supply to power contractor is from (A)
(A) MR-1 (B) MR-2 (C) BP pressure (D) FP Pressure

25. In lead position of MU2B valve which ports dose not connect with each other (C)
(A) 2&20 (B) 53&63 (C) 13&30 (D) 3&13

26. The governor of air compressor get supply from..... . (A)
(A) MR-1 pressure (B) MR-2 pressure (C) BP pressure (D) (B)(C) pressure

27. To operate sander valve the air supply is received from (A)
(A) MR-1 pressure (B) MR-2 pressure (C) BP pressure (D) (B)(C) pressure

28. During which stroke both valves closed (B)
(A) Suction (B) Compression (C) Power (D) Exhaust

29. How many cam shaft bushes are fitted in one 16 cylinder block (C)
(A) 14 (B) 16 (C) 18 (D) 20

30. How many teeth are in split gear (D)
(A) 28 (B) 30 (C) 34 (D) 36

31. During setting of cam gear timing which piston is kept atTDC (A)
(A) R-1 (B) L-1 (C) R-8 (D) L-8

32. In WDM-2c loco, how many counter weights are on one crankshaft? (C)
(A) 2 Nos. (B) 3 Nos. (C) 8 Nos. (D) 4 Nos.

33. Main crankshaft vibration damper is fitted near which main bearings (in WDM-2)locos (D)
(A) No-5 (B) No-7 (C) No-9 (D) No-1

34. In Alco loco, single exhaust manifolds have following no. of pieces (B)
(A) 6 (B) 7 (C) 8 (D) 5

35. Water pump is driven from..... . (C)
(A) Split gear (B) Cam gear (C) Extension shaft gear (D) Main generator gear

36.Lube oil pump is driven from..... . (C)
(A) Split gear (B) Cam gear (C)Extension shaft gear (D) Main generator gear

37.Universal shaft is used to drive radiator fan because (C)
(A) It is rigid (B) It is strong
(C) It is self again (D) It is weak

38.GE Governor is operated..... (B)
(A) Mechanically (B) Hydraulically
(C) Pneumatically (D) None of these

39. TSC surging on higher notches is due to ..... (D)
(A) Excess fuel rack (B) Chocked air maize
(C) Less area of nozzle ring (D) Any of the above

40. Hammering sound is coming from engine is due to ... ..... (D)
(A) Exhaust valve bend (B) Fuel cam worn out
(C) X-head roller worn out (D) Any of the above

40. Smoke is coming from „SMOKE" hole of cylinder Head indicates..... (A)
(A) Injector seal is not proper (B) Over torquing
(C) Injector crack (D) Injector not fitted

41. Engine air inlet elbow bolt torquing is done at ..... (D)
(A) 150 ft. lbs (B) 40 ft. lbs
(C) 30 ft. lbs (D) 75 ft. lbs

42. TSP treatment is done for..... (A)
(A) To remove scaling (B) To decrease the cooling efficiency
(C) To avoid any chemical reaction (D) To improve chloride value
(E)

44.When hot engine alarm is operated, the condition of loco comes to (B)
(A) Idle (B) Run on same speed
(C) Shut down (D) None of above

45.What is the unit of S.F.(C) (Specific Fuel consumption) (A)
(A) gm/hp/hr. (B) Liters/Kwhr/minutes
(C) Kg/Newton/hr (D) None

46.The temperature difference between the two consecutive main bearings should not exceed by (C)
(A) 5□C (B) 2□C
(C) 10□C (D) 20□C

47.CCE motor giving thick black smoke is due to (A)
(A) Increase liner wear (B) Valve guide clearance more
(C) TSC rotor defective (D) Fuel motor defective

48.Fuel test cock pressure is used for checking ..... (C)
(A) Lube oil pressure dropping (B) Booster pressure dropping
(C) Fuel pressure dropping (D) Air pressure dropping

49.Exhaust gas temperature at ABB TSC inlet is ..... (C)
(A) 700□C (B) 600□C
(C) 450□C (D) 750□C

50.Exhaust gas temperature at ALCO TSC inlet is ..... (B)
(A) 300□C (B) 590□C
(C) 400□C (D) 800□C

51.Which of the following is the reason of hot engine (D)
(A) ETS setting defective (B) Radiator fan not working
(C) Radiator fins chocked (D) Any of above

52.Engine giving blueish smoke indicates..... . (C)
(A) Water mix in fuel oil (B) Injector hole chocked partially
(C) Cylinder head valve guide clearance more (D) FIP delivery less

53.White smoke given by engine is due to ..... (C)
(A) FIP not responding (B) Tappet phasing disturbs
(C) Cylinder head crack internally (D) X-head having abnormal sound

54.For the same HP and bore size, which engine will be heavier (B)
(A) Petrol engine (B) Diesel engine
(C) Jet engine (D) None of the above

55. Reverser Contactor used on diesel loco is ..... (A)
(A) To change the direction of field (B) To use the Dynamic braking
(C) To pass the power supply to T/Motors (D) None of the above

56. Minimum RPM of engine with low idle feature is (C)
(A) 390 (B) 410
(C) 350 (D) 370

57.Which of the following is not the safety item of locomotive (C)
(A) OST (B) LWS
(C) Governor (D) ACP

58. BAP is not building up due to ..... (D)
(A) TSC rotor jam (B) Gov. defective
(C) Air Intel gasket burst (D) Any one of above

59. Which of the following is not the reason of low BAP (D)
(A) Unmodified FIP (B) Unmodified after cooler
(C) Radiators fins chocked (D) None of these

60. Which of the following is not item of fuel efficient loco (C)
(A) Steel cap piston (B) Modified FIP
(C) ALCO TSC (D) Large After Cooler

61.Which of the following statement is not true (D)
(A) Comp. Ratio in diesel engine is more then Petrol engine.
(B) For high HP diesel engine are use(D)
(C) Ignition in diesel engines takes place by comp. of air.
(D) For the same HP diesel Engine are lighter as compare to Petrol engine.

62.What are the possible causes of injector not responding (D)
(A) Injector nozzle hole chocked (B) Phasing on up position
(C) Fuel cam lob damage (D) Any of the above
63.What is the delivery of unmodified FIP on test bench at full rack position (B )
(A) 400 CC (B) 350 CC
(C) 425CC (D) 500 CC
64.Which of the following is prime mover (A)
(A) Engine (B) Traction Generator
(C) Traction Motor (D) None of the above
65.High viscosity indicates (C)
(A) Mixing of water in lube oil (B) Mixing of fuel in lube oil
(C) Mixing of carbon contents (D) None of these
66.What is the cause of increase silicon in lube oil (C)
(A) Linear wear (B) X-head wear
(C) Dust (D) Water leakage
67.Cyl. Head hydraulic testing is done at (A)
(A) 5.0 $kg/cm^2$ (B) 10.0 $kg/cm^2$
(C) 7.5 $kg/cm^2$ (D) 2.5 $kg/cm^2$
68.In scavenging period burnt gases are pushed out by (A)
(A) Fresh air (B) By burnt gases
(C) By TSC (D) Nothing of these
69. During over lapping period inlet and exhaust valve remain in (B)
(A) Closed position (B) Open position
(C) Open & close position (D) Nothing of these
70.Engine hunting is due to (A)
(A) Rake movement not free (B) Excess fuel pressure
(C) Low fuel pressure (D) Nothing of these
71.Low phasing means (A)
(A) After burning of fuel (B) Correct burning of fuel
(C) Without burning of fuel (D) Nothing of these
72.Engine given thick black smoke due to (A)
(A) Low BAP (B) Less fuel oil level
(C) Defective CCE motor (D) Defective manifold
74.In fuel injection pump (FIP) meaning of "No Fuel Position " is (A)
(A) Helix of plunger is to be in front of spill port (B) Helix of plunger is to be separated from split port
(C) Either or above (D) None of these
75.Out of which safety device, engine comes to idle (C)
(A) OST (B) LWS
(C) ACP (D) Low lube oil indication
76. ECC (Eddy current clutch), clutching of inner and outer drum is through (C)
(A) Mech. Clutch (B) Electrical clutch
(C) Magnetic clutch (D) By pulley arrangement
77. ETS-2 is set at temp. Degree centigrade (B)
(A) 64 $^0C$ (B) 68 $^0C$
(C) 90 $^0C$ (D) 86 $^0C$
78. Total numbers of carbon brushes used in BKBL/Grid blower motors are (C)
(A) 12 (B) 24
(C) 8 (D) 6
79. Tacho-generator have total numbers of magnetic poles (C)
(A) 4 (B) 2
(C) 6 (D) 8
80. Total numbers of interlopes fitted in Traction Generator GE type are (C)
(A) 10 (B) 6
(C) 12 (D) 8
81 Tacho generator output voltage is … (C)
(A) A/C single phase (B) DC
(C) A/C three phase (D) Pulsating DC
(E)

82. Which solenoids are operate on idle condition in WW Gov. (D)
(A) A Solenoid (B) B Solenoid
(C) A Solenoid (D) None
83. Which solenoid operated when LWS worked in WW Gov. is (C)
(A) C Solenoid (B) B Solenoid
(C) D Solenoid (D) None
84.Low lube oil shut down pressure setting in WW governor fitted locomotive. (B)
(A) 2.0 Kg/cm$^2$ (B) 1.3 Kg/cm$^2$
(C) 2.5 Kg/cm$^2$ (D) 3.0 Kg/cm$^2$
85.On 3$^{rd}$ notch solenoid operated in WW governor (C)
(A) D Solenoid (B) A Solenoid
(C) C Solenoid (D) A-C Solenoids
86.In WW Governor which solenoid operated on operation of Low Lube oil plunger. (D)
(A) C Solenoid (B) CD Solenoids
(C) AD Solenoids (D) None
87.Current rating of MB2 circuit breaker in $WDM_2$, DC/DC loco is (D)
(A) 100 Amp (B) 250 Amp
(C) 200 Amp (D) 150 Amp
88. The higher temp. of the electrolyte in the battery caused life of battery to.. (C)
(A) Increased (B) No effect on life of battery
(C) Decreased (D) Excess temp. is must for good life
89. Blowing air pressure in TG/TA is recommended between… (B)
(A) 0.2 Kg/cm$^2$ (B) 2 to 4 Kg/cm$^2$
(C) 8 to 10Kg/cm$^2$ (D) Pressure of the blowing air is not specified
90. The function of slip rings in Traction Alternator is (B)
(A) Work as commutator (B) Work as a current collector
(C) Work for balancing of Tr. Alt. rotor (D) None of the above
91. The full form of SAR is a (C)
(A) Speed adjusting relay (B) Speed adjusting resistance
(C) Safety auxiliary relay (D) None of the above
92. Generator field cover load relay operating current limit is.. (C)
(A) 50 Amp (B) 100 Amp
(C) 280 Amp (D) 400 Amp
93. Which safety device is provided for diesel engine (C)
(A) Cattle Guard (B) Heat light
(C) LWS (D) F/Light
94. The function of Field Control Penal in diesel Electric locomotive is. (C)
(A) To control the head light voltage (B) To control the battery charging voltage
(C) To control the exciter field voltage (D) To control the Techo Generator voltage
95. Total nos. of capacitors used in power rectifier panel ofAC/DC locos are…… (A)
(A) 06 (B) 08
(C) 12 (D) 04
96. In AC/DC loco time delay relay (TDR) is provided for time delay of (C)
(A) 4 seconds (B) 8 seconds
(C) 1.8 seconds (D) 12 seconds
97. The generator used on $WDM_2$ diesel locomotive is …… (B)
(A) Shunt Generator (B) Separately excited generator
(C) Compound generator (D) None of the above

98. The lubrication of roller bearings in Traction Alternator/ Traction Generator is done by (C)
(A) Through greasing externally (B) No lubrication is required
(C) Through gear of Aux. Gen. Exciter & idler gear (D) Once lubrication done during overhauling is sufficient

99. Which relay has lowest value of coil resistance…….. (B)
(A) ERR (B) GR
(C) ERR (D) ESR-1

100. GFLOR relay is provided in AC/DC locos for safety of (A)
(A) Phase to Phase shorting of Tr. Alt. (B) Flash over between GF contacts
(C) Earthing of Tr. Alternator (D) GF Contactor

101. If SAR relay is not energized what will happen (A)
(A) Engine will over speed (B) Engine will start
(C) Engine will start normally but GF will not P/up (D) Engine will start normally but could not be notched up

102. OST RPM is adjusted by which SAR of ECP (C)
(A) SAR (B) 1
(C) SAR (D) 2

103. Welding of FS contactor tips will give the indication of (C)
(A) Ground relay operating (B) EP contactor fluctuating
(C) Wheel slip on Ist notch onwards (D) GF not picking up

104. If the reference voltage is more than 24.4 volts, the defects in (A)
(A) LCP (B) SP
(C) GCR (D) Pilot valve

105. In MU operation both the loco can be shut down through… (C)
(A) Stop Button (B) OST
(C) MUSD (D) Lube oil plunger

106. The combination of Tr. Motors across WSR-1 in parallel is (A)
(A) 1 (B) 5
(C) 2 (D) 4

107. The combination of Tr. Motors across WSR-3 in parallel is (D)
(A) 3 (B) 6
(C) 2 (D) 5

108. The gap between ECC slip rings & brush holder is to be kept (C)
(A) 5mm (B) 8mm
(C) 2mm (D) 15mm

109. Reverser Contactor used on diesel loco is …… (A)
(A) To change the direction of field (B) To use the Dynamic braking
(C) To pass the power supply to T/Motors (D) None of the above

110. What is the minimum Head light Focusing distance required in the locomotives provided with electrical headlight? (D)
(A) 100 meters (B) 1000 meters
(C) 2000 meters (D) 250 meters andAbove

111 . When OPS drops or LLOB trips, the engine will_____. (B)
(A) Raise (B) Shutdown
(C) Comes to Idle (D) Hunting

112 . Expressor lube oil pump is driven by_____ (B)
(A) Gear (B) Chain
(C) Motor (D) Belt

113 one of the following is the equipment in Nose Compartment (C)
(A) MR1 (B) MR2
(C) Control air pressure Reservoir (D) All the above

114. What is the effective Rundown test timing (in seconds) of NAPIER Turbo? In seconds (C )
(A) 120 to 200 (B) 90 to 180
(D) 200 to 280
(C) 25 to 65

115 If SAR coil is open circuited during cranking (C)

(A) GR trips (B) nothing willHappen

(C) OSTA trips (D) Throttle will not respond

116 If CK1 bridge interlock defect .....trouble. (A)

(A) not cranking (B) not holding

(C) ck1/ck2 fluttering (D) not firing

117 In WDM2 GE governor loco, when stop switch is presse(D)...will be energize(D)(C)

(A) ESR4 (B) Clutch coil

(C) stabilising coil (D) SAR coil

118 On WDM2 if engine not cranking.....powercontactor NCI to be checke(D)(A)

(A) P22/S1 (B) P21/S1

(C) P22/S21 (D) P22/S31

119 TDR in WDM3a (cranking circuit) is set at (B)

(A) 1.5 minutes (B) 1.5seconds

(C) 2seconds (D) 1second

120 During cranking if engine not holding may be due to (D)

(A) CK1 bridge interlock (B) MUSD

(C) FPB (D) OPS

121 FS21 and FS22 coils get supply through these breaker (B)

(A) FPB (B) MFPB

(C) CCEB (D) MCB

122. While working on higher notches with full load if (B)(A)P is repeatedly dropping and Raising is called (C)

(A) Sneezing (B) Hunting

(C) Surging (D) None

123. In WDM2 GE governor loco, when stop switch is pressed ------- will be energized (C)

(A) ESR4 (B) Clutch coil

(C) Stablising COIL (D) SAR coil.

124. On WDM2 if engine not cranking ---------- power contactor NCI to be checke(D) (A)

(A) P22/S1 (B) P21/S1

(C) P22/S21 (D) P22/S31

125. TDR in WDM3A (cranking circuit) is set at . (B)

(A) 1.5 minutes (B) 1.5 seconds

(C) 2 seconds (D) 1 second

126. During cranking if engine not holding may be due to . (D)

(A) CK1bridgeinterlock (B) MUSD

(C) FPB (D) OPS

127. FS21 and FS22 coils get supply through these breaker. (B)

(A) FPB (B) MFPB

(C) CCEB (D) MCB

128. Stabilising and clutch coil get supply through these brakers. (D)

(A) FPB (B) CCEB

(C) MCB (D) MFPB

129. ECC coil get supply through braker. (A)

(A) FPB (B) CCEB

(C) MCB (D) MFPB

130. For 10 minutes time gained by loco ------- ltrs of fuel is allowe(D). (C)

(A) 25 (B) 35

(C) 50 (D) 60

131. In fuel oil system -------- type of filters are use(D) (D)

(A) Socks type (B) Foam type

(C) Mesh type (D) Paper type

132. Now a days the following item is remove on WDM2. (B)

(A) Transition switch (B) Lube oil by pass

(C) VCD system (D) Vacuum brake

133. While on run if SPM drops to zero and transition also drops it may be due to (D)
(A) Emergency brake (B) ACP
(C) Defect in mother card (D) ADA dropped/defective

134. When wheel is floated speed is restricted ---- kmph (B)
(A) 25 (B) 30
(C) 35 (D) 40

135. WDM2 expressor is having ---------- couplings. (A)
(A) Fast and flexible (B) CBC and Baby
(C) ABC and fast (D) Universal and flexible

136. Excess Brake cylinder pressure can cause (C)
(A) Quick speed drop (B) Train brakes not required
(C) Wheel skidding (D) Dynamic brake not necessary

137. Is SAR coil open circuited during (A)
(A) GR trips (B) Nothing will happen
(C) OSTA trips (D) Throttle will not respond

138. If CK1 bridge interlock defect------ trouble (A)
(A) Not cranking (B) Not holding
(C) Ck1/ck2 fluttering (D) Not firing

139. If batteries are weak during cranking can be identified by (A)
(A) Battery ammeter (B) Fluttering of CK1, CK2
(C) Starting lamp (D) Smoke from batteries

140. GFC not picking up in motoring due to (A)
(A) Ck1 welded (B) ECS run
(C) Rev. at motoring (D) Throttle notch 1

141. LWS is connected to (B)
(A) Water left side return header (B) Water expansion tank
(C) Water right side return header (D) All the above

142. Main reservoir (compressed air pressure) unloading will takes place at ---- kg/cm2. (C)
(A) 8 (B) 9
(C) 10 (D) 11

143. N1 reducing valve is located in (C)
(A) Radiator room (B) Expressor room
(C) Nose compartment (D) Rear

144. If the VRR fuse is fused, the ------ indication will come. (D)
(A) CK1 and CK2 contactor (B) Battery over charging
(C) Green lamp and engine idle (D) Battery discharge

145. N1 reducing valve is located in (C)
(A) Radiator room (B) Expressor room
(C) Nose compartment (D) Rear

146. From where the control air pressure will get air pressure ---------- (B)
(A) MR2 (B) MR1
(C) BKTs (D) J filter

147. Water leaking continuously form water telltale pipe (B)
(A) Dummy it and work further (B) Fail the loco
(C) Do fast pumping (D) Work on lower notches

148. Cooling water capacity in WDM2 Locomotive is ----- liters. (D)
(A) 900 (B) 910
(C) 1300 (D) 1210

149. During one of the following occasions Hot engine alarm indication will get. (C)
(A) Continuous 8 th notch (B) Excess load
(C) Water pump not working (D) Full water in expansion tank

150. The rundown test of NAPIER turbo is to be conducted on ------- notch. (A)
(A) Idle (B) 4
(C) 6 (D) 2

151. Lube oil filter drum is located in (D)
(A) Nose compartment (B) Generator room
(C) Engine block (D) Radiator room

152. How many kinds of brakes are provided on diesel locomotive WDM2 (A)
(A) 5 (B) 10
(C) 11 (D) 9

153. GFC not picking up in motoring due to . (A)
(A) CK1 WELDED (B) ECS RUN
(C) REV. at motoring (D) Throttle notch 1

154. Main reservoir ( compressed air pressure) unloading will takes place at --- kg/cm2 (C)
(A) 8 (B) 9
(C) 10 (D) 11

155. The VRR fuse is fused, the ---------- indication will come. (C)
(A) CK1 and ck2 contactor tips welded (B) Battery over charging
(C) Green lamp and engine idele (D) Battery discharge

157. In MU operation both the loco can be shut down through… (C)
(A) Stop Button (B) OST
(C) MUSD (D) Lube oil plunger

158. The combination of Tr. Motors across WSR-1 in parallel is (A)
(A) 1 (B) 5
(C) 2 (D) 4

159. DMR picking up in idle but dropping on opening throttle mean (C)
(A) Week DMR (B) DMR all interlocks defective
(C) Self interlocks defective (D) Out

160. The function of slip rings in Traction Alternator is (B)
(A)Work as commutator (B)Work as a current collector
(C)Work for balancing of Tr. Alt. rotor (D)None of the above

161. If battery ammeter shows discharging, what should be checked on front panel (A)
(A) AGFB Breaker (B)MB1
(C)Battery knife switch (D)G.F.Switch

162. If engine is cranking but not firing with indication what may be the reason (A)
(A)LWS Operated (B)OSTA TRIPPED
(C)SAR Defective (D) All the above

163. If (B)A shows over charging due to defective battery, the following action to be taken (A)
A) (B)S to be taken B) shut down the engine
C) Engine to be brought to Idle D) No action required

164. If engine is not cranking which contactors are to be checked (D)
A .FPC Contactor (B)BK1 contactor
(C)CK2 contactor (D)All the above

165. What happens if amphenol plug slack on run on GE governor loco's (A)
(A) Engine shut down (B)Engine Idle
(C)Load meter not responding (D)no problem

166. In micro propulsion system for engine cranking which item to be used(GE) (B)
(A)start button (B)Engine starting switch
(C)Engine control switcg (D)None of the above

167. In Ac/DC loco's engine is cranked by (B)
A .Main generator (B)Auxiliary& Exciter Generator
(C)Auxilitary Generator (D)Exciterganerator

168. If engine is not cranking which power contactor interlocks are to be checked (A)
(A)P22,S1 (B)P22,S2 (C)P22, S1 (D)P1,S1

169.What Is the reason if engine shutdown with out any indication on run in GE governor (A)
(A)Tacho Generator failure (B)LWS
(C)OPS (D)LLOB

170 .What is the effect of GR tripping (D)

(A)load meter ZERO (B)Engine comes to idle
(C)GR indication with bell (D)All the above

171.If engine shutdown with hot engine alarm which safety device operates (B)
(A)ETS (B)LWS
(C)SAR (D)OPS

172.What happens if Amphenol plug slack on run on GE Gov. locos (A)
(A)Engine shut down (B)Engine idle
(C)Load meter not responding (D)no problem

173.If engine is running with HOT engine alarm which safety device is operated (A)
(A)ETS (B)LWS
(C)SAR (D)OPS

174. What is the effect of WSR (D)
(A)LM gradually drops to ZERO (B)sanders operate
(C)wheel slip indication with buzzer (D)all the above

175.if head light fails what is the action to be taken by the driver (B)
(A) fail the loco (B)Follow G&SR rule
(C)work with classification lights (D)work normally

176. what may be the reason for throttle is not responding (D)
(A)DMR De-energised (B)GR TRIPPING
(C)GFOLR Tripping (D)All the above

177. Which breaker is to be checked if engine shutdown on RUN (C)
(A)MB1 (B)MCB & MCB2
(C)FPB Tripped (D)All the above

178.what happens if Amphenol plug is slack on GE governor loco (B)
(A) Not cranking (B)Not firing
(C)Not holding (D)No problem

179. In AC/DC Locos during cranking which relay protects Auxiliary and Exciter generator (C)
(A)SAR (B)GR
(C)TDR (D)WSR

180. If BKT or Reverser is not operating properly what is the action to be taken (B)
(A) Fail the loco (B)Operate Manually with L rod
(C)shutdown engine (D)engine idle

181. what is the reason if engine shutdown automatically on RUN (D)
(A)MB2 TRIPPED (B)MFPB1 &MFPB2 Tripped
(C)FPB Tripped (D)All the above

182. what is the effect if OPS is in stuck up in pickup condition while starting (B)
(A) Engine not cranking (B)Engine cranking but not firing
(C)Engine cranking, firing but not holding (D)All the above

183. To get quick charging of BP which should be operated (B)
(A) SW1 & SW2 (B)SP1 & SP2
(C)MCB1 & MCB2 (D)MFPB1 & MFPB2

184.What is the purpose of VRP (C)
(A) To safe guard battery (B)To safe guard control circuit
(C)To maintain 72V irrespective of engine speed (D)To safe guard loco pilot

185. In medha micro propulsion locos for isolating TM which item to be used (A)
(A) Toggle switch (B)spring loaded toggle switch
(C)Breaker (D)All the above

186. In place of AC governor, which governor is provided for compressor loading and unloading (A)
(A) EPG (B)GE
(C)W.W (D)Run release

187. If OSTA is tripping condition while starting problem will be (B)
(A) Engine not cranking (B)Engine not firing
(C)Engine not holding (D)No problem

188. The purpose of 28 VB valve is for application of (C)

(A) Loco brakes B .formation brakes
(C) conjunctional brakes (D)All the above

189. During A9 emergency BP becomes (C)
(A) 3.5 kg/cm2 (B)2.5kg/cm2
(C)1.8kg/cm2 (D)None of the above

190. Due to train parting , if BP drops below 4.4kg/cm2 which pressure switch operates (B)
(A) P1 (B)P2
(C)P1+P2 (D)None of the above

191. CAM gears are lubricated by, which headers (A)
(A) auxiliary header (B) cylinder header
(C)Water header (D)None Of the above

192. IF Fuel oil contaminated with lube oil, viscosity will be (B)
(A) more (B)less
(C)Nothing will happen (D)None of the above

193. The purpose of water pump tell tale pipe is to know the condition of (C)
(A) oil seal (B)water seal
(C)oil seal/ water seal (D)None of the above

194. What is the purpose of GFOLR in AC/DC locomotives (C)
(A) to protect main generator field
(B)To protect Rectifier panel
(C)To protect main generator field and rectifier panel
(D)To protect auxiliary generator

194. What is the purpose of GFOLR in AC/DC LOCOMOTIVES? (C)
(A) to protect main generator field
(B)To protect Rectifier panel
(C)To protect main generator field and rectifier panel
(D)To protect auxiliary generator

195. Improper control air pressure leads to (D)
(A) power contactors fluttering (B)Flash overs
(C)Power ground (D)all the above

196. What is the purpose of GFOLR in AC/DC locomotives (C)
(A) to protect main generator field
(B)To protect Rectifier panel
(C)To protect main generator field and rectifier panel
(D)To protect auxiliary generator

197. TRD timing for 350C model Turbo (B)
(A) 60-120seconds (B)90-180 seconds
(C)180-220 seconds (D)None of the above

198. Dis colourization of lube oil to gray brown or milky colour is evidence of (A)
(A) Water mixed with lube oil (B)fuel oil mixed with lube oil
(C)Less lube oil in the sump (D)all the above

199. How many times resetting of GR & GFOLR will be done (A)
(A) 3 (B)6
(C)work on lower notches (D)work up to destination

200. How do you adjust control air pressure (C )
(A) A9 Feed valve (B)SA9 feed valve
(C)N1 reducing valve (D)Hs4 valve.

*****END*****

# HHP LOCOMOTIVES

1. What is the Horse power of $WDP_4$ D & $WDP_4$ B locomotives
   A. 3000 HP B. 3500 HP
   C. 4000 HP D. 4500 HP
2. What is the compression ratio of $WDP_4$ D & $WDP_4$ B locomotives
   A. 16:1 B. 14:1
   C. 13:1 D. 15:1
3. Which type of diesel engine is fitted in HHP locomotive
   A. Four stroke B. Three stroke
   C. One stroke D. Two stroke
4. TM pinion and bull gear ratio in $WDP_4$ D & $WDP_4$ B loco is
   A. 17:90 B. 17:77
   C. 65:18 D. 90:35
5. Maximum speed of $WDP_4$ D & $WDP_4$ B locomotive is
   A. 130 Kmph B. 160 Kmph
   C. 150 Kmph D. 180 Kmph
6. What is the fuel tank capacity in $WDP_4$ D & $WDP_4$ B locomotive
   A. 5000 Litter B. 6000 Litter
   C. 4000 Litter D. None of these
7. Transmission in $WDP_4$ D & $WDP_4$ B locomotive is
   A. AC - DC B. AC - AC
   C. DC - DC D. DC - AC
8. Total weight of $WDP_4$ D loco is
   A. 115.8 Tones B. 119.8 Tones
   C. 121.8 Tones D. 123.0 Tones
9. Total weight of $WDP_4$ B loco is
   A. 115.8 Tones B. 119.8 Tones
   C. 121.2 Tones D. 123.0 Tones
10. What is the maximum speed of the WDG $_4$ locomotive
    A. 150 Kmph B. 140 Kmph
    C. 120 Kmph D. 100 Kmph
11. What is the fuel tank capacity of WDG4 Locomotive
    A. 5000 Liters B. 6000 Liters
    C. 4000 Liters D. 7000 Liters
12. Length of WDG4/WDP4B loco over buffer is
    A. 19964 mm B. 23000mm
    C. 20000mm D. 21000mm
13. Length of WDP4D loco over buffer is
    A. 19964 mm B. 23000mm
    C. 20000mm D. 21000mm
14. Maximum Tractive effort of WDG4 loco is
    A. 41 Tones B. 53Tones
    C. 50 Tones D. 123.0 Tones
15. Maximum Tractive effort of WDP4B/WDP4D loco is
    A. 41 Tones B. 53Tones
    C. 50 Tones D. 123.0 Tones
16. Which type of diesel engine model is fitted in HHP locomotive
    A. ALCO-251 B. GT46
    C. 710 G3B D. GT 46MAC
17. How many cylinders are used in HHP Loco Engine
    A. 16 Nos B. 08 Nos
    C. 12 Nos D. 14 Nos
18. Which type of Traction Motors fitted in HHP LOCO?
    A. 3-Phase AC Motors B. DC Séries Motors
    C. Both A & B D. None of these
19. Which type of Main Generator fitted in HHP LOCO?
    A. DC Generator B. 3 phase Alternator
    C. Both A & B D. None of these

20. Main role of Traction Inverters in HHP LOCO?
    A. To control 3-Phase AC Induction Motors  B. To control 3 phase Alternator
    C. Both A & B  D. None of these
21. Traction Inverters converts in HHP Loco?
    A. DC power into 3 Ph AC power for variable frequency  B. AC power into 3Ph AC power
    C. Both A & B  D. None of thèse
22. How much Traction Inverters in HHP LOCO (**In Medha make Traction System**)
    A. 6  B. 5
    C. 4  D. 3
23. How much Traction Inverters in HHP LOCO (**In EMD make Traction System**)
    A. 6  B. 2
    C. 4  D. 3
24. How much Traction Inverters in HHP LOCO (**In SIEMENS make Traction System**)
    A. 6  B. 2
    C. 4  D. 3
25. In HHP Loco LCC, Traction Computer, DCL in house of (**In EMD make Traction System:**).
    A. ECC1  B. ECC2
    C. TCC  D. ECC3
26. In HHP Loco LCC, Traction Computer, DCL in house of (**In SIEMENS make Traction System)**
    A. ECC1  B. ECC2
    C. TCC  D. ECC3
27. In HHP Loco , Traction Computer, DCL in house of **(In Medha make Traction System:).**
    A.ECC1  B. ECC2
    C. TCC  D. ECC3
28. In HHP Loco, LCC in house of ( **In Medha make Traction System:**).
    A. ECC1  B. ECC2
    C. TCC  D. ECC3
29. How much phase module in HHP Loco (**In Medha make Traction System**)
    A. 18  B. 6
    C. 12  D. None of these
30. How much phase module in HHP Loco (**In EMD make Traction System**)
    A. 18  B. 6
    C. 12  D. None of these
31. How much phase module in HHP Loco (**In Siemens make Traction System**)
    A. 18  B. 6
    C. 12  D. None of these
32. Which type of **IGBT Device** used in HHP loco (**In Medha make Traction System**)
    A. ABB make,V =6.5 KV, I=600Amps. 2 devices/phase module  B. Siemens make, V =6.5 KV, I=600Amps. 6 devices
    C. Mitsubishi make, V =4.5 KV, I=1200Amps, 4 devices /phase module  D. None of these
33. Which type of **IGBT Device** used in HHP loco (**In SIEMENS make Traction System**)
    A. ABB make,V =6.5 KV, I=600Amps. 2 devices/phase module  B. Siemens make, V =6.5 KV, I=600Amps. 6 devices
    C. Mitsubishi make, V =4.5 KV, I=1200Amps, 4 devices /phase module  D. None of these
34. Which type of **IGBT Device** used in HHP loco (**In EMD make Traction System)**
    A. ABB make,V =6.5 KV, I=600Amps. 2 devices/phase module  B. Siemens make, V =6.5 KV, I=600Amps. 6 devices
    C. Mitsubishi make, V =4.5 KV, I=1200Amps, 4 devices /phase module  D. None of these

35. Input voltage & current of TCC is.
    A. 620 -2600 V DC, max 1200 A DC  B. 0 V AC--- 2000 V, max 1100 A AC
    C. 520 -2600 V DC, max 1100 A DC  D. None of these

36. Output voltage & current of TCC is.
    A. 620 -2600 V DC, max 1200 A DC  B. 0 V AC- 2000 V, max 1100 A AC
    C. 520 -2600 V DC, max 1100 A DC  D. None of these

37. Weight of TCC is.
    A. 2400Kg
    B. 2000Kg
    C. 1500Kg
    D. None of these

38. Outer Dimension (lxbxh) of TCC is.
    A. 1833x2140x1450mm
    B. 1530x2140x1450mm
    C. 2133x2140x1450mm
    D. None of these

39. Current rating of **COMPUTER CONTROL, AC CONTROL, AIR DRYER,** Circuit breaker in HHP loco is
    A. 10 Amp
    B. 15 Amp
    C. 20 Amp
    D. 25 Amp

40. Current rating of **FUEL PUMP, TURBO, LIGHT, GOV. BOOSTER PUMP, LOCAL CONTROL, TCC BLOWER, FILTER BLOWER** circuit breaker in HHP loco is
    A. 30 Amp
    B. 15 Amp
    C. 20 Amp
    D. 25 Amp

41. Current rating of **Head Light** circuit breaker in HHP loco is
    A. 10 Amp
    B. 15 Amp
    C. 20 Amp
    D. 35 Amp

42. Current rating of **CONTROL** circuit breaker in HHP loco is
    A. 40 Amp
    B. 50 Amp
    C. 90 Amp
    D. 35 Amp

43. Current rating of **GEN FIELD** circuit breaker in HHP loco is
    A. 40 Amp
    B. 50 Amp
    C. 90 Amp
    D. 35 Amp

44. Current rating of **TCC1 Computer, TCC2 Computer, AUX.GEN FEEDBACK, AUX.GEN FIELD** circuit breaker in HHP loco is
    A. 10 Amp
    B. 20 Amp
    C. 30 Amp
    D. 35 Amp

45. Current rating of **TCC1-TCC2 BLOWER** circuit breaker in HHP loco is
    A. 10 Amp
    B. 50 Amp
    C. 30 Amp
    D. 35 Amp

46. Current rating of **DCLControl, EVENT RECORDER** circuit breaker in HHP loco is
    A. 03 Amp
    B. 5 Amp
    C. 10 Amp
    D. 15 Amp

47. How much DC LINK switch gears in HHP LOCO?
    A. 6
    B. 5
    C. 4
    D. 3

48. Traction Control Cabinet (TCC) consists of
    A. Six Traction Computers, 6 DCL switch gears
    B. 6 IGBT based Inverters, DC link Capacitors and Crow bar circuit
    C. Both A & B
    D. None of thèse

49. TCC converts during dynamic brake. In HHP Loco?
    A. DC power into 3 phase AC power
    B. 3 phase AC power into DC power
    C. Both A & B
    D. None of thèse

50. In HHP Locos ECC-2 are located in
    A. Driver cabin
    B. Under Truck
    C. Near Radiator room
    D. None of thèse

51. In HHP Locos STA & ST Contactors are located in
    A. ECC
    B. 1
    C. ECC
    D. 2

52. In HHP Locos AGAI &AGAV Sensors are located in
    A. ECC
    B. 1
    C. ECC
    D. 2

53. In HHP Locos Battery charger & Aux Gen CB are located in
    A. ECC
    B. 1

C. ECC D. 2

54. WDP4D Locos, ECC2 same as
A. WDP4 B. WDG4
C. WDP4B D. All of above

55. In WDP4/WDP4B Locos ECC-1 are located in
A. Driver cabin B. Near Radiator room
C. Under Truck D. None of thèse

56. In WDP4/WDP4B Locos ECC-3 are located in
A. Driver cabin B. Near Radiator room
C. Under Truck D. None of these

57. ……type of speedometer is available onWDG4.
A. Mechanical B. Electrical
C. Radar sensor D. Electronic

58. How many Power Contactors are available in WDG4 Locomotive?
A.8 B.9
C.0 D.6

59. In WDG4 loco compressor is cooled by
A. Nature B. Air
C. Oil D. Water

60. In WDG4 turbo is cooled by
A. Nature B. Air
C. Oil D. Water

61. In WDG4 power contactors are replaced with
A. FS contactor B. only relays
C. BKT/REV D. DC Link

62. In WDG4 when driver fails to acknowledge the alerter it gives audio warning for ….sec.
A. 10 B. 17
C. 25 D. 8

63. For quick charging of BP in WDG4……is used.
A. Foot pedal B. A9 release
C. SP1/SP2 D. None of these

64. In WDG4 hot oil detector is set at….degrees centigrade
A.126 B. 100
C.150 D .200

65. Blended brake is mixture of
A. Vacuum +Air B. Dynamic +Loco
C. Formation +Dynamic+ loco D. Formation +Loco

66. In WDP4 when the loco is moving in opposite direction to the reverser position will happen soon the speed increases to 5 kmph
A. Dynamic brake come into action B. alerter will come into function
C. power ground will take place D. Loco will shutdown

67. The only loco provided with two dipstick gauges to measure lube oil is
A. WDM2 B. WDP4
C. WDG4 D. WDG3A

68. WDG4 engine cylinders are cooled by
A. Water B. oil and water
C. super charged air and water D. air conditioning

69. What is the lube oil SUMP capacity of WDP4 loco?
A. 1073 Liters B. 1100 Liters
C. 950 Liters D. 910 Liters

70. What is the full speed RPM of the HHP locomotive engine
A. 1000 RPM B. 904 RPM
C. 900 RPM D. 950 RPM

71. What is the IDLE speed RPM of the HHP locomotive engine
A. 300 RPM B. 200 RPM
C. 269 RPM D. 904 RPM

72. What is the low IDLE speed RPM of the HHP locomotive engine
A. 300 RPM B. 200 RPM

C. 269 RPM D. 904 RPM

73. What is the lube oil SUMP capacity of WDG4 loco?
A. 1000 Liters B. 1100 Liters
C. 1457 Liters D. 910 Liters
74. What is the coolent water capacity in the HHP locomotive
A. 1200 Liters B. 1100 Liters
C. 1045 Liters D. 1145 Liters
75. Capacity of sand box in the WDG 4 locomotive
A.1 Ft3/ box B. 2 Ft3/ box
C.1.5 Ft3/ box D.3 Ft3/ box
76. Capacity of sand box in the WDP 4 locomotive
A. 1.5 Ft3/ box B. 02 Ft3/ box
C. 01 Ft3/ box D. 3 Ft3/ box
77. What is the minimum continues speed of the WDG4 locomotive
A. 21.5 Kmph B. 22.5 Kmph
C. 20.5 Kmph D. 23.5 Kmph
78. Which type of bogie fitted in the HHP locomotive
A. Single suspension B. Double suspension
C. Triple suspension D. None of these
79. In the fuel oil system which type of injectors provided in HHP locomotive
A. Unit injectors B. Injectors with HP line
C. Injector with cam D. None of these
80. In the two stroke engine the cylinder head of the engine equipped with
A. Inlet & Exhaust valves B. Only Inlet valves
C. Only Exhaust valves D. None of these
81. In the HHP locomotive the Turbo charger is driven by
A. Exhaust Gas B. Gear Train
C. Gear Train & Exhaust gas D. None of these
82. In the WDP 4 & WDG4 locomotive engine how many lube oil pumps used
A. One B. Two
C. Three D. Four
83. In the HHP locomotive, the air compressor is.....
A. Air cooled B. Water cooled
C. Oil cooled D. None of these
84. In the WDP 4 & WDG 4 locomotive the coolant used in compressor is
A. Engine coolant B. Compressor coolant
C. Raw water D. None of these
85. Air compressor lube oil sump capacity is
A.10 Liters B.12 Liters
C.15 Liters D.23 Liters

86. Air compressor in the HHP locomotive is
A. Single stage B. Two stage
C. Three stage D. Four stage
87. How many brake cylinders are used per bogie
A. 06 Nos B. 04 Nos
C. 02 Nos D. 05 Nos
88. Which type of bogie is used in HHP locomotive
A. Fabricated bogie B. Cast steel
C. High tensile cast steel D. None of these
89. In HHP locomotive Air brake is controlled by
A. Mechanically B. Electrically
C. Computer D. None of these
90. Brake system in WDP4 &WDG4 loco is
A. 28LAV-1 B. 28LV-1
C. CCB-KNORR D. None of these
91. In HHP locomotive the first schedule carried out after
A. One month B. Three month
C. Four month D. 15 Days

92. In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle
A. Isolate the defective TM
B. Isolate the defective speed sensor
C. Fail the loco immediately
D. Isolate the defective truck

93. In WDP4/WDG4 loco if water pressure is less
A. LLOB trips
B. Low water pressure button will trip
C. Crank case pressure button will trip
D. Both A and B

94. In WDP4/WDG4 loco while conducting air brake self test on working control stand.
A. A9 handle should be kept in run position
B. SA handle should be kept in release position
C. LT switch in trail position
D. Both A and B

95. In WDP4/WDG4 loco while conducting air brake self test in working control stand
A. A9 handle should be kept in FS
B. SA9 should be kept in release
C. Both a and b
D. LT switch in Trail

96. In WDP4/WDG4 loco while conducting BP leakage test L/T switch should be kept in
A. Lead position
B. Trail position
C. TEST position
D. Helper

97. In WDP4/WDG4 loco Load meter will not respond if
A. GFB trips
B. AGFB trips
C. Both A & B
D. MAB trips

98. In WDP4/WDG4 loco when PCS is knocked out
A. MAB breaker should be recycled
B. TCC breaker should be recycled
C. Air drier breaker
D. Both A and B

99. In WDP4/WDG4 loco while conducting BP leakage test. L/T switch should be kept in
A. Lead
B. Trail
C. Helper
D. Test

100. In WDP4/WDG4 loco speed sensor should be isolated when
A. False locked axle indication
B. Traction motor is burnt experienced
C. Axle locked condition
D. Both A and B

101. In WDP4/WDG4 loco if LLOB is in tripped position during cranking engine will
A. Crank
B. Not Fire
C. Not hold
D. Not crank

102. In WDP4 /WDG4 loco before conducting air brake self test
A. Recycle MAB
B. Recycle TCC1 and TCC2
C. Recycle Air drier breaker.
D. Both A & B

103. Location of EST in WDG4 loco is in
A. Control stand
B. control panel
C. Generator room
D. Accessories room

104. In WDG4 loco LLOB is located in
A. Accessories room
B. Compressor room
C. Engine power take off end
D. ECC3

105. In WDP4/WDG4 loco during false locked axle indication
A. Isolate the defective truck
B. Isolate the defective speed sensor
C. Isolate the defective TM
D. Fail the loco

106. In WDP4/WDG4 dead loco for quick release of loco brakes open one side
A. MR equalising cock
B. BC equalising cock
C. BP equalising pipe
D. Both A & B

107. Location of BS in WDG4 Loco is
A. On foot plate
B. In Accessories room
C. In LP's cab
D. In ECC 3

108. In WDP4/WDG4 Loco when lube oil temperature exceeds 124 degree centigrade.
A. Hot oil detector operates
B. LLOB operates
C. OSTA trips
D. Both A and B

109. In WDP4/WDG4 banker loco working control stand A9 should be kept in
A. FS position
B. Run position

C. Release position
D. Emergency position

110. In WDP4/WDG4 loco engine should not be cranked when
A. Low water button is tripped
B. crank case pressure button is tripped
C. LLOB is in tripped
D. OSTA is tripped

111. In WDP4/WDG4 banker loco working CS, L/T switch should be kept in
A. Lead
B. Trail
C. HLPR
D. Test

112. In WDP4/WDG4 loco defective speed sensor should be isolated if
A. False locked axle indication
B. GR trips more than 3 times within experienced 10 minutes
C. Any one TM is defective
D. Crow bar fires

113. Oil visibilty in bye pass sight glass indicates that
A. Primary filter is choked.
B. Spin on filter choked.
C. Lube oil filter choked.
D. Lube oil strainer choked.

114. In WDP4/WDG4 loco choking of fuel oil primary filter is indicated by
A. Filter condition guage.
B. Oil visibility in bye pass sight glass.
C. Both A & B
D. Oil visibility in sight glass near to engine block

115. WDP4/WDG4 MU trailing loco L/T switches in both control stand should be kept in
A. Lead
B. Trail
C. test
D. Helper

116. Oil lubricated TM gear case is provided in
A. WDM 2
B. WDM 3D
C. WDG 3A
D. WDP4

117. If AGFB tripped in WDP4/WDG4 locos
A. Battery will discharge
B. Load meter will not respond
C. Both A and B
D. Engine will shut down

118. Firing order of HHP Loco
A.1,8,9,16,3,6,11,14,4,5,12,13,2,7,10,15
B. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
C. 1,3,5,7,9,11,13,15,16,2,4,6,8,10,12,14
D. None of these

119. Model of Main Generator assembly in WDG4 Loco
A.TA17-CA6B
B. 5A-8147
C. Both A & B
D. None of these

120. Model of AC AUX. Generator in WDG4 Loco
A.TA17-CA6B
B. 5A-8147
C. Both A & B
D. None of these

121. Model of Traction Motor in WDG4 Loco
A.TA17-CA6B
B. 5A-8147
C. TB26221
D. None of these

122. Speed of Traction Motor in WDG4 Loco
A. 3220 RPM
B. 2000 RPM
C. 904 RPM
D. None of these

123. Horse Power of Traction Motor in WDG4 Loco
A. 500KW
B. 600KW
C. 1430KW
D. None of these

124. In WDG4 Loco Traction Motor is……
A. Force air ventilated cooled
B. Oil cooled
C. Water cooled
D. None of these

125. Nominal AC Aux. Generator Voltage in WDG4 Loco
A. 64VDC B. 55V AC
C. 74VDC D. None of these

126. Rectified Voltage of AC Aux. Generator in WDG4 Loco
A. 64VDC B. 55V AC
C. 74VDC D. None of these

127. Max Power output of AC Aux. Generator in WDG4 Loco
A. 18KW B. 25KW
C. 20KW D. None of these

128. Total nos. of Batteries in WDG4 Loco Lead acid type
A. 10 B. 02
C. 08 D. None of these

129. Total nos of cell of Batteries in WDG4 Loco (Lead acid type)
A. 32 B. 50
C. 64 D. None of these

130. Total nos of cell of Batteries in WDP4 Loco (Ni-Cadmium type)
A. 32 B. 50
C. 64 D. None of these

131. Voltage of Battery Cell in WDP4 Loco (Ni-Cadmium type)
A. 1.5V B. 2.1V
C. 2.5V D. None of these

132. Voltage of Battery Cell in WDG4 Loco (Lead acid type)
A. 1.5V B. 2.1V
C. 2.5V D. None of these

133. Total Voltage of Batteries in WDG4 Loco (Lead acid type)
A. 68V B. 75V
C. 72V D. None of these

134. Total Voltage of Batteries in WDP4 Loco (Ni-Cadmium type)
A. 68V B. 75V
C. 72V D. None of these

135. Total nos of Batteries in WDP4 Loco (Ni-Cadmium type)
A. 10 B. 02
C. 08 D. None of these

136. Total nos of Cylinder of Air Compressor in WDG4 Loco
A. 06 B. 03
C. 04 D. None of these

137. Capacity of lube oil of Air Compressor in WDG4 Loco
A. 9.98Litter B.12 Litter
C.06 Litter D. None of these

138. Model of WDG4. Loco
A.GT46MAC B.GT46PAC
C.Both A & B D. None of these

139. Model of WDP4. Loco
A.GT46MAC B.GT46PAC
C. Both A & B D. None of these

140. Nos of Axles in WDP4 &WDG4 Locos
A.06 B.04
C.08 D.None of these

141. How many Traction Motors in WDP4 Locos
A.06 B.04

C.08 D. None of these

142. In WDP4 Locos Traction Motor fitted on
A. Axles no.1, 2 & 5, 6 B. All Axles
C. Axles no.1, 2 & 3, 4 D. None of these

143. In WDP4 Locos Engine starting switch is located
A. ECP B. Engine room
C. Control stand D. None of these

144. In WDG4 Locos Engine starting switch is located
A. ECP B. Engine room
C. Control stand D. None of these

145. In WDG4 Locos RADAR is located
A. Between Rear bogie & Fuel tank B. Engine room
C. Between Front bogie & Fuel tank- D. None of these

146. In WDP4 Locos RADAR is located
A. Between Rear bogie & Fuel tank B. Engine room
C. Between Front bogie & Fuel tank D. None of these

147. Blended brake, Low water level switch, Temperature gauge & color code are provided in
A. WDP4 B. WDG4
C. Both A & B D. None of these

148. Starting Tractive effort of WDG4 Loco is
A. 540KN B. 270KN
C. 400KN D. 200KN

149. Starting Tractive effort of WDP4 Loco is
A. 540KN B. 270KN
C. 400KN D. 200KN

150. Max. Continuous Tractive effort of WDP4 Loco is
A. 540KN B. 270KN
C. 400KN D. 200KN

151. Max. Continuous Tractive effort of WDG4 Loco is
A. 540KN B. 270KN
C. 400KN D. 200KN

152. Max. Dynamic Tractive effort (Speed 40 KMPH to 0) of WDG4 Loco is
A. 540KN B. 270KN
C. 400KN D. 200KN

153. Max. Dynamic Tractive effort (Speed 68 KMPH to 1) of WDP4 Loco is
A. 540KN B. 270KN
C. 160KN D. 200KN

154. Dead engine cut-off cock & C3W Distributor valve in WDP4/WDG4 Locos are located in
A. Nose compartment B. Driver Cabin
C. Engine compartment D. Radiator compartment

155. Lead/Trail Air Brake Set-up Switch mounts on
A. The lower right corner of the air brake controller B. Nose compartment
C. Engine compartment D. Radiator compartment

156. How many braking position of A-9 valve have.
A. 05 breaking position B. 04 breaking position
C. 03 breaking position D. 01 breaking position

157. How many braking position of SA-9 valve have..
A. 03 position B. 02 position
C. 05 position D. 01 position

158. In minimum reduction position of A-9 brake valve BP should drop up to (PSI)...
A. 0 to3 PSI B. 4 to 7 PSI
C. 8 to 11 PSI D. 12 to 15 PSI

159. In WDG 4 if false locked wheel indication is experienced

A. Isolate defective sensor
B. Isolate defective truck
C. Isolate defective TM
D. Fail the loco

160. In WDP4/WDG4 if GR (power) trips continuously three times within 10 minutes
A. Truck isolation is to be done
B. Defective TM is to be isolated
C. Defective speed sensor is to be isolated
D. Fail the Loco

161. In WDP4/WDG4 engine cranking but not starting due to
A. EPD Tripped
B. Governor not advancing fuel racks
C. No fuel reaching in the cylinders
D. Any one of above

162. In WDP4/WDG4 thick black smoke and poor hauling due to
A. Low fuel oil pressure & Low booster air pressure
B. Faulty turbo
C. Faulty injectors.
D. Any one of above

163. Temperatures of Engine exhaust gas reach up to
A. 538°C
B. 438°C
C. 338°C
D. None of these

164. Main parts of KNORR/NYAB CCB 1.5 Brake system are
A. VCU & CRU
B. PCU & KE Valve
C. BVC
D. All of above

165. Total no. of Keys on EM2000 Display Panel are
A. 8
B. 16
C. 10
D. 12

166. No. of Radiator fan in WDP4 &WDG4 Locos
A.02
B.01
C.03
D. None of these

167. No. of Grid Blower Motors in WDP4 &WDG4 Locos
A.04
B.02
C.03
D.None of these

168. No. of Brake blocks in HHP Locos
A.24
B.12
C.08
D.None of these

169. When Computer controlled Breaker is recycled the disabled speed sensor.
A. Remain Disabled
B. Gets enabled but not to be disabled again
C. Remain disabled but to be enabled
D. Get enabled automatically & has to be disabled

170. Brake warning Indication
A. Excessive Main Alternator
B. Excessive Breaking current in DB
C. Excessive Air Breaking
D. Excessive Main Generator Current

171. When Reverser is thrown in forward direction, Sanders of
A. No (3) & (6) only work
B. All sanders work
C. sanders works irrespective of Reverser
D. No (1) & (4) wheels only work

172. Battery charger rectifies AC to DC of
A. Aux gen output
B. Companion Alternator output
C. Main Alternator output
D. None of the above

173. B.P continuity not getting to train from a working WDG4 Loco due to
A. Additional BP COC closed in train end
B. BP angle cock defective
C. In train end no BP pressure in loco
D. All of the above

174. On run GR Trip then the engine
A. Will shut - down
B. Comes to idle
C. No effect on engine
D. No effect on loco

175. What is the type of lubrication system being used in diesel loco
A. Gravity lubrication
B. Force Feed lubrication
C. Force Feed & splash lubrication
D. Capillary lubrication

176. To check engine sump level, engine should be in condition

A. Shout – down
B. 4th Notch
C. Idle
D. 2nd Notch

177. Each Traction Motor provided with
A. One speed sensor
B. One speed sensor & one temp sensor
C. One temp sensor
D. Two speed sensor

178. Diameter of new wheels in WDP4 locos is
A. 1090mm
B. 1092mm
C. 1100mm
D. 1080mm

179. When there is communication link failure and micro air breaker is active, the loco will work
A. As lead in
B. Only in trail mode
C. In both modes
D. In helper mode

180. To recover PCS, it is compulsory to keep
A. Both throttle handle in idle
B. Any one throttle handles in idle
C. Leading control stand throttle handle in idle
D. Leading throttle handle in idle & reversor in neutral

181. The companion alternator runs at the same speed as
A. Engine rpm
B. Aux gen rpm
C. Turbo rpm
D. Locomotive rpm

182. MR Pressure dropping on run due to
A. Air dryer defective
B. Auto drain valve malfunctioning
C. Break cylinder pipe damaged
D. All of above

183. WDP4/WDG4 Hand break applies on wheels
A. R4
B. R5
C. R4
D. L4

184. Break cylinder pressure in WDP4/WDG4
A. 5.2 kg /sq.cm
B. 4.8 kg /sq.cm
C. 3.8 kg /sq.cm
D. 3.5 kg /sq.cm

185. MR pressure not building up due to
A. MR EQ COC in open condition
B. Pipe link chocked in MRPT system
C. Defective MVCC
D. All of above

186. What is the effect of auto flasher operation
A. Engine comes to idle
B. auto flasher indication
C. Buzzer
D. All of above

187. ER/BP not creating
A. LT switch defective
B. Air break failure
C. Penalty not reset
D. All of above

188. Lube oil pumps provided In HHP
A. Scavenging pump
B. Piston cooling pump & main lube oil pump
C. Turbo lube pump
D. All of above

189. Radiator fan controlled by
A. EM2000
B. TCC
C. EM2000 & TCC
D. None of these

190. Load demand of the traction motor is met by
A. EM2000
B. TCC
C. EM2000 & TCC
D. None of these

191. Total No. of After coolers inWDP4/WDG4

A.4 B.3

C.2 D.5

192. Total no. of Water expansion tanks inWDP4/WDG4

A.1 B.2

C.3 D.4

193. In WDP4/WDG4 BA consists of two zones

A. Green zone & red zone B. Green zone & yellow zone

C. yellow zone & red zone D. None of these

194. In WDP4/WDG4 slipped pinion will be indicates clearly by

A. Loco not moving B. Train not hauling loads

C. High motor rpm in computer feedback D. None of these

195. Head light rating in WDP4/WDG4 loco is

A. 100W 32V B. 200W 30V

C. 250W 32V D.250W 34V

196. Governor is used in HHP Loco

A. GE Governor B. WW Governor

C. Both (A) & (B) D. None of these

197. Type of cooling water pump used in WDP4/WDG4 Locomotives

A. Centrifugal B. Reciprocating

C. Positive displacement D. None of these

198. OSTA in WDP4/WDG4 trip at minimum

A.960RPM B. 1000RPM

C. 1020 D. None of these

199. Flasher light working voltage

A. 72V B. 12V

C. 24V D. None of these

200. No of Main bearings available in WDP4 Locomotives

A. 12 B. 14

C. 10 D. None of these

## ANSWER SHEET

| Q. No. | ANSWER | Q. No. | ANSWER | Q. No. | ANSWER | Q. No. | ANSWER |
|---|---|---|---|---|---|---|---|
| 1. | D | 26. | C | 51. | B | 76. | C |
| 2. | A | 27. | C | 52. | B | 77. | B |
| 3. | D | 28. | A | 53. | B | 78. | B |
| 4. | B | 29. | A | 54. | D | 79. | A |
| 5. | A | 30. | C | 55. | A | 80. | C |
| 6. | A | 31. | C | 56. | B | 81. | C |
| 7. | B | 32. | A | 57. | C | 82. | D |
| 8. | D | 33. | A | 58. | C | 83. | B |
| 9. | C | 34. | C | 59. | D | 84. | A |
| 10. | C | 35. | A | 60. | C | 85. | A |
| 11. | B | 36. | B | 61. | D | 86. | B |
| 12. | A | 37. | A | 62. | B | 87. | B |
| 13. | B | 38. | A | 63. | B | 88. | C |
| 14. | B | 39. | B | 64. | A | 89. | C |
| 15. | A | 40. | A | 65. | C | 90. | C |
| 16. | C | 41. | D | 66. | A | 91. | B |
| 17. | A | 42. | A | 67. | B | 92. | C |
| 18. | A | 43. | C | 68. | C | 93. | D |
| 19. | B | 44. | A | 69. | C | 94. | D |
| 20. | A | 45. | C | 70. | B | 95. | B |
| 21. | A | 46. | A | 71. | C | 96. | C |
| 22. | A | 47. | A | 72. | B | 97. | C |
| 23. | B | 48. | C | 73. | C | 98. | A |
| 24. | B | 49. | B | 74. | C | 99. | D |
| 25. | A | 50. | B | 75. | C | 100. | A |

| Q. No. | ANSWER | Q. No. | ANSWER | Q. No. | ANSWER | Q. No. | ANSWER |
|---|---|---|---|---|---|---|---|
| 101. | D | 126 | C | 151 | C | 176 | C |
| 102. | A | 127 | A | 152 | B | 177 | B |
| 103. | D | 128 | B | 153 | C | 178 | B |
| 104. | A | 129 | A | 154 | A | 179 | B |
| 105. | B | 130 | B | 155 | A | 180 | D |
| 106. | C | 131 | A | 156 | A | 181 | A |
| 107. | A | 132 | B | 157 | A | 182 | D |
| 108. | D | 133 | A | 158 | B | 183 | A |
| 109. | A | 134 | B | 159 | A | 184 | A |
| 110. | B | 135 | A | 160 | A | 185 | D |
| 111. | C | 136 | B | 161 | D | 186 | D |
| 112. | A | 137 | A | 162 | D | 187 | D |
| 113. | B | 138 | A | 163 | A | 188 | D |
| 114. | D | 139 | B | 164 | D | 189 | A |
| 115. | B | 140 | A | 165 | B | 190 | B |
| 116. | D | 141 | B | 166 | A | 191 | C |
| 117. | C | 142 | A | 167 | B | 192 | A |
| 118. | A | 143 | A | 168 | B | 193 | A |
| 119. | A | 144 | B | 169 | D | 194 | C |
| 120. | B | 145 | C | 170 | B | 195 | C |
| 121. | C | 146 | A | 171 | D | 196 | B |
| 122. | A | 147 | A | 172 | A | 197 | A |
| 123. | A | 148 | A | 173 | D | 198 | A |
| 124. | A | 149 | B | 174 | B | 199 | B |
| 125. | B | 150 | D | 175 | D | 200 | C |

*****END*****

# Crew Management System

1. CMS is aimed to provide _____ (D)
   a Position of crew at HQ/OS
   b Maintain status wise records
   c PR, maintaining LR,PME details
   d All of the above
2. Objectives of CMS_____ (D)
   a Optimization of crew
   b Monitoring of LR and training schedules
   c Monitoring of 10hrs duty and HOER
   d All of the above
3. What is TA_____ (B)
   a Traffic Apprentices
   b Traffic Advice
   c Train Acknowledgement
   d Train Application
4. CMS can work in _____ (A)
   a Online mode
   b Offline mode
   c Both A and B
   d None of the above
5. Who creates the TA_____ (A)
   a Traffic supervisor
   b BET
   c CCC
   d Both A and C
6. Sign-ON and Sign-OFF approval given by _____ (B)
   a TNC
   b Traffic supervisor
   c CCC
   d Not required any approval
7. Username is unique for _____ (D)
   a Division Console
   b Lobby Console
   c Supervisor Console
   d Both A and B
8. Browser for CMS reports_____ (C)
   a cms.indianrail.com.in
   b cms.indianrailways.go
   c cms.indianrail.gov.in
   d 10.60.200.168/cmsreport

9. User password should not contain_____ (D)
   a User name and user ID
   b Crew ID
   c Special Character
   d All the above
10. Password validity period____months (C)
   a 3
   b 5
   c 6
   d 4
11. _____is responsible for Crew booking in CMS (B)
   a TNC
   b Supervisor
   c Both
   d CCC
12. Routes can be created at _____ (D)
   a Depot level
   b Division level
   c Zonal level
   d CRIS/NDLS
13. Train pulling timings are_____for all Lobbies (B)
   a Same
   b Different
   c Discrimination of on duty supervisor
   d None of the above
14. Who is authorized for crew grading. (B)
   a CCC
   b CLI
   c Any one of A & B
   d Branch officer
15. Which one of the following is not belongs to crew biodata? (D)
   a Others
   b Training
   c Loco competency
   d Training pulling
16. In CMS LR due time can be configured at_____level as per logic. (B)
   a Zonal level
   b Division level
   c Lobby
   d Both A & B
17. The concept of crew serve call given from station A, but crew need to sign on at station B is called ____ (B)
   a Parent Lobby
   b Sister Lobby
   c HQ Lobby
   d Both A & B

18. Process of sign on crew will be shifted to new TA is called as (A)
    a Swapping of crew
    b Swapping of TA
    c Resetting of TA
    d Both B & C
19. What is FAFO? (C)
    a First Arrival First Out
    b First Available First Off
    c First Available First Out
    d First Arrival First Off
20. Sorting of HQ crew depends on which logic (D)
    a FAFO
    b FIFO
    c Progressive hours
    d Any one of the above
21. _____is called sorting of crew by arrival time. (A)
    a FIFO
    b FAFO
    c Progressive hours
    d Any one of the above
22. _____option is to be applied to get fortnight cumulative hours while crew booking (C)
    a FIFO
    b FAFO
    c Progressive hours
    d Any one of the above
23. Parameters to be checked in “Fetch crew as per Rule” is _____ (D)
    a PME & G and SR
    b Traction, Tech training
    c LR, Rest and Loco competency
    d All of the above
24. Parameters to be checked in “Fetch crew All” is _____ (D)
    a PME
    b G & SR
    c Completion Rest
    d Both A & B
25. Serving of calls to crew can be done _____ (D)
    a Automatically
    b Manually
    c Both A & B
    d Any one of A and B

26. SMS will be triggered to crew in_____call serve. (A)

a Automatic
b Manual
c Both A & B
d None of the above

*****END*****

# Leave Rules

1. How many days of LAP in a calendar year, a permanent/ Temporary Railway servant shall be entitled to get?
   a) 20 days b) 15 days c) 30 days d) 45 days

   Ans:- (c) 30 days in a calendar year; (Para-523 of IREC,Vol-I,1995 edition)

2. How many days of HLAP in a year, can be credited to an employee?
   a) 30 days b) 10 days c) 20 days d) 12 days

   Ans:- (c ) 20 days in a year; (Para-526 of IREC,Vol.-I,1995 edition)

3. A female Railway employee shall be entitled to maternity leave for
   a) 135 days b) 120 days c) 90 days d) 130 days

   Ans:- (a) 135 days; (Estt. Srl. No. 162/97 & Para-551 of IREC-Vol.I,1995 edition)

4. For miscarriage, including abortion, what period of Maternity leave may be granted?.
   a) 6 weeks b) 45 days c) 7 weeks d) 43 days.

   Ans:- (b) 45 days; (Estt. Srl. No. 72/97 )

5. Paternity leave is admissible with less than two surviving children for a period of
   a) 10 days b) 20 days c) 15 days d) 25 days

   Ans:- (c ) 15 days; (Estt. Srl. No. 162/97 & 154/97)

6. Maximum days of leave on average pay that can be accumulated is
   a) 120 b) 180 c) 190 d) 300 days

   Ans:- (d) 300 days; (Estt. Srl. No. 172/97 )

7. LAP shall be credited to a Railway servant at the rate of
   a) 2½ days per month b) 3 days per month c) 2 days per month d) 1½ days per month

   Ans:- (a) 2 ½ days per month; (Para-524 of IREC,Vol-I,1995 edition)

8. How many days of LAP per year can be credited to a school staff ?
   a) 10 days b) 5 days c) 7days d) 8 days

   Ans:- (a) 10 days; (Para-525 of IREC,Vol-I,1995 edition)

9. How many days of LHAP can be accumulated to an employee in his service life?
   a) 300 days b) 450 days c) 600 days d) Un limited

   Ans:- (d) Unlimited; (Para-526 of IREC,Vol-I,1995 edition)

10. A male railway servant may be granted Paternity leave having surviving children
    a) Less than two b) One c) Four d) Three

    Ans:- (a) Less than two surviving children; (Para-551(A) R-I)

11. Up to what limit, maternity leave may be combined with any kind of leave?
    a) One year b) Two years c) Unlimited d) Six months

    Ans:- (a) One year; (Para-551, R-I)

12. A Trade Apprentices may be granted leave on full stipend for a period not exceeding---------- days per year.
a) 15 days b) 13 days c) 10 days d) 12 days

Ans:- (d) 12 days; (Para-534, R-I)

13. Apprentice Mechanics in Railways Workshops may be granted leave on full stipend for period not exceeding…...
a) 16 days b) 20 days c) 25 days d) 30 days

Ans:- (a) 16 days; (Para-533, R-I)

14. Gazetted officers may be granted LAP for the period exceeding 180 days but not exceeding ……, if leave granted outside India.
a) 200 days b) 240 days c) 230 days d) 250 days

Ans:- (b) 240 days; (RBE No. 42/92)

15. Study leave shall count for :-
a) Reckoning seniority b) Reckoning increment c) Earning LAP d) Earning LHAP

Ans:- (c ) Earning LAP (R-I, 556)

**LEVEL-II**

16. Which of the following category is entitled for hospital leave?
a) Group 'A' b) Group 'B' c) Group 'C' d) Group 'D'

Ans:- (d) Group 'D' only. (Para-554 of IREC, Vol.-I)

17. When no leave is admissible under any other rule, the leave granted is known as
a) LAP b) LHAP c) SPL Leave d) Extra ordinary leave.

Ans:- (d ) Extra ordinary leave (Para 530, R-I)

18. Maximum encashment of leave on average pay is…….
a) 200 days b) 180 days c) 360 days d) 300 days

Ans:- (b) 180 days;

19. Who is the authority to sanction Special Disability Leave?
a) Senior Scale Officer b) J A Grade Officer c) DRM d) ADRM

Ans:- (d) ADRM (Rule 552, 553, R-I).

20. Leave of any kind can be combined with vacation in the case of
a) Officers b) Office Staff c) Running Staff d) Rly. School Teacher

Ans:- (d) Rly. School Teacher (Para 525, R-I).

21. What is the maximum period of leave on Average pay at time that a Railway servant may be granted?
a) 120 days b) 160 days c) 180 days d) 300 days

Ans:- (c) 180 days; (Para 523, R-I)

22. What is the maximum limit of Leave not due that may be granted to a permanent Rly. Servant during his entire service period?
a) 360 days b) 380 days c) Unlimited d) 300 days

Ans:- (a) 360 days; (E. S. No. 31/89 & Para 528,R-I, 1995 edition)

23. Within which period, Paternity Leave can be granted?
a) Six months b) Three months c) Four months d) 15days

Ans:- (a) 6 months; (E. S. No. 05/2000)

24. Special Disability Leave on average pay granted for accident on duty shall not exceed……
a) 120 days b) 125 days c) 360 days d) 280 days

Ans:- (d) 280 days; (Para 553 (iii), R-I)

25. Paternity leave is also admissible to
a) Casual Labour b) Casual Labour with temporary status
c) After completion of 180 days of service d) After regular absorption

Ans:- (b) Casual labour with temporary status; (E. S. No. 143/99)

26. Staff of which Railway are entitled to avail extra Casual leave?
a) SER b) ECOR c) NFR d) ECR

Ans:- (c) NFR

27. Whom does the Compensatory Casual leave is admissible?
a) Supervisory staff b) Group 'D' staff
c) Group 'C' & Group 'D' staff but not supervisor d) Stenographer & Confidential Assistant

Ans:- (c) Group 'C' & Group 'D' staff but not supervisor; (E. S. No. 27/61)

28. Quarantine Leave
a) Withdrawn b) Admissible in critical diseases c) For Eye disease d) Wife's Sickness

Ans:- (a) Withdrawn; (Para, 555, R-I)

**LEVEL-III**

29. Commuted leave is admissible on
a) Medical Certificate b) Request of an employee
c) Discretion of competent authority d) None

Ans:- (a) On Medical Certificate; (Para, 527, R-I)

30. If a Railway employee applies for a kind of leave say LAP, in advance, the competent authority may……..
a) Sanction as CL b) sanction as LWP
c) refuse to sanction it d) convert it as commuted leave

Ans:- (c) Refuse to sanction it; (Para, 503, R-I)

31. A Railway shall be granted leave of any kind for a continuous period of not exceeding……
a) 3 Years b) 4 years c) 5 years d) 6 years

Ans:- (c) 5 years; (Para, 510, R-I)

32. Which of the following leave can be combined with vaction in case of a school teacher?
a) Only LAP b) Only LHAP c) Any kind of leave d) Special disability leave

Ans:- (c) Any kind of leave; (Para, 525 (d) , R-I)

33. How many occasions does a workshop staff be granted half a day's LAP?
a) 6 occasions b) 10 occasions c) 6 occasions d) 12 occasions

Ans:- (a ) 6 occasions ( Para539/2, R-I)

34. Hospital leave granted to a Non-Gazetted Rly. Servant should not exceed a total of ……..when combined with other leave
a) 24 months b) 26 months c) 28 months d) 18 months

Ans:- (c ) 28 months (554/4, R-I

35. What is the maximum limitation of Leave Not Due granted on medical certificate during the entire period of service?
a) 360 days b) 365 days c) 370 days d) 390 days

Ans:- (a) 360 days; (E .S.No.30/89)

36. Maximum of study leave that can be granted to an employee during his entire service period is ……..
a) 36 months b) 28 months c) 24 months d) 30 months

Ans:- (a ) 36 months (170/98 )

37. In case of 'Cut in pension', for compulsory retirement as a measure of punishment, leave encashment is admissible for…
a) 360 days b) 150 days c) un utilized days d) not eligible

Ans:- (d) not eligible; (E.S.No.334/87)

38. Which of the following leave may be granted to a Rly. Servant, volunteered to donate blood in Govt./Rly. Hospitals for railway employees.
a) Special Casual leave b) casual leave c) LAP d) LHAP

Ans:- Special Casual leave.

39. If a railway servant resigns from service during study leave, and it is converted into regular leave as LAP/LHAP leaving balance, such a balance shall be treated as….
A) unauthorized absence b) Extra ordinary leave c) Study leave d) Leave not due

Ans:- (b) Extra ordinary leave (R-I, Appv./ul/2/w)

40. Who is the Authority to grant study leave abroad?
a) Rly. Board b) GM c) DRM d) CPO

Ans:- (a) Rly. Board (E.S.No.77/02)

41. Who is the Competent Authority to grant study leave within India?
a) Rly. Board b) GM c) DRM/CWM d) CPO

Answer:- (b) Rly. Board (E.S.No.77/02)

*****END*****

# PASS RULES

Q 1. What is Pass?

(a) Pass is a Privilege
(b) To travel in Railway
(c) An authority given by Railway to a Railway employee or to a Person authorizing him to travel in a train gratuitously
(d) None of these.

**Answer: (c)**

Q 2. Family means.

(a)Wife, Husband, Son/Step sons under the age of 21 years and wholly dependent. Bonafide student of any recognized University. Unmarred daughter of any age whether earning or not, dependent widow daughter. Railway Doctor's certified invalid son daughter of any age.
(b) Wife, Husband, son/Step son/Son-in-law/mother-in-law/daughter of any age.
(c)Husband, Wife/Widow mother/son/Step son of any age/Daughter of any age
(d) Husband/Wife/Sons/Daughters of any age/Mother-in-law, if father is not alive.

**Answer: (a)**

Q 3. How many sets of P.T.O. issued to the Railway employees?

(a) 6 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(b) 4 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(c) 3 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(d) 6 sets for Gazetted and 4 sets for Non-Gazetted.

Answer: (d) (Rule-6) Railway Board's Manual.

Q 4. How many sets of School Pass issued to Railway employee?

(a) 6 sets per year. (b) 4 sets per year.
(c) 3 sets per year. (d) 5 sets per year

Answer: 3 sets per year

Q 5. Maximum validity for a Privilege Pass?

(a) 3 months (Half-set) (b) 4 months (Full-set)
(c) 2 months (Half-set) (d) 5 months (Full-set)

(Answer : (d)

Q 6. Attendants of Pass Holder is:-

(a) Part time servant. (b) Servant
(c) Full time paid servant. (d) Any person.

Answer : (c)

Q 7. Pass to widows/widower of Railway employee was implemented w.e.f.
(a) 12.03.1987 (b) 12.03.1990 (c) 12.03.1989 (d) 12.03.1988

Answer: (a) Rule 9

Q 8. Maximum birth given for Reservation to Railway Officer on duty?
(a) 6 births (b) 4 births (c) 3 births (d) 2 births

Answer: (b)

Q 9. Eligibility for 1st Class Pass for Non-Gazetted staff. Who are appointed before 01.08.1969
(a) Basic Pay – 5375 in scale Rs. 4000-6000/- (5th PC)
(b) Basic Pay – 4900 in scale Rs. 4000-6000/- (5th PC)
(c) Basic Pay – 5100 in scale Rs. 4000-6000/- (5th PC)
(d) Basic Pay – 4900 in scale Rs. 4000-6000/- (5th PC)

Answer: (b)

Q 10. When Higher Class Pass issued
(a) On medical ground. (b) On Scouts & Guide
(c) None of these (d) Cultural functions

Answer: (a)

Q 11. Penalties for not filling the date of commencement of journey (Privilege/Duty), 2nd Class Pass holder__
(a) Rs. 5/- (b) Rs. 10/- (c) Rs. 15/ (d) Rs. 20/-

Answer: (b)

1st Class Pass holder -
(a) Rs. 15/- (b) Rs. 25/- (c) Rs. 35/- (d) Rs. 50/-

Answer: (b)

Q 12. Loss of a Retired Complimentary Pass?

2nd Class Pass holder
(a) Rs. 10/- (b) Rs. 20/- (c) Rs. 30/ (d) Rs. 40/-

Answer: (a)

Q 13. Penalties for loss of a School Card Pass/Residential Card Pass.

2nd Class Pass holder
(a) Rs. 10.50/- (b) Rs. 12.50/- (c) Rs. 13.50/- (d) Rs. 14.50/-

Answer: (b)

Q 14. 1st & 1st ‘A’ Pass holder
(a) Rs. 35/- (b) Rs. 40/- (c) Rs. 45/- (d) Rs. 50/-

Answer: (a)

Q 15. Penalties for loss of a Gold Pass.

(a) Rs. 3009/- (b) Rs. 3309/- (c) Rs. 3109/- (d) Rs. 3209/-

Answer: (b)

Q 16. Penalties for loss of a Silver Pass.

(a) Rs. 1890/- (b) Rs. 1790/- (c) Rs. 1799/- (d) Rs. 1690/-

Answer: (b)

Q 17. Penalties for loss of a Bronze Pass.

(a) Rs. 1729/- (b) Rs. 1829/- (c) Rs. 1629/- (d) Rs. 1529/-

Answer: (a)

Q 18. Privilege issued Pass/P.T.Os. are admissible when a staff is on

(a) Any kind of leave. (b) Only extra ordinary leave.
(c) Only study leave. (d) Only special disability leave.

Answer: (a)

Q 19. Weekend are issued to:

(a) Any railway employee. (b) Married railway employee.
(c) If father is not alive of a railway employee. (d) Un married railway employee.

Answer: (b)

Q 20. Passes are not admissible over Nilgiri Railway during the month (except Gazetted staff)

(a) January, February, March (b) April, May, June
(c) July, August, September (d) October, November, December.

Answer: (b) Rule 6-3 (XVIII)

Q 21. Full form of P.T.O.

(a) Personnel Ticket Order (b) Permanent Ticket Order
(c) Privilege Ticket Order (d) Pass & Ticket Order.

Answer: (c) Pass Rule 86 Rule 2 (g)

Q 22. Set means

(a) Set means 3 sets of pass per year.
(b) Set means 6 sets of pass per year.
(c) Set means 3 sets of pass & 6 sets of P.T.O. per year.
(d) Set means One set of pass or P.T.O. for Outward and Return journey.

Answer: (d) Pass Rule 86 Rule 2 (k)

Q 23. Break journey is not permissible in case of
(a) Transfer Pass. (b) School Pass.
(c) Settlement Pass. (d) Post Retd. Complimentary Pass.

Answer: (c)

Q 24. On what grounds a 1st class School Pass is issued to a 2nd class pass holders.
(a) Studying in Sindia School/Gwalior
(b) Studying in South Point School/Kolkata
(c) Studying in Ram Krishna Mission School/Belur
(d) Studying in Oak Grove School/Jharipani/Dehradun.

Answer: (d) Rly.Bd.'s No.E(G) LIPS 5-1/5 dt. 29.3.61.

Q 25. How many sets of Pass will be deducted for un-authorized occupying Railway quarter?

(a) One set will be deducted for two months.
(b) One set will be deducted for one month.
(c) One set will be deducted for one year.
(d) One set will be deducted for three months.

Answer: (b)

Q 26. How much Service (minimum) is required for Post Retired Complimentary Pass
(a) 20 years (b) 25 years (c) 15 years (d) 33 years

Answer: (a)

Q 27. What basic Pay is required for traveling in 1st AC on duty for self-only?
(a) All Group 'B' Officers. (b) JAG & above grade Officers. Rs. 14300/-
(c) Officers above Rs. 14300/- (d) SS grade officers. Rs. 14300/-

Answer: (b)

Q 28. How many break journeys are admissible in Privilege Pass?
(a) 6 nos. (b) 7 nos. (c) Any number (En-route) (d) 5 nos.

Answer: (c)

Q 29. On what routes Pass can be issued?
(a) Any route. (b) Shortest route & longest route but quicker.
(c) Longest route. (d) Shortest route with 30% of the longest route.

Answer: (b)

Q 30. Irregularity for use of Passes may be condon by
(a) CPO (b) GM (c) CME (d) COM

Answer: (b)

Q 31. How many School Certificates are required for School Card Pass in a year.

(a) One in a year (b) Four in a year
(c) Two in a year (d) One in whole service life

Answer: (c)

Q 32. Who is the competent authority for delayed issue of settlement pass beyond one year of retirement of Group C & D employees.

(a) Any officer (b) Dy.CPO/Pass (c) GM/AGM or CPO/DRM (d) Dy. Secretary (Pass)

Answer: (c) Pass Manual Schedule-VII – Rule XVI.

Q 33. Can Post Retired Complimentary Pass be issued to Quasi Railway Institutions?

(a) No (b) Yes (c) May be issued with the approval of GM. (d) PHOD's approval.

Answer: (a) Schedule VII, Rule XVIII

Q 34. Split Passes are issued to which Railway Servant?

(a) Only Group 'A' service (b) All Officers
(c) All Railway Servants (A, B, C & D) (d) Only GM/AGM.

Answer: (c)

*****END*****

# D & A RULES

1. Which of the following statement do bear the title of Discipline and Appeals Rule in Railways? (c)
(a) The Discipline and Appeal Rules, 1968
(b) The Discipline and Appeal Rules, 1966
(c) The Railway Servants (Discipline and Appeal) Rules, 1968
(d) None of these

2. What is the current date from which the Railway Servants (D&A) Rules, 1968 came into force ? (c)
(a) On the first day of January, 1968
(b) On the 22nd day of August, 1968
(c) On the first day of October, 1968
(d) None of these

3 Which No. of standard form is used for issuance of Major penalty charge sheet on disciplinary proceedings? (c)
(a) SF-11 (b) SF-5
(c) SF-5 (d) None of these

4 Which of the following Rules of DAR 1968 does specify the penalties? (c)
(a) Rule-9 (b) Rule-11
(c) Rule-6 (d) None of these

5 Board of enquiry appointed by the Disciplinary authority? (b)
(a) Not more than 5 members (b) Not less than 2 members
(c) Not less than 3 members (d) Not more than 4 members

6 Where appointing authority are not available who should be treated as appointing authority? (c)
(a) Controlling Officer (b) DRM
(c) GM (d) CPO

7 Disciplinary Authority while passing orders for imposing a penalty should invariably pass? (b)
(a) Orders for penalty (b) Speaking order
(c) None

8 Who is the competent authority to make rule on RS (D&A) Rules? (a)
(a) President of India (b) Ministry of Railways
(c) Member(Staff) (d) Secretary Rly.Bd.

9 When casual labors can be governed under the Railway disciplinary rules? (c)
(a) After 4 months from engagement date (b) After 6 months from engagement date
(c) After attaining temporary status (d) After regular absorption

10. Recognized Trade Union official can be allowed to act as defense counsel in DAR cases in (b)

(a) 2 Nos. of cases (b) 3 Nos. of cases
(c) 5 Nos. of cases (d) Any number of cases

11.Which is relevant rules in R.S. (D&A) Rules, 1968 for common proceedings? (c)
(a) Rule 9 (b) Rules 11
(c) Rule 13 (d) Rule 20

12. If the disciplinary authority of a charged official is also involved in the same case, this case should dealt with by the (c)
(a) Disciplinary Authority (b) Revising Authority
(c) The next higher authority (d) None

13. Whether the disciplinary cases initiated against a Rly. Servant and RS(D&A) Rules, subsequently he is expired his case should be (d)
(a) Continue and finalized (b) Sent to Rly.Board
(c) Sent to GM (d) Closed

14 What would be correct procedure when a faulty charge-sheet requires modification/addition (a)
(a) Canceling the earlier C/sheet with reasons
(b) Without canceling a fresh C/sheet may be issued
(c) Continue the proceedings
(d) None of these

15 Which of the standard form is required to be used for issuing the order of deemed suspension? (c)
(a) SF-1 (b) SF-3
(c) SF-2 (d) SF-4

16 How many Annexures are attached with major penalty charge memorandum? (d)
(a) 2 (b) 3
(c) 5 (d) 4

17 A Rly. Servant punished with stoppage of increment simultaneously is going promotion to the next grade. The penalty will given effect to the (a)
(a) Promotion of the grade for same period (b) But not result in greater monetary loss
(c) Retrospective effect

18 A person appointed directly to a post grade or time scale of pay can be reduced by way of punishment to a post in lower scale/grade service or to a post which he never held before? (b)
(a) Yes (b) No
(c) Can be reduce but his pay to be protected (d) None
19. An acting Rly. Servant can be allowed to act as Defense counsel? (a)
(a) 2 No. of cases (b) 3 No. of cases
(c) 4 No. of cases (d) 5 No. of cases

20. How many cases are dealing a retd. Railway employee as a defense assistant at a time? (b)
(a) 5 (b) 7
(c) 3 (d) 8

21 Which deduction from subsistence allowance cannot be made? (b)
(a) House Rent (b) P.F.subscription
(c) Income Tax (d) None

22 Which of the following deduction is prohibited from subsistence allowance? (c)
(a) House Rent (b) Income Tax
(c) Court attachment (d) Station debits

23 Suspension is not a punishment. However suspension visits employee with various disadvantages. Which one of the following is not a disadvantage as a consequence of suspension? (b)
(a) During the period he cannot leave Hq. Without permission
(b) He need not sign attendance register
(c) Privilege passes cannot be availed
(d) No increment is drawn during suspension

24 When a Rly. Employee placed under suspension but only a minor penalty is imposed, the treatment of the suspension period is as (c)
(a) Dies non (b) Non duty
(c) Duty (d) None

25 If an employee is placed under suspension on the date of retirement, under who is competent to sign the charge sheet? (c)
a) Charge sheet shall be signed by the Rly.Bd.
b) Charge sheet shall be signed by the GM
c) Charge sheet shall be signed by the Disciplinary authority as on the date of retirement
d) President of India

26 Staff major penalty namely. (a)
(a) Compulsory retirement (b) Stoppage of increment
(c) Reduction to the lower stage (d) None

27 A Railway servant under suspension is entitled to (c)
(a) Leave his head qrs. (b) Have passes for attending PNM/JCM
(c) Act as defense counsel (d) None

28 An employee under suspension can be called to appear at a written examination required for selection to the promotion? (a)
a) May be called to appear during suspension b)May be called after suspension is over
c)To be decided by the Disciplinary Authority. d)None of these

29 Compassionate allowance in case of removed employee may be granted under (c)
(a) Rule 20 of pension rules,1993 (b) Rule 64 of pension rules, 1993
(c) Rule 65 of pension rules, 1993 (d) None

30 An employee under suspension, when he reports sick is eligible for grant of sick leave? (d)
a) Grant of sick leave b) Grant of extraordinary leave
c) Grant of Half pay leave d) Not grant of sick leave

*****END*****

# Power Plan, Outage, Load Trials and Engine Links

1. Performa maintained in the zonal power control organization for the statement of outages, laid up of locos and heavy repairs of all sheds ( a )
a) TP 101 b) TP 106
c) TP 104 d) TP 103

2. Performa maintained in the zonal power control organization for the statement of loss on punctuality on loco account and also contribution if any ( d )
a) TP 101 b) TP 106
c) TP 104 d) TP 103

3. Performa maintained in the zonal power control organization for the statement of engine failures, unusual occurrences and causing damages to locos like CRO and Stallings. ( c )
a) TP 101 b) TP 106
c) TP 104 d) TP 103

4. Performa maintained in the zonal power control organization for the statement of transfer of locos and movements, dead loco movement, link causality etc ( b )
a) TP 101 b)TP 106
c) TP 104 d)TP103

5. While preparing power plan section wise bare requirement [outage] is worked out basing on average utilization of the last ___ months over the section. ( c )
a) 12 b)03
c) 06 d)24

6. Basing on the power plan the distribution of locomotives to division ___ percent is taken for heavy schedules . ( b )
a)05 b)10
c)15 d)20

7. Basing on the power plan the distribution of locomotives to division ___ percent is taken minor schedules. ( b )
a)05 b)10
c)15 d)20

8. Calculate the outage for a loco if worked from 10:00Hrs to 22:00Hrs ( c )
a) 1.0 b)0.8
c) 0.5 d)0.6

09. Goods locos used on coaching service due to late running of corresponding link is called) ( c )
a)Effective Outage b)Ineffective outage
c) Goods on passenger d)Passenger on goods

10. _____ is an assessment of the requirement of locomotive /diesel /electrical powers based on the number of trains and class of trains to run on particular section. ( c )
a) Outage b) Utilization
c) Power Plan d) Bare requirement

11. ____ is that portion of locos of particular shed offered for the use of traffic for hauling freight traffic) ( b )
a) Power Plan b) Outage
c) Bare requirement d) Utilization

12. The calculation of how an engine is utilized per day this is one of the aspects for assessing the efficiency of division / zone is called ( d )

a) Power Plan b) Outage
c) Bare requirement d) Utilization

13. How much percent to be less while calculating shed target outage for heavy repair and shops in case of WDG4 Locos. ( b )
a) 10% b) 05%
c) 20% d) 01%

14. How many methods can be used to calculate the load factor? ( b )
a) 1 b)2
c) 3 d)4

15.Load factor should not be exceed more than ___ % as fixed by railway board ( c )
a) 100% b) 75%
c) 60% d) 50%

16. While conducting EBD test, stopping and restarting capabilities to be conducted in ___ and ____ trials. ( b )
a) 1st and 2nd b) 2nd and 3rd
c) 1st and 3rd d) Only in 3rd

17. How many trials to be conducted to fix load factor? ( c )
a) 1 b) 2
c) 3 d) 4

18) Basic duty of Power controller ( d )
a) To arrange motive power b) To guide running staff
c) Planning of locos to home shed for maintenance d) All of the above

19) As per HRC, for the purpose of preparation links only running duty should not exceed for Mail/Express. ( b )
a) 7 hrs b) 8 hrs
c) 9 hrs d) 10 hrs

20) Crew links are to be prepared based on ( c )
a) Sanctioned strength b) Loco link
c) WTT d) Rake link

21) Running staff review should be carried out for every ( b )
a) Year b) Six months
c) Two years d) Three months

22) Loco performance statics “statement -18” describes ( a )
a) Engine hours b) Train & Engine kms
c) Fuel statistics d) Train & Engine hrs

23) Leave Reserve’ for Loco inspector is provided in the category of ( b )
a) LP goods b) LP Pass
c) LP Mail & Exp. d) CL

24) Time taken between two consecutive block stations is called ___ ( a )
a) Inter sectional running time b) Normal running time.
c) Minimum running time. D) Bare running time

*****END*****

# Official Language (Rajbhasha)

1. What is the official language of the India?
a) Telugu b) Hindi c) Marathi d) Hindi in Devnagari Script
[Answer: d]

2. In which article of the constitution of India Hindi has been declared as Official Language?
a) Article 120 b) Article 210 c) Article 343 d) 3Article 351
[Answer: c]

3. As per the provisions of the Constitution of India Official Language Hindi shall be written in which script?
a) Brahmi Script b) Sanskrit Script c) Roman Script d) Devnagari Script
[Answer: d]

4. Which forms of the numerals should be used in official purposes of the Union of India?
a) International form of Indian Numerals b) Devnagari numerals
c) Roman numerals d) None of the above
[Answer: a]

5. Hindi Day is celebrated in India on ..... every year.
a) 10th January b) 26th January c) 15th August d) 14th September
[Answer: d]

6. Why Hindi Day is celebrated in India on 14th September?
a) Constituent Assembly of India had adopted Hindi as Official Language of India on that day.
b) Ministry of Home Affairs, Department of Official Language had ordered to do so.
c) Railway Board had ordered to do so d) None of the above
[Answer: a]

7. In which article of the Constitution of India envisages setting up of Official Language Commissions?
a) Article 343 b) Article 344 c) Article 345 d) Article 346
[Answer: b]

8. Which article of the Constitution of India empowers the Indian states to choose their own Official Language?
a) Article 343 b)Article 351 c) Article 210 d) Article 345
[Answer: d]

9. If a state does not choose Official Language for itself from the languages spoken in the state what language will be its Official Language?
a) All the languages spoken in the state b) Hindi Language
c) English Language d) None of the above

[Answer: c]

10. The authoritative texts of all Bills to be introduced or amendments thereto to be moved in either House of Parliament or in the House or either House of the Legislature of a State shall be in which language?
a) In Hindi b) In English
c) In any of the Languages mentioned in 8th Schedule of the Constitution of India
d) None of the above
[Answer: b]

11. As per the prevailing provisions of the Constitution of India all proceedings in the Supreme Court and in every High Court shall be in..... language.
a) In Hindi b) In English
c) In any of the Languages mentioned in 8th Schedule of the Constitution of India
d) None of the above
[Answer: b]

12. In which article of the constitution of India the duty to promote the spread of the Hindi language assigned to the Union of India?
a) Article 120 b) Article 210 c) Article 343 d) Article 351
[Answer: d]

13. Which of the following languages not included in the VIII Schedule of the Constitution of India?
a) Chhattisgarhi b) Maithili c) Dogri d) Bodo
[Answer: a]

14. As per the provisions of the Constitution of India vocabulary should be drawn primarily from which language wherever necessary or desirable for enrichment of Hindi Language to serve as medium of expression for all the elements of the composite culture of India?
a) English Language b) Hindustani Language c) Lingua Franca d) Sanskrit Language
[Answer: d]

15.In which article of the Constitution of India the provision contains that if a Member of Parliament does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?
a) Article 120 b) Article 210 c) Article 343 d) Article 351
[Answer: a]

16. In which article of the Constitution of India the provision regarding the language to be used in parliament has been contained.
a) Article 120 b) Article 210 c) Article 343 d) Article 351
[Answer: a]

17. In which article of the Constitution of India the provision regarding the language to be used in state legislatures has been contained.
a) Article 120 b) Article 210 c) Article 343 d) Article 351
[Answer: b]

18. In which article of the Constitution of India a provision contains that if a Member does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?
a) Article 120 b) Article 210 c) Article 343 d) Article 351
[Answer: b]

19. In clause-3 of which article of the Constitution of India empowers the parliament to make rule regarding continuation of the use of English language even after the expire of 15 years of the commencement of the constitution.
a) Article 343 b) Article 344 c) Article 348 d) Article 351
[Answer: a]

20. In which article of the Constitution of India a provision to constitute Official Language Commission at the expiration of five years from the commencement of the Constitution and thereafter at the expiration of ten years from such commencement has been envisaged.
a) Article 120 b) Article 210 c) Article 344 d) Article 348
[Answer: c]

21. The 1st Official Language Commission has been constituted on 7th June 1955 as per the provisions of the Constitution of India. Who was the Chairman of this commission?
a) K. M. Munshi b) Gopal Swami Ayengar c) B. G. Kher d) Govind Vallabh Pant
[Answer: c]

22. Who was the Chairman of the 2nd Official Language Commission?
a) Lal Bahadur Shastry b) Guljarilal Nanda c) Smt. Indira Gandhi d) None of the above
[Answer: d]

23. What is the Official Language of Unioin of India
a) Hindi in Devnagari Script b) Hindi c) Sanskrit d) None of these
[Answer: a]

24. On which date part XVII of the Constitution was passed in Parliament
a)12.09.1949 b)14.09.1949 c)15.09.1949 9)21.09.1949
[Answer: b]

25. When was official language act 1963 passed
a)10.05.1963 b)10.05.1964 c)10.05.1965 d)10.05.1966
[Answer: a]

26. When was official language Act 1963 ammended
a)1963 a)1965 c)1967 d)1969
[Answer: c]

27. Union of India is classified into ----------Regions under Official Language Rules
a) A & B Regions a) C & D Regions c) A,B & C Regions d) None of these
[Answer: c]

28. When is “Hindi Day” celebrated every year
a) November 14 b) September 14 c) Noveember 21 d) September 21
[Answer: b]

29. According to official language rules, under which region Andaman and Nicobar islands come?
a) Region ‘A’ b) Region ‘B’ c) Region ‘C’ d) None of these
[Answer: a]

30. Which is the only Union territory classified under region ‘B’
a)Union territory of Chandigarh b)Union territory of Daman & Dieu
c) Pondicherry d) None of these
[Answer: a]

31. What is the official language of Arunachal Pradesh
a)Mizo b)English c)Hindi d) None of these
[Answer: b]

32. What is the act passed to give legal form to the assurances given to Non-Hindi speaking people?
a)Official Language Act (amended)-1967 b)Official Language Act (amended)-1969
c)Official Language Act (amended)-1965 d) None of these
[Answer: a]

33. From when did the section3(3) of official languages act take effect?
a)26.01.1961 b)26.01.1963 c)26.01.1965 d)26.01.1967
[Answer: c]

34. In which part of the constitution are the articles 343-351 that give information about Official Language available?
a)Part XV b)Part XVI c)Part XVII d)Part XVIII
[Answer: c]

35. Maximum how many Artists can participate in Hindi drama competitions?
a) Maximum 10 artists b) Maximum 15 artists
c) Maximum 18 artists d) Maximum 21 artists
[Answer: b]

36. How many inspections in a month are mandatory for Rajbhasha Adhikari of railways
a) One inspection per month b) Two inspections per month
c) Three inspections per month d) Four inspection per month
[Answer: a]

37. At present how many languages are enlisted in the Eighth schedule of the constitution
a)20 b)21 c)22 d)23
[Answer: c]

38. In which article is the provision regarding OL policy available in part V of the constitution
a) Article 120 b) Article 343 c) Article 344 d) None of these
[Answer: a]

39. Name the article in which the provision of the Eighth schedule of the Constitution is available
a) Article 120 b) Article 343 c) Article 344 d) Article 344 (1) & 351
[Answer: d]

40. When was the Official Language Rules passed?
a)1974 b)1975 c)1976 d) None of these
[Answer: c]

41. How many articles are there in part XVII of the Constitution?
a) 7 b) 8 c) 9 d) 10
[Answer: c]

42. In compliance of article 344 when was the official language commission formed in the year?
a) 1955 b) 1956 c) 1957 d) 1958
[Answer: a]

43. Who was the first chairman of the Official Language Commission?
a) B.G.Kher b) G.B.Pant c) Lal Bahadur Shastri d) None of these
[Answer: a]

44. Who was the first chairman of the committee which was formed on the recommendation of the official language commission
a) B.G.Kher b) G.B.Pant c) Lal Bahadur Shastri d) None of these
[Answer: b]

45. As per the constitution, who is translating the statutory Rules, Regulations and Orders?
a)Law ministry b) Home ministry c) HRD ministry d) None of these
[Answer: a]

46. Which Official Language Rule of 1976, mentions about the working knowledge of the Officer/ Employee?
a) Rule-8 b) Rule-9 c) Rule-10 d) None of these
[Answer: c]

47. Which article comes under part VI?
a) Article 120 b) Article 343 c) Article 344 d) Article 210
[Answer: d]

48. Who chaired the first railway Hindi Salahkar Samiti constituted in 1973?
a) Sri Lalit Narayan Mishra b) Sri B.G.Kher c) Sri G.B.Pant d) Sri Lal Bahadur Shastri
[Answer: a]

49. Who was the chairman of the parliamentary committee on official language constituted in the year 1976?
a) OM Mehta b) Sri B.G.Kher c) Sri G.B.Pant d) Sri Lal Bahadur Shastri
[Answer: a]

50. In which year the post of Hindi Asst. was created in General Branch of Railway Board in compliance of president's order 1952?
a) 1952 b) 1953 c) 1954 d) 1955
[Answer: a]

51. In which year the Hindi translation of Railway Budget was prepared and who was the Railway Minister
a) 1956- Lal Bahadur Shastri b) 1956- G.B.Pant
c) 1957- B.G.Kher d) 1957- L.M.Gupta
[Answer: a]

52. In which year Hindi (Parliament) section was established in Railway Board
a) 1956 b) 1958 c) 1960 d) None of these
[Answer: c]

53. a) Region'A' b) Region'B' c) Region'C' d) None of these
[Answer: a]

54. The state of Jarkhand comes under which Region?
a) Region'A' b) Region'B' c) Region'C' d) None of these
[Answer: c]

55. Which sub-committee of the parliamentary committee on official language inspects Railway Ministry
a) First sub-committee b) Second sub-committee
c) Third sub-committee d) Fourth sub-committee
[Answer: d]

56. What is the scheme implemented by Railway Board for doing work in Hindi
a) Rajbhasha individual cash award scheme b) Rajbhasha group cash award scheme
c) Rajbhasha Samman award scheme d) None of these
[Answer: a]

57. What is the expansion for OLIC used by department of official language?
a) Official Language Implementation committee
b) Oriental Language Implementation committee
c) Other Languages Improvement committee
d) None of these
[Answer: a]

58. How many Hindi courses are prescribed for central government employees?
a)One b)Two c)Three d)Four
[Answer: d]

59. Which is the elementary Hindi course prescribed for central government employees?
a) Praveen b) Pragya c) Parangat d) Prabodh
[Answer: d]

60. Who is the chairman of central Hindi Committee?
a) Prime Minister b) Home Minister c) President of India d) Vice President
[Answer: a]

61. Which committee reviews the progress made in the propagation of Hindi in particular ministry/ department?
a) Hindi Salahkar Samiti b)Parliamentary Committee
c) Official Language Committee d) None of these
[Answer: a]

62. When was the present parliamentary committee on official language constituted?
a) September 1975 b) January 1975 c) September 1976 d) January 1976
[Answer: d]

63. How many members are there in the committee of parliamentary on official Language?
a)21 b)25 c)27 d)30
[Answer: d]

64. How many Lok Sabha members will be there in the committee of parliamentary on official language?
a)21 b)25 c)27 d) 20
[Answer: d]

65. At present, how many sub-committees are there in the parliamentary committee on official language
a) 2 sub-committees b) 3 sub-committees c) 4 sub-committees a) 5 sub-committees
[Answer: b]

66. What is the main duty of the committee of parliament on official language?
a) To review the progressive use of Hindi
b) To review the expenditure incurred for implementation of Hindi
c) To review the regions based on use of Hindi
d) None of these
[Answer: a]

67. Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities
a) Senior most central government officer of the city
b) Senior most state government officer of the city
c) Senior most railway officer of the city
d) None of these
[Answer: a]

68. What is the periodicity of the meetings of Official Language Implementation Committee?
a) once in 3 months b) once in 6 months c) once in 9 months d) once in 12 months
[Answer: a]

69. What is the periodicity meeting of Town Officials Language Implementation Committee?
a) once in 3 months b) once in 6 months c) once in 9 months d) once in 12 months
[Answer: b]

70. Who prepares the annual program on Official Language?
a) Ministry of Home Affairs b) Ministry of LAW
c) Ministry of HRD d) None of these
[Answer: a]

71. What are the Hindi courses prescribed for central government employees
a) Prabodh & Praveen b) Praveen & Pragya
c) Praveen, Pragya & Parangat d) Prabodh, Praveen, Pragya and Parangat
[Answer: d]

72. Which is the final Hindi course prescribed for Clerical Cadre Employees Of Central Government
a) Praveen b) Pragya c) Parangat d) Prabodh
[Answer: c]

73. What are the training facilities available to a central government employee to get trained in the Hindi courses
a) Regular b) Intensive c) Correspondence and Private d) All of these
[Answer: d]

74. How many times the regular Hindi exams are conducted in a year?
a) One Time b) Two Times c) Three Times d) Four Times
[Answer: b]

75. In which months regular Hindi examinations are conducted
a) April and October b) May and November c) June and December d) None of these
[Answer: b]

76. Who are eligible to be trained in the Hindi courses
a) All the central government employees b) All the central government employees in class III
c) All the central government employees in class III and above officials d) None of these
[Answer: c]

77. Name the newly introduced course in Hindi by Hindi teaching scheme?
a) Praveen b) Pragya c) Parangat d) Prabodh
[Answer: c]

78. Which course a category 'C' employee required to be trained
a) Praveen b) Pragya c) Parangat d) Prabodh
[Answer: b]

79. From which course a category 'D' employee required to be trained
a) Praveen b) Pragya c) Parangat d) Prabodh
[Answer: d]

80. What is the Lumpsum award for passing pragya?
a) Rs.1200 b) Rs.1600 c) Rs.2000 d) Rs.2400
[Answer: d]

81. How many officers/ employees are warded every year from southern railway under Railway Board's Rajbhasha individual cash award scheme
a) Five b) Six c) Seven d) Eight
[Answer: d]

82. How many first prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?
a) Five members (Rs.2000/-) each employee
b) Three members (Rs.3000/-) each employee
c) Two members (Rs.5000/-) each employee
d) None of these
[Answer: c]

83. How many second prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?
a) Five members (Rs.2000/-) each employee
b) Three members (Rs.3000/-) each employee
c) Two members (Rs.5000/-) each employee
d) None of these
[Answer: b]

84. How many third prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?
a) Five members (Rs.2000/-) each employee
b) Three members (Rs.3000/-) each employee
c) Two members (Rs.5000/-) each employee
d) None of these
[Answer: a]

85. In which order name, designation and sign boards are to be exhibited?
a) 1. Regional Language 2. Hindi and 3. English
b) 1. Hindi 2. English and 3. Regional Language
c) 1. English 2. Hindi and 3. Regional Language
d) None of these
[Answer: a]

86. In which order the forms used by public are to be prepared
a) 1. Regional Language 2. Hindi and 3. English
b) 1. Hindi 2. English and 3. Regional Language
c) 1. English 2. Hindi and 3. Regional Language
d) None of these
[Answer: a]

87. In which order rubber stamps are to be prepared
a) Hindi- English bi-lingual form-one line Hindi and one line English
b) English - Hindi bi-lingual form-one line English and one line Hindi
c) Both a and b d) None of these
[Answer: a]

88. What is the Lumpsum award for passing Hindi type writing examination by private study?
a) Rs.1200 b) Rs.1600 c) Rs.2000 d) Rs.2400
[Answer: b]

89. What is the foreign language included in the Eighth schedule
a) English b) Bhutanese c) Nepali d)Russian
[Answer: c]

90. Who is the chairman of the Divisional Official Language Implementation Committee?
a) Sr.DPO b) ADRM c) DRM d) Senior Rajbhasha Adhikari
[Answer: c]

91---------ministry/ office is conducting the exams under Hindi Teaching Scheme for the central government employees
a) Law ministry b) Home ministry c) HRD ministry d) None of these
[Answer: b]

92. Who is eligible for Lumpsum award
a) Those employees who pass the Hindi exams by more than 95%
b) Those employees who pass the Hindi exams by more than 85%
c) Those employees who pass the Hindi exams by private efforts
d) None of these
[Answer: c]

*****END*****

# OBJECTIVE TYPE QUESTIONS OF RCD FOR CLI EXAMINATION

1. Abbreviation for RCD — Ans. ( c )

   a) Railway Customer Depot
   b) Regional customer depot
   c) Railway consumer depot
   d) Regional consumer depot

2. Oil used in RCD is — Ans ( c )

   a) Petrol
   b) Diesel
   c) HSD
   d) Petrol & Diesel

3. The Suppliers will prepare a monthly consolidated statement as per Form — Ans (a)

   a) HSD-1
   b) HSD-4
   c) HSD-5
   d) HSD-6

4. RTT means — Ans (d)

   a) Road Tank trucks
   b) Railway truck tanks
   c) Regional truck tanks
   d) Road Truck tanks

5. In case of supply of HSD oil by RTTs, particulars should be furnished — Ans (d)

   a) RTT No. & carrying capacity
   b) Net quantity loaded in litres and temperature at the time of loading
   c) HSD oil density and date and time of loading
   d) All the above

6. HSD-1 will prepare in — Ans (c )

   a) Single
   b) Duplicate
   c) Triplicate
   d) Quadruplicate

7. Supply of HSD to RCD/ADB is by — Ans (a)

   a) RTTs
   b) Tank wagons
   c) Both
   d) Pipe line

8. Register maintained by Depot official to deal with Oil tanks received Ans (a)

a) HSD-2
b) HSD-4
c) HSD-5
d) HSD-10

9. HSD-2 will be prepared in Ans (b)

a) Single
b) Duplicate
c) Triplicate
d) Quadruplicate

10. RTT should not be accepted if the shortage is on Ans (b)

a) Lower side
b) Higher side
c) Both
d) None

11. On placement of RTTs at level platform, it should be allowed to settle Ans (c )

for a period of

a) 5 min
b) 10 min
c) 15 min
d) 30 min

12. How many persons are allowed to climb on RTT while taking dip Measurement? Ans (c )

a) No person
b) One person
c) Two persons
d) Three persons

13. Decanting of RTT after sun set Ans (c)

a) Allowed
b) Not allowed
c) Allowed in exceptional circumstances
d) Allowed by CLI/RCD

14. Measurement of quantity of oil in RTT will be done by Ans (a)

a) Dip rod or tape
b) Flow meter
c) Dip gauge
d) All the above

15. Tests to be conducted for oil before decanting are Ans (d)

    a) Density test
    b) Crackling test
    c) Temperature test
    d) All

16. Crackling test for oil before decanting to be done to find out Ans (a)

    a) Moisture content
    b) Density of oil
    c) Quantity of oil
    d) Colour of oil

17. What test to be done to find out water contamination in HSD oil before decanting ? Ans (b)

    a) Density test
    b) Crackling test
    c) Temperature test
    d) Colour test

18. Measurement dips/tapes to measure quantity of oil in RTT will be certified Ans (c )

    a) Sr.DME/P
    b) Dy.CME/R&L
    c) Dept of weights and measurements
    d) Oil supply company

19. The quantity of HSD oil as invoiced should be recorded in Ans (a)

    a) HSD-4
    b) HSD-6
    c) HSD-5
    d) HSD-2

20. Diversion of Tank wagons will be ordered by Ans (c )

    a) Sr.DME
    b) Oil company
    c) Dy.CME/R&L
    d) Incharge RCD

21. Form No. of Diversion memo of tank wagon Ans (c )

    a) F-1
    b) F-2
    c) F-3
    d) F-4

22. The register maintained at fuelling installation point for each storage tank is — Ans (c )

    a) HSD-2
    b) HSD-3
    c) HSD-4
    d) HSD-6

23. HSD – 4 shows — Ans (d)

    a) Receipts of HSD
    b) Issues of HSD
    c) Balance of HSD
    d) All

24. Daily stock register of HSD at RCD is — Ans (d)

    a) HSD-1
    b) HSD-3
    c) HSD-4
    d) HSD-5

25. RCD incharge must take the storage tank dip readings every day at the time of — Ans (c )

    a) 8.00 AM and 14 hrs
    b) 10.00 AM and 16 hrs
    c) 8.00 AM and 17 hrs
    d) 18.00 hrs

26. Samples of each storage tank for water contamination test to be drawn at least once in — Ans (b)

    a) 15 days
    b) 1 month
    c) 2 months
    d) Every day

27. Cleaning and painting of storage tank at RCD is to be undertaken once in — Ans (d)

    a) One year
    b) Two years
    c) Three years
    d) Four years

28. Cleaning and painting of storage tanks at RCD will be done by — Ans (c)

    a) Sr.DME
    b) Dy.CME/R&L
    c) Oil company
    d) CLI/RCD

29. Issue of HSD oil to the locomotive is to be invariably undertaken through Ans (b)

a) Fuel oil gauge
b) Flow meter
c) Dip reading
d) Dip tapes

30. Permitted percentage of variation between Book balance and ground Balance at RCD is Ans (a)

a) 1%
b) 2%
c) 3%
d) 4%

31. Dip stick is used to measure at RCD is Ans (c )

a) Issue of HSD
b) To take readings of storage tanks
c) Tank wagon/Tank lorry
d) Water contamination

32. Flow meter is used to measure at RCD is Ans (a)

a) Issue of HSD
b) To take readings of storage tank
c) Tank wagon/Tank lorry
d) Density of HSD

33. Dip tape is used to measure at RCD is Ans (b)

a) Issue of HSD
b) To take readings of storage tank
c) Tank wagon/Tank lorry
d) Density of HSD

34. Calibration of flow meter at RCD will be done Ans (a)

a) Once in every year
b) Twice a year
c) Once in six months
d) Twice in six months

35. Codal life of flow meter is Ans (d)

a) 12 years
b) 13 years
c) 14 years
d) 15 years

36. Permitted ceiling of handling loss at RCD — Ans (a)

a) 0.1%
b) 0.01%
c) 0.001%
d) 1%

37. HSD oil issued to all Diesel locomotives is called — Ans ( a)

a) Traction use
b) Non traction use
c) Diesel use
d) All

38. HSD oil issued to generators of ARTs is called — Ans (b)

a) Traction use
b) Non traction use
c) Generator use
d) ARTs use

39. Fuel issued to Locomotive will be made on Fuel voucher no. — Ans (d)

a) F-2
b) F-6
c) F-10
d) F-12

40. F12 voucher should be made in — Ans ( c )

a) Single
b) Duplicate
c) Triplicate
d) Quadruplicate

41. Daily stock register at RCD is — Ans (b)

a) HSD-4
b) HSD-5
c) HSD-6
d) HSD-10

42. Monthly statement of issue of HSD oil to running engines — Ans (c )

a) HSD-1
b) HSD-4
c) HSD-6
d) HSD-10

43. HSD-6 will be made as — Ans (d)

a) Single
b) Duplicate
c) Triplicate
d) Quadruplicate

44. Monthly statement of miscellaneous issues Ans (c )

a) HSD-4
b) HSD-6
c) HSD-7
d) HSD-10

45. HSD-7 will be made as Ans (b)

a) Single
b) Duplicate
c) Triplicate
d) Quadruplicate

46. Monthly returns showing receipts, issues and balance of HSD oil Ans (c )

a) HSD-5
b) HSD-6
c) HSD-9
d) HSD-12

47. Monthly summary of oil issued to maintenance of locos under various schedules, cleaning of filters, etc., Ans (d)

a) HSD-4
b) HSD-6
c) HSD-10
d) HSD-12

48. Fuel checkers daily diary Ans (d)

a) HSD-1
b) HSD-5
c) HSD-9
d) HSD-10

49. In a year Power officers should inspect RCD Ans (c )

a) 2 times
b) 4 times
c) 3 times
d) 6 times

50. Loco Inspector can inspect RCD in a year Ans (c )

a) 4 times
b) 6 times
c) Any number of times
d) 12 times

51. How many kilometers distance is free delivery zone for supplying of RTT by Oil company to Railway? Ans (b)

a) 19 kms
b) 29 kms
c) 39 kms
d) 49 kms

52. Stock adjustment of RCD can be done by Ans (a)

a) Stock verifier
b) Accounts officer
c) Oil company
d) CLI/RCD

53. Capacity of RCD/PAU is Ans (b)

a) 284 KL
b) 374 KL
c) 424 Kl
d) 590 KL

54. Plate used for crackling test Ans (b)

a) Cold
b) Hot
c) Both
d) None

55. After the loco is fuelled the LP/Shunter should sign in Ans (a)

a) HSD-10 & F-12
b) HSD-10 & F-10
c) HSD-12 & F-10
d) HSD-12 & F-12

56. Monthly consolidated statement prepared by suppliers Ans (a)

a) HSD-1
b) HSD-4
c) HSD-6
d) HSD-9

57. Placement memo of tank wagon Ans (c)

a) Form No.3
b) Form No.5
c) Form No.7
d) Form No.9

58. All HSD oil tank wagons booked to the depot as advised from the supplier on HSD-1 be entered in — Ans (b)

a) HSD-1
b) HSD-2
c) HSD-3
d) HSD-4

59. Statement of enroute shortages during the month — Ans (b)

a) HSD-1
b) HSD-3
c) HSD-4
d) HSD-5

60. Summary of all storage tank registers (HSD-4) is — Ans (b)

a) HSD-4
b) HSD-5
c) HSD-6
d) HSD-9

61. Issuing of HSD is made for other than Loco purpose are prepared in — Ans (c )

a) HSD-4
b) HSD-7
c) HSD-8
d) HSD-10

62. Total receipts , issues and balance of oil during the month worked out and posted in the statement — Ans ( c)

a) HSD-6
b) Hsd-4
c) Hsd-9
d) Hsd-10

63. The stock verification of each RCd is to be undertaken by Branch officer of Mechanical department of division is — Ans (a)

a) Once in a year
b) Once in 6 months
c) Once in 3 months
d) Once in a month

64. JS/SS level officers of Mechanical department should check RCD at an interval of — Ans (b)

a) Once in a year
b) Twice in a year
c) Thrice in a year
d) 4 times in a year

65. Stock verifier of the Accounts department should check RCD at an interval of — Ans (a)

a) Yearly once
b) Yearly twice
c) Yearly thrice
d) Yearly four times

66. Write off sanctioning authority for the difference of stock on ground to book balance up to 0.05 % is — Ans (c )

a) ADME
b) Sr.DME
c) DRM/ADRM
d) CLI/RCD

67. Write off sanctioning authority for the difference of stock on ground to book balance from 0.05 to 0.1 % age — Ans (d)

a) ADME
b) Sr.DME
c) DRM/ADRM
d) COM

68. Form No. of oil tank testing at RCD is — Ans (d)

a) HSD-4
b) HSD-5
c) HSD-10
d) HSD-11

69. Form No. of oil tank wagons invoiced but not received during the Month at RCD is — Ans (d)

a) F-12
b) F-10
c) F-7
d) F-6

70. If the consumption of HSD oil up to 15 KL per day, the RCD called as — Ans (a)

a) Minor installation
b) Medium installation
c) Major installation
d) All of the above

71. Consumption of HSD oil at RCD is 15.1 KLto 30 KL per day is called as — Ans (b)

a) Minor installation
b) Medium installation
c) Major installation
d) None of the above

72. Consumption of HSD oil at RCD is 30 KL and above per day is called as Ans (c)

a) Minor installation
b) Medium installation
c) Major installation
d) None of the above

73. Stock verification inspection at RCD by Sr.DME will be done in the month of Ans (b)

a) March
b) April
c) November
d) December

74. Stock verification inspection at RCD by ADME/DME will be done in the month of Ans ( c )

a) January & December
b) March & August
c) August & December
d) November & December

75. Stock verification and inspection at RCD by CLI/Fuel will be done in the month of Ans ( b)

a) January, April & August
b) February, June & October
c) March, July & November
d) April, August & December

76. Based on the consumption of HSD oil, RCD/PAU is Ans (a)

a) Major installation
b) Medium installation
c) Minor installation
d) All the above

*****END*****

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# Diesel Locomotives - Multiple Choice Questions

| | | |
|---|---|---|
| 1 | What is the minimum Head light Focusing distance required in the locomotives provided with electrical head light?<br>a) 100 meters b) 1000 meters<br>c) 2000 meters d) 250 meters and above | d |
| 2 | What is the Fuel oil tank capacity in WDP1 locomotive in litres?<br>a) 4000 b) 5000<br>c) 3000 c) 2000 | c |
| 3 | When OPS drops or LLOB trips, the engine will_____.<br>a) Raise b) Shutdown<br>c) Comes to Idle d) Hunting | b |
| 4 | Expressor lube oil pump is driven by_____.<br>a) Gear b) Chain<br>c) Motor d) Belt | b |
| 5 | The exhaust manifold is connected to _____part of the TSC.<br>a) Gas Inlet Casing b) Intermediate Casing<br>c) Turbine Casing d) Blower Casing | a |
| 6 | One of the following is the equipment in Nose compartment<br>a) MR1 b) MR2<br>c) Control air pressure reservoir d) All the above | c |
| 7 | How many Power Contactors are available in WDG4 Locomotive?<br>a) 7 b) 9<br>c) 8 d) 0 | d |
| 8 | What is the Lube oil capacity (in litres) in WDP1 locomotives?<br>a) 760 b) 910<br>c) 1100 d) 1457 | a |
| 9 | If white smoke is emitting from exhaust chimney, what could be the reason?<br>A) Water mixed with fuel oil b) Governor oil mixed with fuel oil<br>c) Lube oil mixed with fuel oil d) None of these | a |
| 10 | What is the effective Rundown test timing (in seconds) of NAPIER Turbo? In seconds<br>a) 120 to 200 b) 90 to 180<br>c) 25 to 65 d) 200 to 280 | c |

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| | | |
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| 11 | Water leaking continuously from water telltale pipe<br>a) Dummy it and work further b) Fail the loco<br>c) Do fast pumping d) Work on lower notches | b |
| 12 | Cooling Water capacity in WDM2 locomotive is_____ liters.<br>a) 900 b) 910<br>c) 1300 d) 1210 | d |
| 13 | The rundown test of NAPIER Turbo is to be conducted on _____notch.<br>a) Idle b) 4<br>c) 6 d) 2 | a |
| 14 | During one of the following occasions Hot engine alarm indication will get<br>a) Continuous 8th notch working b) Excess load<br>c) Water pump not working d) Full water in expansion tank | c |
| 15 | The lube oil consumption for every 100 liters consumption of fuel on WDM2/WDG4 is<br>a) 1.7/1.0 ltrs b) 1.5/0.5 ltrs<br>b) 1.6/0.7 ltrs c) 1.0/0.3 ltrs | b |
| 16 | ……..type of speedometer is available onWDG4.<br>a) Mechanical b) Radar Sensor<br>c) Electrical d) Electronic | b |
| 17 | The more Oxygenated Air is required for better_____.<br>a) Control air pressure b) Combustion of fuel<br>c) Braking d) Cooling | b |
| 18 | Hot engine alarm (HEA) will come at _____degrees centigrade in WDG3A locos.<br>a) 60 b) 70<br>c) 90 d) 80 | c |
| 19 | Electro Pneumatic Governor is located in<br>a) Expressor room b) Radiator room<br>c) Nose compartment d) Rear compartment | c |
| 20 | During the MR air pressure efficiency test ___kg /cm2 pressure should be created within_____ minutes.<br>a) 1.0 , 7 b) 1.5 , 6<br>c) 0.9 , 8 d) 0.7 , 5 | d |
| 21 | The number of Brake cylinders provided on WDM2 locomotive<br>a) 6 b) 8<br>c) 10 d) 12 | b |

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22 When there is current difference of ……..Amps between two traction motors in a group of Traction motors WSR will pick up. b

a) 200 b) 125
c) 100 d) 150

23 Fuel oil pressure is not building up though the FPM is working & sufficient fuel oil is available in tank. c

a) CK1 and CK2 not picked up b) GF contactor is not picked up
c) Fuel booster pump not working d) Fuel pump contactor not picked up

24 Lube oil Filter drum is located in_____. d

a) Nose compartment b) Generator room
c) Engine block d) Radiator room

25 How many kinds of Brakes are provided on Diesel locomotive WDM2? a

a) 5 b) 10
c) 11 d) 9

26 GFC not picking up in motoring due to a

a) CK1welded b) ECS run
c) Rev. at motoring d) Throttle notch 1

27 LWS is connected to b

a) Water left side return header b) Water expansion tank
c) Water right side return header d) All the above

28 Main Reservoir (compressed air pressure) Unloading will takes place at_____kg /cm2. c

a) 8 b) 9
c) 10 d) 11

29 N 1 Reducing valve is located in c

a) Radiator room b) Expressor room
c) Nose compartment d) Rear compartment

30 If the VRR fuse is fused, the_____indication will come. d

a) CK1 and CK2 contactor tips welded b) Battery over charging
c) Green lamp and engine idle d) Battery discharge

31 From where the control air pressure will get air pressure_____. b

a) MR2 b) MR1
c) BKTs d) J filter

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| 32 | Lube oil dipstick gauge of WDG3A is having _____ liters capacity.<br>a) 400 b) 380<br>c) 600 d) 500 | c |
| 33 | Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be_____.<br>a) ERF not closed b) R1 and R2 not picked up<br>c) GFC not picked up d) FPC not picked up | d |
| 34 | On what notch the rundown test of ABB Turbo is to be conducted?<br>a) Idle b) 2<br>c) 3 d) 4 | d |
| 35 | Reduction in BP pressure causes _____.<br>a) Brakes release b) Brakes slow release<br>c) Brakes application d) MR pressure increasing | c |
| 36 | Railway Board has made re - nomenclature of the Diesel locomotives in which the last two digits denotes<br>a) Lube oil capacity b) Fuel oil capacity<br>c) Horse Power d) Weight of the loco | c |
| 37 | _____ Number of brake blocks are provided on WDM2.<br>a) 16 b) 24<br>c) 32 d) 22 | b |
| 38 | WDG4 Engine idle RPM<br>a) 469 b) 369<br>c) 269 d) 360 | c |
| 39 | The Fuel oil crossover flexible pipe is located in<br>a) Radiator room b) Nose compartment<br>c) Power takeoff end d) Free end | c |
| 40 | In WDM2, having IRAB brake system the VA1B valve is located in/at<br>a) Nose compartment b) LPs cab<br>c) Long hood control stand d) None of the above | d |
| 41 | After cooler cooled air in air inlet casing is also called as_____.<br>a) Control air pressure b) Vacuum control air pressure<br>c) HS4 pressure d) Booster air pressure | d |

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| 42 | In WDG4 locos Lube oil Cooler is located in_____.<br>a) Radiator room b) Expressor room<br>c) Generator room d) Under truck | b |
| 43 | Lube oil Bypass valve in WDM2 locos is set at _____ psi.<br>a) 50 b) 40<br>c) 30 d) 20 | d |
| 44 | The compressed air enters to MR1 tank through<br>a) MR Safety valve b) MR2<br>c) Cooling Coil d) 3 / 4" cut out cock | d |
| 45 | Inter cooler safety valve is set at_____ psi., pressure.<br>a) 100 b) 80<br>c) 60 d) 40 | c |
| 46 | In WDG3A locomotives 3/4" COC(BP COC) is located in/at<br>a) Nose compartment b) LP cab<br>c) Short hood control stand d) None of the above | a |
| 47 | Air pressure Cooling coils in WDG4 is located at<br>a) Under truck b) Engine block<br>c) Radiator room d) Expressor room | c |
| 48 | Lube oil dip stick gauge capacity in WDG4 locos is _____liters.<br>a) 400 b) 550<br>c) 625 d) 700 | c |
| 49 | The combined unit of Exhauster and Compressor is called<br>a) Impellor b) Expressor<br>c) Super charger d) Processor | b |
| 50 | ABB turbo super charger effective Rundown time_____in seconds.<br>a) 200 to 280 b) 120 to 200<br>c) 25 to 65 d) 90 to 180 | b |
| 51 | Where 28VB control valve is is located?<br>a) Engine block b) Back panel<br>c) Short hood control stand d) Long hood control stand | c |
| 52 | In WDM2 locomotives, during cranking, if Normally Closed Interlock of SAR is not getting closed , the result will be _____<br>a) Throttle will not respond b) Load meter will not respond<br>c) Engine will crank and fire but not hold d) Engine will not fire | c |

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| | | |
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| 53 | In WDM2 engine, the Water pump is driven by<br>a) Motor b) Pulley<br>c) Gear d) Belts | c |
| 54 | On WDG3A high adhesion bogie the loco body weight is supported on bogie frame through<br>a) 4 side bearers / load pads b) centre pivot<br>C centre pivot and side bearers d) side group springs | a |
| 55 | For WDG3A on each truck ……..no of horizontal hydraulic dampers are provided.<br>a) 5 b) 2<br>c) 8 d) 16 | b |
| 56 | …….is provided on WDG3A bogie to avoid run out of bogie from chassis.<br>a) center pivot b) side bearers<br>c) Shackles d) side stoppers | c |
| 57 | On WDG3A each truck is fitted with …… arrangement of traction motors.<br>a) LLR b) LRR<br>c) LRL d) uni directional i.e LLL&RRR | d |
| 58 | Now a days the wick pad type suspension bearing is replaced with ……..in new loco's.<br>a) Roller bearing b) Hanging type<br>c) lubrication with soft grease d) Higher quality lube oil | a |
| 59 | …….no traction motor will be defective in case continuous wheel slip with WSR1 in Series parallel and WSR3 in Parallel operating.<br>a) 1 b) 3<br>c) 4 d) 5 | c |
| 60 | To reset auto flasher ……is to be used.<br>a) SP1 b) SP2<br>c) SW1/SW2 d) GFOLR reset button | c |
| 61 | Whenever A9 is brought to emergency position action taken place in auto flasher system is<br>a) DMR de-energise b) BKT will come to bkaking<br>c) GFOLR will trip d) Flasher light will glow | a |
| 62 | Power contactors flutters due to<br>a) less magnetism b) Load meter defective<br>c) less control air pressure d) week batteries | c |

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| | | |
|---|---|---|
| 63 | The following may be used for fast charging of BP on WDG3A.<br>a) Release position of A9 b) foot pedal<br>c) SP1 d) SW1 | c |
| 64 | Whenever BP pressure drops below ……kg/cm2 other than A9 operation auto flasher will come in to action.<br>a) 4.1 b) 4.4<br>c) 4.3 d) 4.5 | b |
| 65 | In twin beam head lights ……..volts halogen lamps are used.<br>a) 72 b) 32<br>c) 24 d) 20 | c |
| 66 | In twin beam head light system in DC-DC convertor if one unit is defective the stand by unit can be brought into function by<br>a) operating change over switch on DC-DC converter b) By changing to other control stand<br>c) by replacing bulb d) none | a |
| 67 | If DMR not picking up in idle but on opening throttle to 2nd notch by pressing DMR if it is picking means<br>a) Week DMR b) TH & selector interlocks defective<br>c) Self interlocks defective d) PCS knocked out | b |
| 68 | In MCBG loco actuator /sensor unit is located at<br>a) inside engine block b) excitation panel<br>c) LP cab d) existing location of governor | d |
| 69 | In MCBG loco when shut down occurs due to over speed initiated by MCBG , it should be acknowledged by<br>a) Resetting push button b) OST test key switch<br>c) Power switch d) GFOLR reset button | a |
| 70 | In MCBG loco if sensor signals not coming or wire opens what will happen?<br>a) engine will shut down b) Engine will not fire<br>c) engine will not respond d) Load meter will not respond | a |
| 71 | The conventional electronic type excitation system is replaced with ……..in new loco's<br>a) Microprocessor controlled b) static type<br>c) shunt type d) self excitation | a |
| 72 | In WDG4 loco HP input to Traction motors is<br>a) 4000 b) 3726<br>c) 3100 d) 3900 | b |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 73 | In WDG4 loco compressor is cooled by | | | | | d |
| | a) | Nature | b) | Air | | |
| | c) | Oil | d) | Water | | |
| 74 | In WDG4 turbo is cooled by | | | | | c |
| | a) | Nature | b) | Air | | |
| | c) | Oil | d) | Water | | |
| 75 | In WDG4 power contactors are replaced with | | | | | d |
| | a) | FS contactors | b) | only relays | | |
| | c) | BKT/REV | d) | DC Link | | |
| 76 | In WDG4 traction motors are | | | | | b |
| | a) | DC | b) | AC | | |
| | c) | 50%AC and 50% DC | d) | Low voltage | | |
| 77 | In WDG4 (ECS) isolation switch is having …….no of positions. | | | | | b |
| | a) | 1 | b) | 2 | | |
| | c) | 3 | d) | 4 | | |
| 78 | While on run if airflow meter shoots up with jerk means | | | | | b |
| | a) | defect | b) | parting taken place | | |
| | c) | spring broken | d) | moisture in air | | |
| 79 | For quick charging of BP in WDG4 ……..is used. | | | | | d |
| | a) | SP1/SP2 | b) | SW1/SW2 | | |
| | c) | Foot pedal | d) | A9 (auto brake) release | | |
| 80 | In WDG4 hot oil detector is set at….degrees centigrade. | | | | | b |
| | a) | 100 | b) | 126 | | |
| | c) | 200 | d) | 124 | | |
| 81 | If GF contactor is fluttering after taking II transition check | | | | | d |
| | a) | GF relay | b) | P2 | | |
| | c) | S1 | d) | P32 | | |
| 82 | GR protects from | | | | | b |
| | a) | Nothing | b) | earth fault | | |
| | c) | hot engine | d) | melting of grids | | |
| 83 | OPS2 function is | | | | | d |
| | a) | to when OPS1 is defective | b) | To watch OPS1 | | |
| | c) | To watch fuel oil pressure | d) | to safe guard engine from low lube oil pressure on higher notches | | |

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84 When GFOLR resetting button is defective ……to be done. d

a) inform shed b) ask for R.E.
c) Use L rod d) reset manually

85 ……..brake is available only in WDP4. c

a) Computer brake b) vigilance brake
c) blended brake d) tread brake

86 Blended brake is mixture of b

a) Vacuum +Air b) Formation +Dynamic+ loco
c) Formation +Loco d) Dynamic +Loco

87 In WDP4 when the loco is moving in opposite direction to the reverser position…….will happen soon the speed increases to 5 kmph. a

a) Dynamic brake come into action b) alerter will come into function
c) power ground will take place d) loco will shutdown

88 Now a days the following item is removed on WDM2 loco's b

a) Transition switch b) Lube oil by pass valve
c) VCD system d) vacuum brake

89 While on run if SPM drops to zero and transition also drops it may be due to d

a) emergency brake b) ACP
c) Defect in mother card d) ADA dropped/ defective

90 When wheel is floated speed is restricted ……..kmph. b

a) 25 b) 30
c) 35 d) 40

91 WDM2 expressor is having …….couplings. a

a) Fast and flexible b) CBC and Baby
c) ABC and fast d) Universal and flexible

92 Excess Brake cylinder pressure can cause c

a) quick speed dropping b) train brakes not required
c) wheel skidding d) Dynamic brake not necessary



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93 If SAR coil is open circuited during cranking c

a) GR trips b) nothing will happen

c) OSTA trips d) Throttle will not respond

94 If CK1 bridge interlock defect ……trouble. a

a) not cranking b) not holding

c) ck1/ck2 fluttering d) not firing

95 If batteries are weak during cranking can be identified by b

a) battery ammeter b) fluttering of CK1,CK2

c) starting lamp d) smoke from bat-teries

96 While working on higher notches with full load if B.A.P. is repeatedly dropping and raising is called c

a) Sneeging b) Hunting

c) Surging d) None

97 In WDM2 GE governor loco, when stop switch is pressed ……..will be energised. c

a) ESR4 b) Clutch coil

c) stabilising coil d) SAR coil

98 On WDM2 if engine not cranking ……power contactor NCI to be checked. a

a) P22/S1 b) P21/S1

c) P22/S21 d) P22/S31

99 TDR in WDM3a (cranking circuit) is set at b

a) 1.5 minutes b) 1.5seconds

c) 2seconds d) 1second

100 During cranking if engine not holding may be due to d

a) CK1 bridge interlock b) MUSD

c) FPB d) OPS

101 FS21 and FS22 coils get supply through these breaker b

a) FPB b) MFPB

c) CCEB d) MCB

102 Stabilising and clutch coil get supply through these breakers. d

a) FPB b) CCEB

c) MCB d) MFPB

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| | | |
|---|---|---|
| 103 | ECC coil get supply through breaker. | a |
| | a) FPB b) CCEB<br>c) MCB d) MFPB | |
| 104 | For 10 minutes time gained by loco ……..ltrs. of fuel is allowed. | c |
| | a) 25 b) 35<br>c) 50 d) 60 | |
| 105 | In fuel oil system ……..type of filters are used. | d |
| | a) socks type b) foam type<br>c) mesh type d) paper type | |
| 106 | On WDM2 while working with full load on raising gradient ……liters of fuel will be consumed for an hour. | d |
| | a) 1000 b) 400<br>c) 380 d) 480 | |
| 107 | DMR picking up in idle but dropping on opening throttle means | c |
| | a) Week DMR b) DMR all interlocks defective<br>c) Self interlocks defective d) PCS knocked out | |
| 108 | CTR no is | d |
| | a) T500 b) T600<br>c) T700 d) T720 | |
| 109 | WDM2 Fuel glow rod gauge scale mesure in ltrs is | b |
| | a) 600 to 5000 b) 540 to 5000<br>c) 800 to 5000 d) 1000 to 5000 | |
| 110 | The only loco provided with two dipstick gauges on either side of the engine block to measure lube oil is | c |
| | a) WDM2A b) WDG3A<br>c) WDP4 d) WDG4 | |
| 111 | The oil pressure switch in wood ward governor loco is in | c |
| | a) engine block b) inside crank case<br>c) in built governor d) inside nose compartment | |
| 112 | In WDG4 engine cylinders are cooled by | c |
| | a) Water b) oil and water<br>c) super charged air and water d) air conditioning | |

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| | | |
|---|---|---|
| 113 | Conventional air maize oil bath filters are replaced with<br>a) baggie type b) paper filter type<br>c) cyclonic type d) mesh type filters | a |
| 114 | While working air brake passenger train if air leaking badly from FP angle cock do<br>a) close 1" C,O,C, b) Close leading FP angle cock<br>c) Close 3/4" C.O.C. d) Close 28VB C.O.C. | a |
| 115 | EMU and DHMU are provided with ……..couplings<br>a) CBC b) Automatic<br>c) Shacoo d) ABC | c |
| 116 | If sufficient vacuum is not available in expressor …….will take place.<br>a) train brakes will apply b) only loco brakes will apply<br>c) expressor will burn d) oil throw takes place | d |
| 117 | Breather valve provided on<br>a) Governor b) LP cab<br>c) expressor d) main generator | c |
| 118 | On modified (Rack)28LAV1 brake system conjunctional brakes takes place through<br>a) 28VB control valve b) C3W valve<br>c) VA1B valve d) none of these | b |
| 119 | In MU trailing loco during parting, trial position changes lead position in brake system through<br>a) A1 Differential pilot valve b) MU2B<br>c) VA1 release valve d) F1selector valve | d |
| 120 | Weak batteries causes<br>a) over charging b) Discharge<br>c) None d) Load meter will not respond | a |

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# QUESTION BANK
# FOR
# JE-II SELECTION

## Choose the right answer.

1. Current is collected from OHE to A.C.loco through ( )
   (a) Transformer
   (b) circuit breaker
   (c) pantograph
   (d) servo motor

2. Taps on autowinding of TFP are provided for ( )
   (a) speed control
   (b) protection from surges
   (c) shorting of windings
   (d) avoiding overloading of TFP

3. QOP relay is used to detect ( )
   (a) Earth fault in auxiliary circuit
   (b) Over current
   (c) Earth fault in power circuit
   (d) Surges

4. For converting a.c. to d.c., following equipment is used in locos ( )
   (a) Transformer
   (b) Smoothening reactor
   (c) Silicon Rectifier
   (d) Circuit breaker

5. Which one of the following is not a safety item ( )
   (a) ACP Unit
   (b) Hand brake
   (c) Head Light
   (d) Corridor Light

6. The maximum rpm of a Hitachi Traction Motor is ( )
   (a) 895 rpm (b) 1000 rpm (c) 1100 rpm (d) 1250 rpm

7. MVRH is a ( )
   (a) D.C.Motor
   (b) A.C.Motor
   (c) Universal Motor

8. Wheel slipping occurs ( )
   a) due to Down gradient
   b) due to poor brake power
   c) if applied tractive effort is more than adhesive weight of loco
   d) none of the above

9. KVA rating of TFP used in WAG-7 & WAP4 locos is ( )
   a) 3460 KVA
   b) 3900 KVA

c) 5400 KVA
d) 6000 KVA

10. In Traction Transformer ( )
a) A33-A0 is Auto Transfer Winding
b) A34-A0 is Primary Winding
c) a0 – a1 is Auxiliary Winding
d) All are correct

11. ARNO is used for ( )
a) cooling T.M.
b) converting 1Φ to 3 Φ a.c.
c) cooling TFP oil
d) converting a.c. to d.c.

12. For changing direction of loco movement, following is used ( )
a) CTF
b) Reverser
c) Shunting contactor
d) Pantograph

13. ( )
In WAG-7 loco is used
a) SL-30 b) SL-40 c) SL-42 d) None

14. Twin Beam Head Light bulb has twin filament of ( )
a) 100 and 110 watts
b) 100 and 120 watts
c) 100 and 90 watts
d) 80 and 100 watts

15. BA are used for powering ( )
a) ARNO convertor
b) Traction Motor (TM)
c) Cab heater
d) Auxiliary compressor (MCPA)

16. Hydrometer is used for measuring ( )
a) level of electrolyte in BA
b) total charge stored in BS
c) specific gravity of electrolyte
d) terminal voltage of BA

17. Maximum air pressure in electric loco brake cylinder with A9 application is ( )
a) 2.5 $kg/cm^2$
b) 3.5 $kg/cm^2$
c) 2.0 $kg/cm^2$
d) 5.0 $kg/cm^2$

18. Disturbance of neutral axis of rocker ring in a DC motor will result in ( )
    a) poor commutation
    b) increase in voltage
    c) jamming of bearing

19. Gear ratio of WAP4 loco is _____ ( )
    a) 18 : 14
    b) 23 : 58
    c) 17 : 57
    d) 16 : 65

20. Maximum allowed wheel dia variation in service ( )
    a) on same axle is 2.5 mm
    b) one same bogie is 8 mm
    c) Both (a) & (b)
    d) None

21. ( )
    The requisition No. for a N.S.item is
    a) S 1313
    b) S 1302
    c) S 1315
    d) S 1305

22. Maximum Tractive effort of a loco is the ( )
    a) maximum power developed by the loco
    b) maximum torque developed by the loco at 50 KMPH
    c) maximum starting torque developed by the loco without wheel slipping
    d) None is correct

23. Relay to detect abnormalities in TFP is ( )
    (a) QRSI
    (b) QOP
    (c) QLM
    (d) QOA

24. For protection of traction motors against over voltage, following relay is used ( )
    (a) QOP (b) Q20
    (c) QD (d) QRSI

25. AFL circuit works in case of ( )
    a) train parting
    b) chain pulling
    c) brake application
    d) both (a) & (b)

26. The insulation class of an auxiliary motor is ( )
    (a) H Class
    (b) B Class
    (c) F Class
    (d) C Class

27. Panto raising time is adjusted between ( )
    (a) 6 to 10 sec.
    (b) 5 to 10 sec.
    (c) 5 to 8 sec.
    (d) None

28. For creating vacuum required for pneumatic brake system following equipment is used ( )
    a) compressor
    b) exhauster
    c) VA-1B valve
    d) ARNO

29. In a WAP loco, the no. of brake cylinders are ( )
    (a) 8 (b) 10 (c) 12 (d) 16

30. Bolster is used in the following class of locos ( )
    a) WAG5
    b) WAM4
    c) WAP4
    d) WAG7

31. MU2B and F1 Selector Valves are used to isolate ( )
    a) rear loco
    b) A9 and SA9 of rear loco
    c) RSI block in MU operation
    d) None of the above

32. DP Test is done to detect ( )
    (a) Acetylene content in oil
    (b) Methane level
    (c) inside void in axle
    (d) surface crack

33. Field shunting in loco is done to ( )
    a. increase tractive effort
    b. increase power of loco
    c. increase speed
    d. both (b) & (c) are correct

34. QLM setting of WAG-7 loco is ( )
a. 9 Amp. b. 8 Amp. c. 7 Amp. d. 10 Amp.

35. Noise / vibration level of bearing is measured in ( )
a. DB b. dB c. GB d. BD

36. EFDG coil of DJ in WAG-7 loco isR4 ( )
a. holding coil b. closing coil c. None
d. Both (a) & (b)

37. Hitachi Traction Motor is a ( )
a. 4 Pole DC Motor
b. 6 Pole AC Motor
c. 4 Pole AC Motor
d. 6 Pole DC Motor

38. In MVMT bearing used is ( )
a. 6313 with C3 clearance
b. 6312 with C4 clearance
c. 6312 with C3 clearance
d. 6313 with C4 clearance

39. Minor penalties can be imposed to withhold ( )
a. 2 sets of passes
b. 2 increments for one year
c. promotion for one year
d. all the above

40. Opening of the AAL Make VCB is done through ( )
a. air pressure
b. charged spring
c. both (a) & (b)
d. none of the above.

41. What type of bearing is used in WAG-7 loco axle box? ( )
a. ball bearing
b. roller bearing
c. tapered bearing
d. needle bearing

42. In a failed WAP-4 loco, it is found that in TM5 carbon brush was touching to the TM body, which relay would have been operated ( )
a. QLM b. QRSI c.QOP1 d.QOP2

43. What is the voltage of OHE feeding power to WAG-7 loco ( )
a. 25 KV AC b. 1500 V DC c. 11 KV AC d. 440 V AC

44. MVRH is provided to cool the ( )
    a. Traction Motor
    b. RSI block
    c. TFP Radiator
    d. Compressor

45. What is the time interval between IA and IB schedule of WAG-7 loco is …… days ( )
    a. 45 b. 60 c. 90 d. 30

46. Loco brake applies ……..kg pressure ( )
    a. 2.0 b. 3.5 c. 1.5 d.7.0

47. "Back lash" term is related to……. ( )
    a. TFP b. Battery c. CBC d. Gears

48. There are …….. nos. of main poles (MP) in a Hitachi TM. ( )
    a. 6 b. 4 c. 2 d.12

49. The lubricant used in suspension bearing of a TAO motor is…….. ( )
    a. 170-T b. SP57 c. Servo RR3 d. Mineral oil

50. Multimeter is used to measure …… ( )
    a. voltage only
    b. current only
    c. resistance only
    d. all of the above

51. WAG-7 loco is using …….. type of bogies ( )
    a. flexicoil co-co
    b. fabricated co-co
    c. trimounted co-co
    d. any of the above

52. Loco TFP has ……. Nos. of taps for voltage control ( )
    a. 16 b. 32 c. 12 d. depending upon the type of loco

53. What is the ratio of percentage load sharing between center pivot and side bearers in WAG-5 loco ( )
    a. 60:40 b. 50:50 c. 40:60 d.70:30

54. What are the time delays of Q118, Q44 and QTD Relays? ( )
    a. 5 sec, 5 sec, 1 sec
    b. 5 sec, 5 sec, 5 sec
    c. 5 sec, 0.6 sec, 5 sec
    d. 1 sec, 0.6 sec, 5 sec

55. Sand is used in locomotives to avoid……. ( )
    a. wheel skidding
    b. wheel slipping
    c. brake failure
    d. all the above

56. Leakage Test is conducted to find out leakage in ( )
    a. CP b. MR c. BP d. whole loco.

**Fill in the blanks**

1. Pinion and bull gear ratio of a WAG 7 loco is ----------
2. The axle load of WAG 9 is ----------
3. For WAG-7 Hitachi loco, gear ratio ---------- gives best performance for graded section.
4. The energy is consumed by an electric loco per thousand GT KM is ---- KWh
5. Capacity of battery provided in electric loco is _____A.H.
6. Full form of MVRH is _____
7. Primary Helical Spring is used in _____ type of loco.
8. Thickness of Flange at 5 mm Flange wear is _____
9. RPS is used to _____ field of Traction Motor.
10. IP Coil is used to improve _____
11. Higher gear ratio is used for _____ starting torque.
12. Bibby Coupling is provided to couple _____.
13. DGA stands for _____
14. Equivalent resistance of 5Ω Resistor and 3Ω Resistor connected in parallel is _____
15. Type of Pantograph used for WAG-7 loco is _____
16. RSI block is _____ Wave Rectifier.
17. Q-20 Relay is a _____
18. Bo-Bo bogies have _____ no. of axles in each bogie.
19. In DBR operation, traction motor works as _____
20. AM12, AM92 are the type of _____
21. Every loco should be provided with _____ nos. of Fire Extinguishers
22. Brake application and release timing through A-9 should be ____ to ____ sec. While dispatching the loco from shed.
23. Through SA9 _____
24. BC Piston travel should be _____ to _____ mm for WAG7 locos.
25. Leak hole test is conducted for _____ brake system.
26. With two CPs in working loco alone, the BP pressure should reach within _____ secs.
27. EP-90 is the type of _____ made by _____ firm.
28. _____ switch is provided to switch off signaling lamp of rear loco in MU.
29. Rating of HS15250A is _____KW
30. Minimum air pressure required to raise the panto is _____ $kg/cm^2$
31. Opening time of VCB should be less than _____ m/sec.

## Descriptive Questions:

1. Draw a schematic diagram of WAG7 loco power circuit from pantograph to rectifier block

2. What are the things to be checked for trouble shooting of following (Attempt any 2)
    1. MP and EEC failure
    2. Vacuum not building up in a loco
    3. Pantos not raising
    4. All auxiliaries not working
    5. ICDJ
    6. DJ tripping after 6th notch

3. Answer any two of the following
    1. Testing procedure for BP drop & vacuum drop
    2. SMGR strucking on ½ notch – what are the things to be checked
    3. Testing procedure for LT Test
    4. Batteries showing low voltage as soon as load is put on. How to rectify it?
    5. Brakes not applying in a loco through A-9. Identify the possible troubles.
    6. Testing procedure for HT Test

7. Give IOH schedule of any two of the following equipment in WAG-7 loco
    1. Transformer
    2. Traction Motor
    3. SMGR
    4. GR
    5. Safety Relays

8. (a) What are the normal type defects in WAG-7 bogies and its brake rigging.

    (b) Explain overhauling procedure of a Hitachi motors with mounting and dismounting of pinion

9. (a)Explain complete procedure for changing of CBC of a locomotive and name all parts of CBC with a sketch.

    (b)What are side wall filters and what is their use in a loco?

10. (a) Explain with a neat diagram the probable causes of DJ Tripping at 5th notch while starting.
    (b) Also explain the action required to troubleshoot the loco in such situation.

11. Because of earth fault in traction motor, QOP1 is acting. Explain with a neat diagram the working of the QOP Relay, its troubleshooting and isolation of the defective traction motor from the locomotive.

12. What are the safety items to be checked in traction locos before sending for service?

13. Discuss in detail all probable causes for Autoregression with LSP in MU locos specially WAG7 MU.

14. List out causes of fire in AC locos. Explain the methods and modifications for prevention.

15. Explain the process of brake application in a WAG-7 locomotive through A-9. Name all valves used for brake application and give a simple sketch also.

16. (a) What are the normal type defects in WAG-7 locos and discuss the action to be taken to minimize them.
    (b) Explain overhauling procedure of a Hitachi motors with mounting and dismounting of pinion

17. (a) Explain the procedure of initial charging of batteries of a locomotive.
    (b) Explain principle of working of battery charger. What are the troubles of a charger?

18. (a) What are the troubles normally experienced in reversors? What is done during its overhauling in AOH?
    (b) What are the benefits in a 1500 Amps line contactors over 1000 amps. L.C. and explain overhauling of line contactor?

19. What are the drawbacks experienced in the ARNO fed auxiliary supply system? How and upto what level the provision of Static Converter will overcome those limitations?

20. Presently, what are the problems being faced in measuring lateral and longitudinal clearances in WAG7 locomotives? Specify the instructions, if any, being issued by RDSO?

21. What is the importance of Spring Testing Machine? How much it is helpful in Primary Helical Spring breaking cases in WAG-7 locos? What are the other arrangements suggested to avoid PHS breaking of WAG-7 locos?

22. Explain the meaning and usefulness of Motorized Bogie and its limitations to cut down the AOH & IOH schedule time for each class of locomotive?

23. Write short note on the following:
    1. Additional Sander
    2. Nylon Washer
    3. Modified Trunion
    4. Composite Brake Block
    5. Swan Neck Sander

24. Write down the procedure and steps for trouble shooting electric locomotives in the following conditions. *Attempt any two.*
    1. ICDJ
    2. All auxiliaries not working
    3. DJ tripping after 6th notch.

25. What happens if OHE supply goes while using DBR? Discuss the present system available in electric locomotives and its limitations.

26. What are the instructions to be followed for energizing, denergizing and in case of fault of electric locomotive with Static Inverter.

27. In case of cattle run over, what the problems being faced by driver in the locomotive. Discuss the modification done by our sheds and it's usefulness.

28. Match the following:

| **Group-A** | **Group-B** |
|---|---|
| a. Rocker arm | 1. Head Light |
| b. Breather | 2. Gear Case |
| c. Mounting Pad | 3. Pantograph |
| d. Servomotor | 4. Twin Beam Head light |
| e. Felt | 5. Relays |
| f. Plunger | 6. Traction Motor |
| g. RTPR | 7. Bogie |
| h. DC-DC Converter | 8. Transformer |
| i. RF | 9. DBR |
| j. Tel-Tel Fuse | 10. RSI |

29. What is the function of ARNO? Describe with the help of diagram how it generate 3-phase AC supply?

30. What are the values of longitudinal and lateral clearances permitted in a WAG-7 locomotive bogies at different axles? What are the instruments used in measuring these clearances?

31. Draw the power circuit diagram of WAG-7 loco and explain the function of each component in this circuit?

32. A WAG-7 loco has come with QOP1 dropping, write the steps to trouble shoot the loco.

33. List out the WAG-7 bogie components.

34. What is ICDJ? Enumerate the reasons for ICDJ in brief?

35. What are the auxiliaries used in WAG-7 loco, list them and explain their functions.

36. What are the various methods/ tests to detect the cracks in steel parts of the loco? Describe the procedure of Ultra Sound Testing to detect the cracks in loco axle?

37. How to investigate the fire accident loco? Write the steps.

38. Describe the functions of the following: (any three)
    a. Selsyn Transformer (TFP)
    b. Voltage Stabilizer for Headlight (RTPR)
    c. Rheostatic Braking Unit (DBR)
    d. Motor Suspension Unit
    e. Center Pivot in WAG-7 loco

39. Write the overhauling procedure of the following equipments: (Any three)
    a. TM
    b. Bogies of WAG-7 loco
    c. Compressor
    d. GR & SMGR
    e. DBRs
    f. Pantograph

40. Write short notes on the following: (Any three)
    a. QLM
    b. C3W Valve
    c. Brake rigging
    d. VCB
    e. Pantograph
    f. SL

41. a) What are the features of dual brake system
    b) Name essential valves used in pneumatic circuit of dual brake system

42. Draw diagram of Traction Motor power circuit of WAG-7 locomotive with TM connected in parallel and provided with field weakening resistances.

43. Indicate the function and setting of the following safety / protection relays.
    a) QRSI b) QE c) QD d)Q-30 e) QLM

44. a) What are the types of maintenance and overhauling schedules followed for AC locomotives.?
    b) Name the different sections and activities done in each section as followed in your shed.

45. Indicate the attention given during IC for the following (any two)
    a) Tap Changer
    b) Pantograph
    c) Wheel and axles
    d) Axle Boxes
    e) Traction Motor
    f) Main Compressor

## Questions on DAR, Stores, Personnel & General matters

1. (a) Describe various steps for procurement of non-stock item of value
   (i) less than Rs. 1,00,000/- (ii) more than Rs. 1,00,000/-
   (b) Describe the steps for imposition of 'minor penalty'.

2. (a) As a Enquiry Officer in SF-V case, how will you proceed?
   (b) What are the various types of Passes over Indian Railways.

3. Write short notes on any two of the following
   a. Non-stock item procurement procedure
   b. Scrap disposal
   c. Raising a special demand
   d. Imprest stores

4. What is the difference in stock and non-stock items? Describe the procedures for procurement of stock and non-stock items?
5. Write short notes on
   a) Minor Penalty
   b) Continuous Category as specified in HOER
   c) Imprest stores
   d) Procurement of T&P items.

## Questions on Official Language

1. (a) How use of Hindi can be popularized amongst running staff.
   (b) Write the full form of the following in Hindi
   (i) ADRM (ii) APO (iii) DME
   (iv) Sr.DSO (v) Sr.RBA

2. What is the Official Language of India? Under which region, does the state of Andhra Pradesh fall?
3. (a) Write suitable English words for the following
   (i) gauNava%ta –
   (ii) ]pyaaoigata –
   (iii) AnaurxaNa –
   (iv) AnauYaaMigak –
   (v) ]WoXya –

   (b) Write correct Hindi designations for the following

(i) ADRM –
(ii) Sr.DAO –
(iii) Sr.DPO–
(iv) Sr.DSO –
(v) Dy.CEE –

4. (a) rajaBaaYaa AiQainayama, 1963 (yaqa saMSaaoiQoat 1967) kI Qara 3 (3) maoM ikna ikna sarkarI p`yaaojanaaoM ko ilae AMg`aojaI ko saaqa ihndI ka p`yaaoga Ainavaaya- hO ?

(b) Write correct Hindi designations for the following

1. SDGM–
2. COM –
3. CSO –
4. CSTE –
5. Dy.CEE –

5. Translate into English

(i) ivaVut saMrxaa
(ii) AnaurxaNa
(iii) Aaga du-GaTnaa
(iv) ]pisqat rijasTr
(v) prIxaa

6. Translate into Hindi

(i) Electrical Chargeman
(ii) Earthing
(iii) Divisional Railway Manager
(iv) Approved
(v) Casual Leave

**DESCRIPTIVE QUESTIONS:**

1. Draw neat circuit diagram of power circuit of WAG7 loco with all components ratings.
2. Draw neat circuit diagram of MEMU /EMU power circuit with all component ratings?
3. Explain the purpose of earthling of battery –ve intentionally and the problem of battery -ve cable?
4. Draw the DJ control circuit of WAG7 loco and explain how DJ will hold in HT.
5. Write the procedure for overhauling of TM
6. Explain the purpose of providing earths fault protection relay and also explain how earth fault relay energizes, with a diagram, and action to be taken by driver if QOP or QOA acts and also the preventive measures to be taken during normal maintenance schedules?
7. Write the charging and discharging procedure to be followed for commissioning of new batteries?
8. Write about all the safety relays, their ratings and how they cause tripping of DJ in the event of abnormality in loco?
9. Draw the tap changer circuit of WAG7 loco to explain how progression coil will be energized and how the notch-by-notch progression takes place?
10. Draw the circuit to explain how SR picks up in MEMU?
11. What are the major defects in TFP and describe briefly the cause and their remedial action?
12. What are the major failure in TM and describe briefly the causes and their remedial action?
13. What are the major improvements in Traction motor design?
14. What are the major failures of Auxiliary motors? What is the process for VPI to Aux. Motors and the advantages of VPI?
15. What are the advantages of microprocessor based control system of locomotive than the conventional control system?
16. Draw flow chart of the Traction Motor overhauling and what are the various tests to be done after over hauling of TM?
17. What do you mean by the condition monitoring of the equipment. Discuss briefly the various condition monitoring techniques?
18. What are the reasons for ICDJ and discuss their remedial measures?
19. List out the reasons for auto regression and their remedial action?
20. What do you mean by destructive and non-destructive tests. Describe briefly the various destructive and non-destructive tests?
21. Describe the trouble shooting during the CCPT melting?
22. Describe the trouble shooting for QOP and QOA?
23. Draw the flow chart of ARNO overhauling. What are the checks to be done during overhauling of the ARNO?
24. In WAG 7 describes the function of the following valves?
    a. A9 & SA9 brake valve
    b. C2 (BP&BC) relay valve.
25. Draw the neat diagram of pantograph indicates the part. Give the reason for panto entanglement and explain its remedies

26. Why Air dryer is provided in locomotives and Explain its function and advantages in loco?
27. Draw the pneumatic circuit of A9, SA9, C2W (BP&BC) and Explain it briefly
28. What are the improvement measures which should be taken in shed to avoid the pneumatic failures?
29. Explain the working of C3W valve, VAIB valve Airflow measuring valve ?
30. Explain briefly about the various schedule maintenance done during IA, IB, IC1 & IC2 .
31. Explain briefly about the various schedule maintenance done during AOH&IOH
32. Draw the pneumatic circuit diagram of MEMU with brake controller EP unit and explain the working.
33. What are the must check pneumatic item at the time of dispatch?
34. How to weld a bogie frame crack?
35. What is the trip inspection and its periodicity.
36. What attention will be paid during Trip Inspection on Bogie items such as Brake gear, T.M axle suspension bearings, T.M gear case, Axle roller bearings, and Suspension springs.
37. What mounting procedure of a suspension Bearings?
38. What are the checks being carried out before dismounting the suspension
39. Bearing in case of failure?
40. What are the type of defects are experienced on suspension bearings of TAO- 659.
41. What is the discharge rate of a good suspension bearing pump?
42. What is the procedure to be adopted to weld a wear plates on the Bogie?
43. What is meant by Co-Co bogie?
44. What is the length of the locomotive?
45. What is the Gear ration of a wheel set?
46. What is the diameter of the new wheels sets?
47. What is the lower limit of the wheel diameter for condemnation/Re-discing?
48. What are the limits of the Flange wear and Root wear?
49. What is the distance to be maintained between wheel disc and the brake block?
50. What is 'L' type of brake blocks & Advantages?
51. What is wheel to wheel distance of wheel set?
52. What is the height of the sandwich mounting pad?
53. What is the diameter of an Axle?
54. What is the journal dia of an axle?
55. What is the free height of an outer Helical Spring?
56. What are the axle box clearances of a bogie?
57. What is the allowable wheel diameter difference on the same axle?
58. Wheel diameter difference on two axles of the same bogie?
59. Wheel diameter difference on bogie to bogie?
60. What is the height of the buffer?
61. What is the height of the rail guard?
62. What is Brake cylinder piston travel when brakes are in applied condition?
63. What is the height of the center pivot?
64. What is the height of the side bearers?
65. What are the different types of gauges used in Indian Railways?
66. What is the stopper to stopper distance of a wheel set?
67. What is the function of a SB- pump?

68. What is the length of the equalizer assembly of a bogie?
69. What is B H N?
70. What is the tightening sequence of the bolts for TM axle cap?
71. How the vertical load of a locomotive will be transmitted through center pivot and load bearers in WAG5 & WAM4?
72. What is the MSU? Explain with major dimensions?
73. What is the capacity of each gear case?
74. What is the capacity of an each axle cap?
75. How many snubber coils will be available in the locomotive?
76. What is CBC?
77. What is the type of suspension in Co-Co bogie?
78. What is stress?
79. How to find out a bogie crack?
80. What are the correct lubricants recommended by RDSO for suspension bearing TAO-659?
81. What is the diametrical clearance between the journal and the suspension bogie?
82. How suspension Bearings will be checked?
83. What are the various diameters of journal of a wheel set is used in service?
84. The Traction Motor nose-suspension lugs on the bogie frame transoms is how much?
85. What are the purchase powers of officers direct and through tender committee?
86. Is there any powers for condemnation of major rolling stock procurement without replacement. If so furnish details.
87. What is meant by M&P programme at GM's level? Furnish the stages.
88. What is meant by M&P programme at R.Board's level? Furnish the stages
89. What are the items defined as capital space of loco and through which programme such items are to be procured?
90. What are the types of Rolling Stock programme and the process to be followed?
91. What is Rate Contract?
92. What are the items to be procured under Non-stock?
93. What is meant by proprietary article item and its schedule of powers of indenting officer?
94. What is the categorization of items?
95. As a Supervisory official what are the techniques for conducting an inquiry in D & A Rules, 1968?
96. Explain the procedure for imposition of Major penalty under D&A Rules 1968?
97. What are the minor penalties that can be imposed by an independent supervisor in respect of staff working under him?
98. The provision of factory Act, 1948 are not applicable to running sheds on Indian Railways. The staff working in Sheds are governed by the provisions of HOER. Specify various categories under HOER with periodic rest and duty roster hours applicable to them.
99. What are the constitutional provisions in respect of official language?
100. Please specify the documents under section 3.3 of O.L. Act. 1963?
101. Please specify the rules applicable for implementation of Raja Bhasha ?
102. In working places for progressive use of Hindi, what are the suggestions you can suspect that can be implemented ?
103. What are the deductions from wages of an employee that can be made?
104. What are the provisions under rule 14 of D & A Rules, Act 1968

105. What are the various types of records being used for maintenance of electrical locos at loco sheds?
106. What are the various sections in Electric Loco Shed for carrying out various inspections and repair activities on Electrical locos?
107. How to report accidents?
108. How accident enquires are conducted?
109. What is the periodicity of various schedules for freight and coaching locos and what is the periodicity of schedules adopted by SC.Rly?
110. If there was any fault in the QPH/QVSL1/QVS12 /QVMT1/QVMT2 or concerned motor is defective which relay de-energizes first and how much time will be taken for tripping DJ.
111. During wheel slipping which relays acts and what indications will be observed?

**OBJECTIVE TYPE QUESTIONS:**

1. Safety Relays are
   a) All DI type b) All DU type
   c) All DI & DU type d) Some are DU type and some are DI type.

2. DI Type safety relays are
   a) QOP, QOA b) QRSI, QLA, QLM
   c) QOP, QPDJ d) Q44, Q118

3. DU type safety relays are
   a) QOP, QOA b) QLM, QRSI
   c) Q44 d) Q118

4. CT ratio of RSILM:_____
   a) 1000 : 5 b) 2000 : 5
   c) 4000 : 5 d) 1000 : 15

5. CT ratio of TFILM
   a) 50 : 5 b) 100 : 5
   c) 250 : 5 d) 200 : 5

6. Pick up voltage of Q20 in WAG5 locos:
   a) 750 V b) 800 V
   c) 865 V d) 850 V

7. While RB is in service which relay will act if any earth fault occurs in the power circuit
   a) QOP1 b) QOP2
   c) QOA d) QLM

8. The resistance value of RU in WAG locos is
   a) 88 kΩ b) 100 kΩ c) 120 kΩ d) 220 kΩ

9. The resistance value of RQ20 in WAG locos or 6P locos
   a) 2.4 kΩ b) 13.2 kΩ c) 24 kΩ d) 10 kΩ

10. The setting value of Q44 is
    a) 1 sec b) 2 sec c) 5 sec d) 0.6 sec

11. The setting value of Q118 is
    a) 2.5 sec b) 5.0 sec c) 0.6 sec d) 1.5 sec

12. In twin Beam headlight the rating of bulb is _____

a) 24V, 70/75W b) 24V, 90/100W
c) 110V, 70/75W d) 110V, 90/100W

13. The input / output voltage ratings of the DC-DC converter are:
    a) 110V / 110V b) 110V/50V
    c) 110V / 24V d) 110V/20V

14. In a twin beam Headlight, what is the voltage of bulb in “dimmer” operation.
    a) 110V b) 55V c) 24V d) 12V

15. What is the advantage of twin beam headlights system:
    a) Headlight glows while passing on neutral section.
    b) Headlight focusing is good.
    c) Even one bulb fuses also, it will not effect the running of loco to destination.
    d) All the above

16. The rating of a cab heater is.
    a) 500Ώ, 500W (b) 400 Ώ,500W (c) 100 Ώ,500W(d) 50 Ώ,500W

17. How many CPs are required for Air brake loco:
    (a) Minimum 2 CPs (b) Maximum 2 CPs
    (c) Minimum 3 CPs (d) Maximum 3 CPs

18. Rating of MEMU transformer is
    (a) 1200KVA (b) 1000KVA
    (c) 800 KVA (d) 1100KVA

19. Voltage rating of MEMU Traction Motor is
    (a) 500V (b) 580V
    (c) 535V (d) 550V

20. New wheel diameter of MEMU Motor Coach/Trailer coach
    (a) 900 mm (b) 950 mm
    (c) 850 mm (d) 952 mm

21. Total auxiliary motors in MEMU motor coach
    (a) 5 (b) 4 (c) 3 (d) 2

22. Total No.of traction motors in a MEMU/EMU Motor Coach
    (a) 2 (b) 3 (c) 4 (d) 5

23. The Safety device provided in MEMU for detecting gassing and the protection of Transformer is:
    (a) OLP (b) TTR (c) BUD (d) PRV

24. The Safety device fitted to the MEMU Transformer for its protection against

Explosion.
(a) PRV (b) BUD (c) OLP (d) TTR

25. Maximum acceleration of MEMU, on level tangent track with crush load is:
(a) 1.2 Kmph/Sec (b) 1.6 Kmph/Sec (c) 1.8 Kmph/sec (d)1.4 Kmph/Sec

26. The Ampere hour capacity of MEMU battery is
(a) 100 AH (b) 75 AH (c) 90AH (d) 80 AH

27. Tractive effort of MEMU motor coach with 3 TCs at the time of starting
(a) 10 Tonnes (b) 9.6 tonnes (c) 8 Tonnes (d) 11 Tonnes.

28. What is class of Insulation specified for 180 degree temperature:
(a) B class (b) A class (c) H class (d) Y class.

29. The object of sanders is to
(a) Improve the adhension (b) Avoid wheel slipping
(c) To have momentum (d) All the above

30. Continuous tractive effort at wheel rim of WAG7 loco is
(a) 34.3 tonnes (b) 30 tonnes (c) 20.5 tonnes (d) 19.0 Tonnes:

31. The specific gravity of Electrolyte of a lead acid battery at 27 ˚C should be
(a) 1.250 (b) 1.200 (c) 1.100 (d) 1.180

32. Specific gravity of electrolyte is measured using.
(a) Thermometer (b) Hygrometer (c) Hydrometer (d) Lactometer

33. DC series motor is used for traction purpose because:
(a) High speed (b) High starting torque(c) Low starting torque
(d) Constant torque at all speeds.

34.Horse power of a TAO 659 traction motor.
(a) 700 HP (b) 600 HP (c) 770 HP (d) 800 HP

35.Size of each cable connected to Traction Motor is
(a) 120 Sq.mm (b) 150 Sq.mm (c) 200 Sq.mm(d) 270 Sq.mm

41. Size of each cable connected to MVMT1/MVMT2/MRH in AC locomotive is
(a) 3 sq.mm (b) 10 sq.mm (c) 25 sq.mm (d) 50 Sq.mm

42. Size of each cable connected to MCP/MPH is
(a) 3 Sq.mm (b) 10 Sq.mm (c) 25 Sq.mm (d) 50 Sq.mm

43. Size of cable used in control circuits is

(a) 3 Sq.mm (b) 10 Sq.mm (c) 25 Sq.mm (d) 50 Sq.mm

44. Size of cable connected to Arno
(a) 100 Sq.mm (b) 150 Sq.mm (c) 120 Sq.mm (d) 150 or 120 Sq.mm

45. Breaking excitation transformer purpose is to.
(a) Excitation of armature (b) Excitation of field (c) Excitation of both (d) Excitation of TFP

46. BP1 DJ i*s pressed*
(a) To starts the loco (b) To stop the loco (c) To close DJ (d) To trip DJ

47. HQOP & HQOA are
(a) Earth fault relay by pass switches (b) Earth fault relay isolation switches
(c) Earth fault relays (d) All the above.

48. Flasher light is provided in loco/MEMU
(a) To communicate with the loco driver coming in the opposite direction about any difficulty.
(b) To communicate with the loco driver coming in the same direction, about any Difficulty.
(c) To inform the opposite coming loco driver about the abnormality noticed about OHE/Track.
(d) All above.

49. EM contactor pressure is
(a) 650 to 800 gms (b) 600 to 700 gms (c) 600 to 750 gms (d) 600 to 800 gms

50. Electrolyte used in a lead acid battery is
(a) Concentrated sulphuric acid (b) Diluted sulphuric acid (c) Nitric acid
(d) None of above.

51. The active material used for positive plate of lead acid battery is ----(lead peroxide)

52.The fuse rating of CCPT is
(a) 6 AMPS (B) 10 Amps (c) 16 Amps (d) 35 Amps

53. CHBA function is normally
a) To supply the DC charging current to batteries
b) To supply the D.C. load current to various control circuits
c) To supply the current to Auxiliary motors
d) Both (a) & (b)

54. The purpose to RSI Block is
(a) To convert AC to DC (b) To convert DC to AC
(c) To generate AC (d) To generate DC

55. Battery negative is connected to loco body through
(a) HQOP (b) HQOA (c) HOBA (d) HQCVAR

56. MVMT1/MVMT2 are meant for cooling of
(a) Armature pf TM (b) Field coils of TM
(c) Stator of TM (d) All of these

57. Shunting contactors are provided in the loco for the purpose of
(a) Increasing the speed (b) To decrease the speed
(c)To stabilize the speed (d) to stop the train.

58. The speed control method used in AC locomotive/MEMU
(a) Voltage control (b) Current control
(c) Rheostatic control (d) Regenerative control

59. The type of Electric braking system used in AC locomotive is
(a) Regenerative (b) Rheostatic
(c) Both

60. Instrument used to measure contact resistance
a) Whetstone bridge b) Multi meter c) Micro ohmmeter.

61. Action in lead acid cell
a) Reversible b) Irreversible c) Both a&b

62. Purpose of inter pole in the traction motor
a) To avoid sparking on the commutator b) To avoid bad commutation
c) To divert field current

63. During rheostat braking traction motor works as a
a) Generator b) Converter c) Motor d) Inverter

64. Dual speed of PV`s obtained by
a) Changing frequency b) Changing poles c) By inserting resistance.

65. The relay QOP/QOA is the relays of sensing
a) Voltage b) Current c) Resistance.

66) IN MEMU, ABB Governor is for
a) Panto reservoir pipe
b) MR reservoir
c) Aux reservoir
d) Bp reservoir
e) None of the above

67) IN MEMU the setting of ABB Governor cut in /cut out is-

a) 6.0/7.0kg/cm$^2$
b) 8.0/9.0 kg/cm$^2$
c) 5.6/4.5kg/cm$^2$
d) 4.0/5.0 kg/cm$^2$
e) None of the above

68) In MEMU the setting of MCP Governor cut in /cut out is-
a) 5.0/6.0 kg/cm$^2$
b) 7.0/8.0 kg/cm$^2$
c) 4.5/5.5 kg/cm$^2$
d) 6.0/7.0 kg/cm$^2$
e) None of the above

69) IN MEMU one of the following is a part of brake controller
a) Tripple valve
b) Equalising discharge valve
c) Safety valve
d) Application magnet valve
e) None of the above

70) IN MEMU one of the following is a part of EP unit
a) Equalizing valve
b) Triple valve
c) Puppet valve
d) Self lapping cylinder
e) None of the above)

71) IN MEMU the setting of equipment governor cut in/cut out is
a) 4.5/5.5 kg/cm$^2$
b) 2.2/3.8 kg/cm$^2$
c) 4.2/3.3 kg/cm$^2$
d) 4.4/5.2 kg/cm$^2$
e) None of the above

72) IN MEMU the setting of control governor cut in/cut out is
a) 5.5/4.3 kg/cm$^2$
b) 3.3/4.2 kg/cm$^2$
c) 3.2/4.8kg/cm$^2$
d) 5.5/6.5 kg/cm$^2$
e) None of the above

73) IN MEMU the BC Pressure is -
a) 2.0 kg/cm$^2$
b) 3.5 kg/cm$^2$
c) 1.5 kg/cm$^2$
d) 4.0 kg/cm$^2$
e) None of the above

74) IN MEMU the MR Pressure is

a) 5.0 kg/cm$^2$
b) 7.0 kg/cm$^2$
c) 6.0 kg/cm$^2$
d) 8.0 kg/cm$^2$
e) None of the above

75). IN WAG-7 BP pressure not building up
a) A9 defective
b) C3W defective
c) SA9 defective
d) R6
e) None of the above

76) .IN WAG7 MR pressure not building up
a) A8cock closed condition
b) Bogie cocks closed condition
c) VEAD cock closed
d) MR cock closed
e) None of the above

77) IN WAG7 MCPA pressure not building up on run
a) VESA air leaking
b) VEAD air leaking
c) IP (E) air leaking
d) DJ oil separator drain cock closed
e) None

78). In MU loco driver experienced rear loco brakes are not applying found the following trouble
a) MU2B leading loco in leading
b) MU2B tailing loco in leading
c) A1 differential cock closed
d) SA9 problem
e) None

79). Vacuum dropping suddenly on run. Driver will check for below
a) A9 defective
b) Train parted
c) VER (M) defective
d) VA1B defective
e) All the above

80) Duplex check valve defective in WAG7 loco which resulted to
a) Horn/wiper not working
b) Horn / sanders not working
c) Horn/FP not working
d) All the above
e) None of above

81. Voltage operated relays are _____ type.

82. Current operated relays are _____ type.
83. Setting value of QRSI relay _____ in WAG7/WAG5 locos
84. The purpose of SL is to ---------(Remove the pulses in DC out put from the rectifier)
85. The resistance value of RPGR is ……
86. The resistance value of RGR is ……..
87. The HP of MVSL is ……..
88. LECE is provided in the loco to indicate……
89. LSCHBA is provided in the loco to indicate……
90. Additional CCBA provided to protect ……
91. DC-DC converter provided to use head lamps of loco in ……section
92. Over charging of batters results …….
93. Under charging of batters results…….
94. Tan delta being measured to monitor ……
95. DGA being measured for insulating oil……..
96. Transformer breather used for ……..
97. Traction Motor natural axies set by ……method
98. Q20 will pickup at -…….. Drop out at ……for 6P combination locos.
99. Current transformers are used to measure …….in AC systems.

100. The protection against safety for equipment as well as human in the locomotive.
    i. ETTFP b) ET1 &2 c) HOM
101. The number of auxiliary motors starts along with ANNO------
102. SJ is connected in series with……..
103. Tolerance of voltage in static converter …….
104. TFP oil is **……**
105. Tan delta test to detect…….
106. FRPCPY –…….
107. Effective value of RC-network across a3, a4&a5, a6 in WAM 4-6P loco ……
108. Type of traction motor bearing – ……..
109. Shock pulse meter to……..
110. Class of insulation for auxiliary motors winding……
111. UA is connected to ARNO U&V phases to read auxiliary power voltage corresponding to ……
112. Suspension bearing ……metal bearing.
113. …….. is used to estimate moisture content in transformer oil.
114. Water content allowable in the transformer oil max …….. in service new filtered oil …….
115. Specific resistance at 90° C (OHM-cm) ……new oil 35x 10 ohm Cm (min)
116. Die electric dissipation factor (Tan delta) at 90°c (IS-6267 –71) ……for in service oil new filtered oil……**.**
117. Acidity 0.5 mg KOH / Gm (max) in service for new filtered oil ……**K**OH/gm
118. Sediments and perceptible sludge allowable in TFP oil ……..
119. Transformer oil flash point minimum …….for serviceable oil and ……for new filtered oil.
120. Interfacial tension at 27°…… for new filtered oil

121. Oxidation inhibitor …….by mass (max)
122. Ovalty of TM TAO armature ……
123. Arc horn gap for WAG-7 ……..
124. The purpose of star delta starter for induction motor is to …….on line.
125. VCB pressure switch setting cut in ……
126. Conservator safety valve spring tension ……
127. PHGR oil strokes ……
128. Tightness (torque) of GR segments ……
129. Minimum thickness of GR segments …….
130. Main contact pressure of reverser/CTF ……
131. Effective value of CAPTFP 3,4,5&6 ……..
132. Rating of surge arresters in 6P loco ……..
133. EM contact pressure ……..
134. EM contactor main contact air gap ……
135. C118 contactor pressure ……contact (C118) air gap_……
136. CGR contactor pressure……..
137. Transformer oil used to……..
138. Pyrometer is used to measure……..
139. In lead acid battery active material for positive plate –…….. It is in …….colour.
140. Negative plate active material……..
141. The electrolyte used in lead acid battery. ……..
142. Specific gravity of fully charged cell ……..
143. Contact used for AC MVRF ……
144. Hydrometer is used to measure…….
145. CGR contacts thickness ……
146. CGR contacts opening …….
147. The rating of ATFEX ……..
148. The current through RGR flows when ……..are closed.
149. Fully charged cell gives off ……at cathode and …….at anode.
150. The input supply of CHBA ……..output …….
151. Which amongst the following insulation class of material can with stand highest temperature. A) H B) C C) F D)B
152. TFVT input ……..out put 110 V A.C
153. The air gap between stator and rotor of MVRH ……..
154. The air gap between stator and rotor of MVMT is ……..
155. The size cable connected to ARNO ……..
156. Two pole synchronous motor runs at …….. rpm
157. Un serviceable scrap is placed ……..on the form ……(DS dead stock)
158. Class of insulation and temperature
Y= 90°c: A=105°c : E=120°c : B=130°c : F= 155°c. H=180°c, C=225°c
159. RGR Resistance value ……..
160. R QOP resistances valve ……..
161. R118 resistance ……
162. RHOBA resistance ……..
163. QOP/QOA coil resistance value …….
164. Q30 coil resistance ……

165. Q44 /Q118 coil resistance value ……
166. QLM/QE/QF/QRSI relays resistance……..
167. RPS permanent field weakening resistance…….
168. Continuous current permissible through RPS ……
169. Meter used to check inter turn shorts in EP coils ……..
170. Rating of HRC fuses used in series with RPS…….
171. No of poles used in MEMU traction motor ……
172. Type of cooling used in MEMU traction motor …….motor.
173. Continuous rating of MEMU TM ……
174. When MPS in 1 position what is the resistance value applied in parallel to the field ……
175. Mica thickness of commutator of MEMU TM ……..
176. MEMU TM depth of mica under cut …….
177. what is the wear limit of Brush for MEMU traction motor…….
178. When MPS in 2 position what is the resistance value applied in parallel to the field ……..
179. When MPS in 3 position what is the resistance value applied in parallel to the field ……
180. QVMT cut in pressure 150 mm WG cut out ……
181. QVRH cut in pressure 50mm WG cut out …….
182. QVSL cut in pressure 50mm cutout…….
183. FYFR ……..

184. In WAM4 loco the standard setting of BP pressure is……..
185. In WAM4 loco the standard setting of FP pressure is ……..
186. In WAM4 loco the Pressure drop is allowed up to ……..
187. In WAG5A loco the BP drop is allowed up to ……..
188. In WAG5A loco the FP leak hole drop is allowed up to …….
189. In WAG5A Dual brake loco the Vacc drop should not exceed ……..
190. In WAG5A loco the Standard setting of RGCP is cut in/cut out ……
191. In WAG5A loco the Standard setting of QPDJ is cut in/cut out ……..
192. In WAG5A loco the standard setting of SWC cut in/cut out …….
193. In WAP4 loco the standard setting of QPH is cut in/cut out ……..
194. In WAP4 loco the standard setting of RGAF is cut in/cut out ……..
195. In WAP4 loco the standard setting of P1 is cut in/cut out ……..
196. In WAP4 loco the standard setting of P2 is cut in/cut out …….
197. In WAM4 loco the standard setting of RGEB1 in DBC loco cut in/cut out ……..
198. In WAP4 loco the standard setting of RGEB2 cut in/cut out……..
199. In WAG5A loco the standard setting of CPA SV (SS1) is …….
200. In WAG5A loco the standard setting of MR Safety Valve (SS2) is ……
201. In WAG5A loco the standard setting of CP Safety valve is …….
202. In WAG5A loco the Brake application pressure through SA9 is ……..
203. In WAG5A loco the BP Charging Time through A9 Emergency to release position should be. ……..
204. In WAG5A loco the Brake application/release time through SA9 is ……

205. In WAG5A loco the Brake application/release time through A9 for passenger loco is ……
206. In WAG5A loco the Brake application/release time through A9 for goods loco is ……
207. In WAG7 loco the contact pressure of pantograph AM 12 is ……
208. In WAG7 loco the raising / lowering time of pantograph is …….
209. In WAG7 loco the Metalised carbon strips in pantograph are provided to ……..
210. In WAG7 loco the Duplex check valve is set at …….
211. In WAG7 loco the minimum pressure required to raise pantograph AM 12 is ……..
212. In WAG7 loco the lowering time of pantograph AM 12 is adjusted through…….
213. InWAG5A the panto raising steps are adjusted by the …….
214. In WAM4 loco during vacuum block test vacuum should not create ……..
215. In loco motives Air dryers are provided to adsorb moisture from …….air.
216. In WAG 5 loco the preset level of vacuum is adjusted by the …….
217. In WAM 4 during BP leak hole test MR pressure should not drop ……
218. RDSO Modification no.304 is tells provision of ¾ pipeline to …….
219. RDSO Modification no.308 is about provision of ……..
220. RDSO SMI NO 197 is tells about…….
221. In WAM4 SMGR PRV setting is ……..
222. RDSO SMI NO 11 is for the ……
223. Vacuum level setting at WAM4 dual brake loco dummy/disc is ……
224. In WAG5A loco the setting of HS4 control valve is ……
225. In WAG5A loco the Auto drain valve is provided to drain the moisture from …….
226. In WAG5A loco the purpose of Unloaded valve is to avoid burning of ……..
227. In WAG5A loco the permissible limit of Transverse flexibility of pantograph is ……..
228. In WAG5A loco the brake cylinder pressure through A9 is ……..
229. Classification of loco failures.
230. Types of maintenance schedules being carried out in Electrical loco shed:
231. Types of maintenance schedules being carried out in trip sheds:
232. RDSO issues for Reliability of equipments for maintenance of different equipments:
233. Types of maintenance schedules being carried out in workshops:
234. Periodicity of AOH schedule for freight locos:
235. Periodicity of IOH schedule for freight locos**:**
236. Periodicity of POH schedule for freight locos:
237. Periodicity of IC schedule for freight locos:
238. Periodicity of IB schedule for freight locos:
239. Periodicity of POH schedule for coaching locos:
240. Periodicity of IOH schedule for coaching locos:
241. Periodicity of AOH schedule for coaching locos:
242. Periodicity of IC schedule for coaching locos:
243. Periodicity of IA schedule for coaching locos:

244. Periodicity of IB schedule for coaching locos:
245. Trip inspection is carried out after. ……**Kms** for pass. &…**Kms** for freight locos.
246. Maintenance of transformer & Tap changer is being done by… …section in electric loco sheds.
247. Over hauling of pneumatic equipments is carried out by …. …. section by electric loco sheds.
248. Heavy repairs of bogies & mechanical complaints are being carried out by **….** …. Section in electric loco sheds.
249. Planning & dispatch of locos being done by …. …. section in electric loco sheds.
250. Specification and drawings preparation is done by ……section in electric loco sheds.
251. Loco failures and analysis is being done by **….** …… section in electric loco sheds.
252. Troubleshooting & investigation of unusual occurrence is being done by… …. Section in electrical loco sheds.
253. Wheel set clearances is being measured during **……** …….. Schedule.
254. Traction Motors over hauling is being carried out by … ..…section in electrical loco sheds.
255. Electronic PCBs & components are checked by **… …**……section in electrical loco sheds.
256. Under frame inspection is carried out by … ……..section in electrical loco sheds.
257. Material procurement of stores, updating of specification and test & trail are maintained by … ……section in electrical loco sheds
258. Full form of the following abbreviations.
    1. CLW -
    2. COFMOW -
    3. DGS&D -
    4. M&P Items -
    5. RSP -
    6. PAC -
    7. PL No. -
    8. RITES -
259. What is the purchase powers of AMM @ COS -
260. What is the purchase powers of SMM @ COS -
261. What is the purchase powers of Dy.CMM @ COS-
262. NS Indent form No. S1302 is used for value up to ……..
263. For indent above Rs. 10,000/-, form No…….. to be used
264. To draw the stocked item form No. …… to be used
265. For which value indent is to be got vetted above Rs……..
266. What is the sign power of PAC upto Rs.25,000/- …….
267. What is the sign power of PAC upto Rs. 25,001 to 75,000 ……
268. What is the sign power of PAC upto Rs. 75,001 to 3 Lakh ……..
269. What is the sign power of PAC above Rs. 3 Lakh ……
270. Category – A value……..
271. Category – B value ……
272. Category – C1 value…….
273. Category – C2 value……

274. Who are the officers to be nominated in tender committee for item above Rs. 5 Lakhs upto 10 Lakhs?
275. Who are the officers to be nominated in tender committee for item above Rs. 10 Lakhs upto 40 Lakhs?
276. Who are the officers to be nominated in tender committee for item above Rs. 40 Lakhs upto 1 Crore?

277. During the suspension period, the suspended employee is entitled for subsistence allowance instead of monthly salary. For drawal of subsistence, the charged employee is required to submit to Disciplinary authority a non-employment certificate in prescribed form. The form No. is _____.

278. The Disciplinary Authority desires to appoint an inquiry officer to inquire into misconduct /misbehavior of the charged employee after issue of majority penalty charge sheet and on consideration of written statement of defense of CE, the communication of nomination of inquiry officer ordered in form No. _____
279. For Imposition of major penalty, a charge sheet is issued to Railway Servant. What is standard form No._____
280. A Rly.Servant was convicted by a Court of law and sentenced him for imprisonment for a period exceeding 48 hours. But he has not informed his conviction to the immediate Controlling officer. After a week local police informed the whereabouts of the Railway servant. The Railway Servant shall be placed under Deemed Suspension from the date of his conviction. The standard form _____ is to be issued to place a Railway servant under Deemed suspension.
281. One technician Gr.I entered the working premises in a state of intoxication. The supervisor observed and reported the matter to higher authorities. It is deemed that the employee violated the Rule No. _____ of Railway Services (Conduct) Rules, 1966
282. The Railway servant while attending AOH locos, he has not devoted his attention fully. As a result, a failure had taken place owing to his negligence. Such negligence on the part of a Railway servant can be taken up under rule No. _____

283. The period of LAP/LHAP sanctioned by an independent supervisory official in scale Rs. 5500-9000 and above to the staff of safety categories per annum shall not exceed _____ days.
284. The State Railway Provident Fund (SRPF) rules will not apply to Railway servants entering into service on or after _____.
285. Powers of Suspension to an Assistant Officer in respect of Group C & D staff upto and including pay scale of Rs. _____
286. Suspension is not a _____
287. Out of minor penalties under D&AR, the lowest penalty shown in Rule 6 is _____

288. An order passed by an inquiring authority in the course of an enquiry under Rule 9 against which _____ appeal lies.
289. The D&AR Rules have come into force on _____
290. Should a Government servant require obtaining prior permission to join a chit fund?

291. A Railway servant holding Group C&D post enters into a transaction in respect of moveable property either in his own name or in the name of his family member shall report to Government within one month from the date of transaction, if such property value exceeds Rs. _____
292. A Railway servant holding Group A & B post enters into a transaction in respect of moveable property either in his own name or in the name of his family member shall report to Government within one month from the date of transaction, if such property value exceeds Rs. _____
293. The limitation of time for an appeal in D&A Rules, 1968 is _____ Ans: 45 days
294. The inquiring officer is nominated by _____ in D&A Rules, 1968.
295. _____ Days time is to be allowed to the charged employee for submitting his
296. Written statement of defense.
297. If the charged official does not appear before the Inquiry officer, the inquiry may be held _____
298. The inquiry officer during inquiry has to first examine witnesses of _____
299. What is full form of D&AR? .
300. The inquiry officer should normally complete inquiry from the date of his appointment?
301. If on the date of retirement of an employee, he is neither suspended nor charge sheet issued to him, then proceedings against him can be instituted only with the approval of _____
302. The charge sheet on behalf of the President cannot be issued to a retired Railway employee in respect of offence, which had taken place more than _____ years before issue of charge sheet.
303. The recommendations by the complaint committee in respect of offence of sexual harassment of working women in her work place is _____ on D.A.
304. If an employee, after his retirement, is found guilty in judicial proceedings for an offence committed during his service a cut in pensionary benefits can be imposed by the _____
305. Hindi Diwas is celebrated every year on _____
306. Under the Hours of Employment Regulations, the artisan staff working in ELS is classified as _____.
307. How many languages are included in the VIII Schedule of the Constitution of India?

308. For the purpose of implementation of official language, the Union of India is divided into _____ regions.
309. What is the qualifying service for a Railway servant to retire from service voluntarily?

310. Grant of “leave not due” in entire service to a Railway Servant is limited to _____

311. Who is the appointing authority is respect of group C & D in grades raising pay up to Rs. 4590/-
312. Special casual leave on sports account for participation in international events can be sanctioned by DRM is _____ days.
313. The powers for transfer of Group C&D staff on Inter Railway basis lies with _____

314. The powers for transfer of Group C &D staff in case of inter divisional transfer lies with _____
315. The total deductions including payment to co-operative societies from an
316. employed person shall not exceed _____% of such wages.
317. The wage period under the Payment Wages Act shall not exceed _____
318. The over-time allowance is payable in case of beyond rostered hours _____ time of ordinary wages
319. _____the ordinary wages will be paid to an employed person, if he employed more than statutory hours.
320. Temporary exemption in respect of non-gazetted staff can be ordered by an officer not less than the rank of _____ .
321. An independent supervisory official can institute DAR proceedings against the staff working under him who are in _____ grades below.
322. Amplify the abbreviation "S.O.P." _____ .
323. Amplify the abbreviation "ACR": _____ .
324. Conducting of an inquiry is not necessary under D&A Rule No. _____
325. The Appellate Authority is _____than DA.
326. In case the penalty in a case is adequate, the appellate authority _____ the penalty imposed by the DA.
327. If the penalty ordered is severe with reference to the nature of misconduct, the
328. Appellate authority can _____ the penalty imposed by DA.
329. If the penalty imposed by DA is inadequate, the Appellate Authority can _____ the penalty ordered. .
330. The Railway Servant's Discipline and Appeal Rules were made as per the proviso to Article _____ of the Constitution.
331. The D&A Rules are not applicable to _____ staff.

332. The D&A Rules are not applicable to any person who is in _____ employment.

333. Holding of inquiry is _____ necessary in case the charged employee admitted all the articles of charges framed against him.
334. In D&A Rules, the Commission means _____
335. R.R.T.: Amplify _____ .
336. Revisionary powers on an appeal at zonal level can be exercised without restriction of any time limit by _____. .
337. The Railway Servant may for the purpose of his defence submit the written statement of defence and a list of _____ to be examined on his behalf.
338. What is the standard form to be issued to a Railway Servant for imposing minor penalty charge sheet.
339. The Inquiry officer should be sufficiently _____ in rank to the charged official.
340. What is the temperature raise permitted on TAO –659 SB's ……
341. What is the temperature raise permitted on TAO –659 AB ……
342. What is the radial clearances for WAG-7/Axle Box bearings during services……
343. How Bogie frames declared as distressed as per RDSO norms……

1. Type of three phase locomotive available on Indian Railways
   a) WAP1/WAP5/WAP4
   b) WAG7/WAG9/WAP7
   c) WAP5/WAP7/WAG9

2. Type of motor used in 3 phase locomotives
   i) DC series motor
   II) Three phase IM
   iii) Single phase IM

3. Advantage of three phase locos.
   a) Regenerative basis
   b) UPF
   c) Both a & b
   d) None of the above.

4. In 3 phase locomotives, three phase indicates?
   a) Three phase OHE supply system
   b) Three phase supply to the motor
   c) Both a & b
   d) None of the above

5. Higher horse power locomotive available with type of locomotive on Indian Railways.
   a) WAG9
   b) WAP7
   c) Both
   d) WAP4

6. Important power device used in three locomotive for power conversion
   i) IGBT
   ii) GTO
   iii) Transistor
   iv) IGCT

7. Type of Pantograph used in 3 phase
   a) AM12
   b) AM92
   c) IR03
   d) Both b & c

**ANSWER THE FOLLOWING QUESTIONS**:

1. Describe the improved technical features available in three phase locos over conventional locos?
2. Describe the types of brakes available in three phase locos?
3. Describe the advantages of three phase locos over conventional locos?
4. Describe the positions of automatic train brake (A-9) handle in three phase locos?
5. Write the trouble shooting procedure for fault message "F01 04 P1" i.e. " catenary voltage out of range" even though OHE voltage is available within the range?
6. Draw the schematic diagram of fiber optic cables layout in 3 phase locos?
7. Draw the schematic diagram of WAG-9 loco power circuit?
8. Describe the sub-systems available in three phase locos?
9. Name the various maintenance schedules being followed for three phase locos and indicate their periodicities for WAG9 & WAP7 locos?
10. Draw and explain briefly the BP charging through A9 in three phase loco?
11. Describe the loads of auxiliary converters and their load sharing when auxiliary converter No.1 is isolated?
12. Name the various rotary switches available in SB-1 panel? Indicate their positions and significances?
13. Draw the line diagram of Potential Transformer (PT) circuit and explain briefly?
14. Name the various major and minor maintenance schedules being followed in three phase locos and indicate their periodicity for WAG-9 and WAP-7 locomotives?
15. Draw the line diagram of oil cooling arrangement (TFP & SR) in three phase locos and explain briefly?
16. a) How many Bus stations are there in three phase locos and what are they?
    b) How many processor cards available in 3 phase locos and indicate the processor cards available in power converter and vehicle converter unit-1
17. a) How many sub-systems are available in three phase locos and what are they?
    b) Name the rotatory switches available in SB-1 panel? Indicate their positions and its significance?
18. Write the trouble shooting procedure for the following?
    a) BUR-1 and further BUR-2 are getting isolated sequentially with inverter over current/DC link over current and further main power is getting isolated?
19. In how many ways a traction converter can be isolated, indicate?
20. Describe the procedure for viewing the background data in the DDS?
21. What are the different types of speed sensors used in WAG9/WAP7 (GTO) locomotives? Briefly explain their features and relative merits and demerits?
22. Briefly explain the working of AFI in WAG9/WAP7 locomotives with E70 brake system?
23. Briefly explain the role of E70 relay valve in E-70 brake system? How many different ways the message "Brake Electronics Fail" can be generated in 3Ø locomotives? Briefly explain any three possibilities with root cause?
24. What are the key differences between the maintenance of HS15250A and FRA6068?
25. What do you understand by following DDS messages?
    i. ASC1:0081-PS Fault Storage CGP
    ii. ASC2:0053-Error Tacho generator 2

iii. FLG1: 0040-S/R Interlock-main res. low
iv. BUR2:0020-Bat. Charger current below 10A
v. ASC2:0082-PS fault storage GBC

26. What are the different ways of resetting Vigilance cycle of VCD in 3Ø locomotives? What action takes place when BPEMS switch is pressed?
27. How many different ways emergency braking can take place in 3Ø locomotives?

**Match the following (3Ø)**

1.

| Sub System | Sub System Number |
|---|---|
| a) BUR3 | 1)3 |
| b) SR2 | 2)2 |
| c) HF | 3)10 |
| d) FDU | 4)8 |
| e) Brake Electronics | 5)9 |
| | 6)4 |
| | 7)15 |

2.

| Contactor Number | Description |
|---|---|
| a) 8.1 | 1) Contactor converter pre. Charging |
| b) 12.3/1 | 2) Harmonic filter contactor |
| c) 8.41 | 3) Capacitor bank DC link |
| d) 15.5/2 | 4) Pre charging resistance of converter |
| e) 14/2 | 5) Contactor for discharging resistor |

3.

| Sensor Number | Description |
|---|---|
| a) 6.1 | 1) Current sensor drive inverter |
| b) 3 | 2) Primary current transformer |
| c) 18.5 | 3) Primary voltage transformer |
| d) 18.2 | 4) Voltage indicator DC link |
| e) 15.7 | 5) Current sensor line converter |

4.

| MCB | Corresponding Auxiliary |
|---|---|
| a) 59.1 | 1) MCB of Scavanger for MRB |
| b) 53.1 | 2) MCB for OCB |
| c) 56.1 | 3) MCB for TMB |
| d) 47.1 | 4) MCB for TFP-MPH |
| e) 63.1 | 5) MCB for MCP |
| | 6) MCB for SRMPH |

5.

| Component | Description |
|---|---|
| a) WRE Module | 1) Drive converter for SR |
| b) Wandler Module | 2) Primary Voltage Transformer |
| c) NSR | 3) Rectifier Module for BUR |
| d) ASR | 4) Inverter module for BUR |
| e) GG Module | 5) Line converter for SR |

6.

| MCB | Description |
|---|---|

| | | |
|---|---|---|
| a) | 100 | 1) MCB for loco control electronics |
| b) | 110 | 2) MCB for Battery charger input |
| c) | 112.1 | 3) MCB for Machine room lighting |
| d) | 112 | 4) MCB for Battery |
| e) | 310.4 | 5) MCB for Battery charger output |

7.

| | Component | Location |
|---|---|---|
| a) | FDU | 1) HB2 |
| b) | MCR | 2) HB1 |
| c) | Wandler Module | 3) SB2 |
| d) | Aux Transformer 415/110v | 4) SR |
| e) | Earth Fault Relay Aux | 5) SB1 |

8.

| | Component | Description |
|---|---|---|
| a) | ZTEL | 1) Asst. Loco pilot desk Lamp |
| b) | ZK | 2) Switch for Max. Traction Limitation |
| c) | LSCE | 3) DC link |
| d) | ZLI | 4) Switch Instrument lighting |
| e) | ZLDA | 5) Indication lamp for over temp. CEL |

9.

| | Pneumatic Component | Description |
|---|---|---|
| a) | 70 coc | 1) FP charging coc |
| b) | 74 coc | 2) BP charging coc |
| c) | 47 coc | 3) Emergency exhaust coc |
| d) | 136 coc | 4) Dead loco AR charging coc |

10.

| | Pressure Switch | Description |
|---|---|---|
| a) | 172.2 | 1) Pressure switch emergency brake |
| b) | 269.4 | 2) Pressure switch low MR |
| c) | 269.6 | 3) Pressure switch main compressor (8Kg) |
| d) | 269.1 | 4) Pressure switch loco brake |
| e) | 269.2 | 5) Pressure switch brake cylinder |

11.

| | Bearing type | Location |
|---|---|---|
| a) | NU330 | 1) CE bearing for HS15250A |
| b) | NJ320 | 2) PE bearing for HS15250A |
| c) | NJ324 | 3) DE bearing for FRA6068 |
| d) | NU2236 | 4)NDE bearing for FRA6068 |

12.

| | No. of BURs working | Condition of Load sharing contactors |
|---|---|---|
| a) | All BURs in service | 1) 52/3, 52/4 & 52/5 closed |
| b) | Only BUR1 Isolated | 2) 52/1, 52/3 & 52/5 closed |
| c) | Only BUR2 Isolated | 3) 52/4, 52/2 & 52/5 closed |
| d) | Only BUR3 Isolated | 4) 52/1, 52/3 & 52/4 closed |

13.

| | Component | Location |
|---|---|---|
| a) | MCP | 1) Machine Room |
| b) | Filter block resistance | 2) under gear item |
| c) | FDU | 3) CAB item |
| d) | DBC | 4) Roof item |

14. Condition of BURs in ELS/LGD — Number of Aux. Load

a) Total Aux. loads on all BURs 1) 6
b) Total Aux. loads on BUR2 when All BURs are working 2) 13
c) Total Aux. loads on BUR2 when Only BUR1 isolated 3) 8
d) Total Aux. loads on BUR3 when Only BUR1 isolated 4) 7

15.

| Node Number | Action |
|---|---|
| a) 570 | 1) After raising PT |
| b) 550 | 2) After closing DJ |
| c) 596 | 3) After selection of direction |
| d) 504 | 4) Self-Test complete |
| e) 590 | 5) After taking Throttle |

16.

| Equipment Number | Description |
|---|---|
| a) 47 | 1) Contactor for MCP |
| b) 47.1 | 2) MCP |
| c) 47.2 | 3) MCB for MCP |
| d) 47.2A | 4) Snubber circuit for contactor |

**CHOOSE THE CORRECT ANSWER**

1. Different gear ratios in WAG-9 loco is
   a 15:77, 18:64 b. 15:77, 20:72
   c. 15:77, 21:107 d. 15:77, 17:77

2. Maximum braking effort of WAP-7 Loco is
   a. 260KN b. 160KN
   c. 182KN d. None of the above

3. ZV-ZV Valve sets consists of
   a. 2 GTOs and 2 Diodes b. 4 GTOs and 4 Diodes
   c. 5 GTOs and 3 Diodes d. 5 GTOs and 3 Diodes

4. Voltage applied to Traction Motors (Phase to Phase) in WAG-9 loco is
   a. 2180 Volts b. 2800 Volts
   c. 750 Volts d. None of the above

5. If ZBAN is switched “ON”
   a. FP drops to zero b. Over charging of BP takes place
   c. BP drops to zero d. BP & FP drops to zero

6. Machine Room blower-I receives supply from
   a. BUR-1 b. BUR-2
   c. 415 Volts directly d. 110Volts directly from Transformer

from Transformer

7. Machine Room blower works
   a. In cooling mode
   b. In driving mode
   c. In cooling and Driving modes
   d. In Driving and self hold mode

8. Minimum Voltage relay in 3 phase locos is for
   a. Sensing of OHE Voltage in driving mode
   b. Sensing of OHE Voltage in Cooling mode
   c. Voltage protection in self hold mode
   d. Over voltage protection in simulation mode

9. Purpose of using single phase machine Room blower in 3 phase locos
   a. Facilitating to work in driving mode for cooling machine room
   b. Facilitating to work in self hold mode for cooling machine room
   c. Facilitating to work in simulation mode for cooling machine room
   d. Facilitating to work in cooling mode for cooling machine room

10. Minimum voltage relay in three phase locos
   a. 86 in SB-2
   b. 78 in SB-1
   c. 86 in SB-1
   d. 78 in SB-2

11. For working in cooling mode BL is to be operated from
   a. D-OFF-C
   b. OFF-C
   c. D-OFF-C-OFF-C
   d. b & c

12. Continuous glowing of LSFI indicates
   a. Any of the sub-system is isolated
   b. A priority-II fault
   c. Any auxiliary motor is isolated
   d. None of the above

13. DC Link voltage of Traction Converter is
   a. 1172 Volts
   b. 2180 Volts
   c. 2800 Volts
   d. None of the above

14. Traction Motors in three phase loco are
   a. 3 Phase slip ring induction motor
   b. 3 Phase synchronous motor
   c. 3 Phase squirrel cage induction motors
   d. DC series motor

15. Battery charger rectifier in 3 phase locos:
   a. Half Wave
   b. Bridge Full wave
   c. Full Wave center tap
   d. Both b & c

16. BUS STATION cooling fans work on
   a. 110Volts
   b. 48Volts DC

c. 24Volts DC d. 110Volts AC

17. MUB acts when DC link Voltage reaches:
    a. 2800 Volts b. 2100 Volts
    c. 3200 Volts d. 3000 Volts

18. VCB trips when transformer oil temperature rises to
    a. 80 degrees b. 84 degree
    c. 75 degrees d. 70 degrees

19. Output of Auxiliary winding is
    a. 415Volts b. 1000Volts
    b. 2100Volts d. 1200Volts

20. In three phases locos Priority-II message means
    a. Trips VCB b. Shut down loco
    b. Isolates sub-system d. Allows normal functioning

21. "ASC:0081-PS Fault Storage CGP" message is logged in three phases based on
    a. Differential voltage b. Differential current
    b. Differential earth fault d. None of the above

22. VCB trips when auxiliary circuit current exceeds
    a. 280Amps b. 400Amps
    c. 500Amps d. 1000Amps

23. Output frequency of a Traction Converter is
    a. 60-120HZ b. 62-132HZ
    b. 50-100HZ c. None of the above

24. ZTEL switch is used in
    a. Banking mode b. Inching mode
    c. Simulation mode d. None of the above

25. Type of batteries used in three phase locos
    a. NiCd b. Both a & c
    c. Lead Acid d. None of the above

26. Primary over current relay is
    a. 89.7 b. 78
    b. 89.6 d. 86

27. Time delay of Timer relay in MR Blower
    a. 08 Sec b. 10 Sec
    c. 12 Sec d. 05 Sec

28. Current rating of OCB MCB is

a. 40 Amps b. 63 Amps
c. 80 Amps d. 16 Amps

29. In STB-1 signal “AMSB 0102 LVCB” “L” indicates
a. Action of the loco driver b. Message
c. Command order d. None of the above

30. The brake application time through DBC in WAG-9 locos is
a. 06 to 09 secs b. 10 to 15 secs
c. 15 to 20 secs d. none of the above

31. Number of electronic cards available in E-70 panel
a. 4 b. 6
c. 2 d. 3

32. The pressure switch associated with working of Baby compressor is
a. Pn 26 b. Pn 60
c. Pn 59 d. Pn 6

33. The number of PBU available in WAP-7 locos is
a. 04 b. 12
c. 02 d. 08

34. The number of sanders to be kept in service in WAP-7 locos is
a. 08 b. 12
c. 04 d. None

35. In E-70 brake system locos the coc-47 is used for
a. Moving the loco dead b. Application of brakes through A9
c. Operation/Isolation of PBU d. Operation/Isolation of sanders

36. The size of choke available in sander circuit in WAG-9/WAP-7 locos is
a. 5.5mm b. 2mm
c. 3 mm d. 4mm

37. The switch used for isolation of vigilance control device is
a. 125 b. 154
c. 160 d. 237.1

38. The operating pressure of contactors in TC1, 2 & HF
a. 10kg/sqcm b. 6kg/sqcm
c. 5kg/sqcm d. 8kg/sqcm

39. The pressure switch used for monitoring working of pantograph is
a. Pn 44 b. Pn 60
c. Pn 09 d. Pn 26

40. **After completion of self-test in 3Ø locomotives following node will appear**

a. 590 b. 570
c. 550 d. 504

41. Conversion of BP control pressure into electrical signal in 3Ø locomotives is done by_____.

a. Pressure sensor b. Pressure switch
c. Pressure transducer d. None of the above

42. 260 indicate _____equipment.

a. Filter block b. SR rack
c. Pneumatic panel d. BUR

43. Valve set 13 consists of _____number of GTOs.

a. 2 b. 1
c. 4 d. 3

44. MUB GTO is present in _____valve set.

a. 12/1 b. 12/2
c. 12/2 d. 13/1

45. MU is not possible if _____card is defective in any one of the 3Ø locomotives.

a. SLG1 b. ALG1
c. FLG1 d. SLG2

46. If MVR is not picking up then_____.

a. Traction not possible b. RB not possible
c. Cooling mode not possible d. Driving mode not possible

47. _____&_____processor cards present only in VCU1 and VCU2 respectively.

a. FBV, DIA b. STB, FBV
c. ZBV, DIA d. STB, ZBV

48. _____no. of processor cards is interchangeable between VCU1 and VCU2 after reloading the appropriate software.

a. 2 b. 5
c. 6 d. 3

49. SLG1 & SLG2 is interchangeable by changing_____.

a. Hex address & Software b. Software
c. Hex address only d. Not interchangeable

50. TM speed sensor output is connected to _____card in the _____rack.

a. ASC PERI, SR b. NSC PERI, SR
c. STB, VCU d. HBB, VCU

51. Number of TFP and SR oil pressure sensors available in loco are _____ and _____respectively.

a. 4, 4 b. 4, 2
c. 2, 4 d. 1, 2

52. BUR 1 & 2 operate at _____Frequencies.

i) 37 Hz ii) 50 Hz iii) 44 Hz

a. I & II b. I, II & III

c. II only d. I & III

53. Consider following activities

1. SR changing
2. SRMPH changing
3. OCB radiator changing
4. VCB changing

Which of the above activities requires roof lifting?

a. 1 & 4 b. 2 & 3

c. 2 & 4 d. 1 & 3

54. Consider following activities

1. TM changing
2. Wheel Set changing
3. Axle damper changing
4. PHS changing

Which of the above activities requires loco lifting?

a. 1 & 4 b. 3 & 4

c. 2 & 3 d. 1 & 2

55. Correct arrangement of foot switches in 3Ø locomotives from Left to right in loco cab is_____.

| | L | M | R |
|---|---|---|---|
| a. | PVCD | PVEF | PSA |
| b. | PSA | PVCD | PVEF |
| c. | PVEF | PSA | PVCD |
| d. | PSA | PVEF | PVCD |

56. In SR1 rack of 3Ø locomotives, speed sensor connected to Sub-D "C" senses speed of _____.

a. TM 3 b. TM 2

c. TM 1 d. TM 4

57. Following combinations of gear ratios are used for WAG9 locomotive_____.

a. 23:58 & 20:72 b. 23:72 & 20:58

c. 20:72 & 21:107 d. 15:77 & 21:107

58. For performing shunting _____switch to be kept in _____position and the speed limit is _____kmph.

a. 154, 'I", 10 kmph
b. 152, '0", 5 kmph
c. 160, 'I", 15 kmph
d. 162, '0", 5 kmph

59. While working loco in _____mode, VCD need not be acknowledged.

a. Shunting b. Constant Speed

c. Inching mode d. Braking mode

60. Which of the following statement is correct.

a) Teeth of bull gear of WAG9 ≤ Teeth of bull gear of WAP7
b) Teeth of pinion of WAG9 > Teeth of pinion of WAP7
c) Teeth of bull gear of WAG9 > Teeth of bull gear of WAP7

d) None of the above

61. The number of teeth on the M/s ARC make Hall effect speed sensor ring are_____.

a. 30 b. 120
c. 60 d. 90

62. If the TM rotates at a speed of 600 rpm then the frequency of pulse generated by ARC make speed sensor is_____.

a. 1.8 KHz b. 0.6KHz
c. 0.3 KHz d. 1.2 KHz

63. Consider following statements

1. No Inductance variation between different phases of motor
2. Low IR value
3. Low Temp. rise above ambient during run test
4. Low dB level recorded during run test

Which of the above statements indicates healthy motor?

a. 1, 2 & 3 b. 2, 3 & 4
c. 1, 3 & 4 d. 1, 2 & 4

64. Contactor 52/2 in auxiliary circuit is used for redistribution of_____.

a. MRB b. SCTMB
c. TMB d. Battery Charger

65. If any one the BURs isolated which of the following indicates correct position of 52.4/1, 52.4/2, 52.5/1 &52.5/2 Contactors.

| | 52.4/1 | 52.4/2 | 52.5/1 | 52.5/2 |
|---|---|---|---|---|
| a. | close | close | close | open |
| b. | close | open | close | open |
| c. | close | open | close | close |
| d. | close | open | open | close |

66. Which of the following statements is correct?

a. 89.5 – Earth fault relay in auxiliary converter and it is located in HB1 panel
b. 89.5 – Earth fault relay in 415/110v and it is located in HB2 panel
c. 89.5 – Earth fault relay in auxiliary converter and it is located in HB2 panel
d. 89.5 – Earth fault relay in 415/110v and it is located in HB1 panel

67. 24V and 48V DC-DC converter feeds _____ and _____respectively.

a. Electronic rack cooling fan & Indication lamps
b. Indication lamps & Electronic rack cooling fan
c. Indication lamps & Head light
d. Head light & Indication lamps

68. Transformer in 3Ø locomotives is having _____number of windings.

a. 5 b. 6
c. 7 d. 8

69. MCB for machine room lightning is _____.

a. 310.1/1 b. 310.7
c. 338.1 d. 310.4

70. _____number of change over contactors are provided in auxiliary circuit of 3Ø locomotives.

a. 6 b. 9
c. 10 d. 8

71. Which of the following is not a valid zinfo for "ASC1:0082 PS fault storage GBC".

a. 1106 b. 120D
c. 130E d. 1406

**FILL IN THE BLANKS**

1. In STB1 signal "AMSB_0102 LVCB on" "L" Stands for _____
2. Horse power of a WAG-9 loco is _____
3. Gear ratio in WAP-7 loco is _____
4. Type of Traction motors used in WAG-9 locos _____
5. Maximum tractive effort of a WAG-9 loco is _____
6. Maximum speed of a WAG-9 loco is _____
7. Maximum braking effort of a WAG-9 loco is _____
8. Maximum tractive effort of a WAP-7 loco is _____
9. Maximum braking effort of WAP-7 loco is _____
10. Ampere- Hour capacity of a WAG-9 loco battery is _____
11. Parking brakes are provided on wheel no _____ in WAG-9 loco
12. Lubricant used in gear cases of three phases locos is _____
13. Number of Bus stations available in three phase locos is _____
14. For isolating VCD, switch no _____ is to be placed on _____
15. Switch no 154 has _____ positions.
16. ZV-MV valve set consists of _____ number of GTOs and _____ number of Diodes.
17. Axle load of WAP-7 loco is _____
18. Periodicity for POH of a WAP-7 loco is _____
19. Purpose of oil cooling blowers in three phase locos is to _____
20. IN SGCI Labyrinth, SGCI stands for _____
21. Traction motor mounting arrangements in three phase locos is _____
22. For raising PT-1 only from both cabs, _____ switch is to be placed in _____ position.
23. For switching over to failure mode operation _____switch is to be placed in _____ position.
24. Constant speed (BPCS) activates at _____ KMPH and above.
25. Parking brakes will not apply through `BPPB' if speed is more than _____ KMPH.
26. On throwing the reverser form `0' to forward (F) the node number changes from _____ to _____.
27. Number of DC to DC converters available in a three phase loco are _____
28. VCB trips when SR oil temperature rises above _____ degrees.
29. In three phase locos cable index "DG" indicates _____
30. In three phase locos cable index "DA" indicates _____
31. In FTIL locos feed pipe coc number is _____

32. While moving a three phase loco as dead the position of following cocs shall be COC-47 _____, COC-70 _____, COC-74 _____ & COC-136 _____.
33. Maximum BC pressure applied when DBC is kept in full service position is _____
34. During changing cab rear cab SA9 (DDBV) is isolated through _____
35. The brake release time through DBC in WAG-9 is _____ Seconds.
36. Anti-compounding valves are located near _____
37. The pressure switch used for vigilance control is _____.
38. The settings of compressor governors in WAG-9 locos are _____ and _____
39. In MU operation, when SA-9 is operated brakes are applied in rear loco through _____
40. The number paring brakes units available in WAG-9 locos is _____ and available on wheel no.s _____
41. In release position of DBC BP is charged upto _____
42. KW rating of a Oil Cooling Blower motor in three phase loco is _____
43. On throwing the reverser form `0' to forward the node number changes from _____ to _____.
44. Instrument lamps works on _____ volts.
45. Rating of head light lamp in three phase locos is _____ volts and _____ Watts.
46. Capacity of a battery in three phase loco is _____ AH.
47. Over current relay in three phase locos is _____.
48. Power converter is isolated by switch No. _____
49. Sub-system `06' corresponds to _____
50. Power factor in three phase locos is _____
51. Input and output of potential transformer is _____ and _____ respectively.
52. In an electronic card "PPB622 A01", `PPB622' stands for _____`A' stands for _____ and `01' stands for _____.
53. Oil used in gear case of WAG9 & WAP7 locos _____.
54. **"NSC2: 0082 PS fault storage GBC" with Zinfo:1312 hex indicates defect in _____valve set.**
55. Two locomotives of ELS/LGD are provided with TCN/VCU. The acronym TCN stands for _____.
56. In M/s BHEL make IGBT locomotives, TM1 firing is controlled by _____.
57. 25A8 module is controlled by _____M/s BHEL make IGBT SR.
58. Pre charging contactor in SR is used for _____.
59. When MCB 63.1/2 is tripped, It will consequently lead to_____.
60. 411 location indicates_____.
61. Limits of OHE voltage during working of WAG9 locomotive is _____kV to _____kV.
62. If temperature of SR exceeds_____degrees then TE/BE is reduced to '0' and exceeds_____degrees VCB will be off.
63. The letters V-O-F on cab buzzer indicates_____.

64. Self hold mode means_____.
65. The fault message F0101p1 results in_____.
66. S/R interlock activates after attaining a speed of _____kmph.
67. In _____mode, working of VCD can be tested on standstill position in 3Ø locomotives.
68. ZBV stands for_____.
69. Number of GTO Gate units available in SRs of locomotive are_____.
70. The brake rigging arrangement of WAP7 locomotives is similar to _____locomotive.
71. The grease used for lubrication of bearings of FRA 6068 is_____.

**SOUTH CENTRAL RAILWAY SECUNDERABAD DIVISION**

**SYLLABUS FOR PROMOTION AS JE-II IN SCALE Rs. 9300-34800+4200(GP) IN TRS ORGANISATION AGAINST 25% RANKERS QUOTA**

1. Study of Electricity ohms Law Magnetism Flemings R.H. Rule, L.H. Rule, Lenz's Law, BM Induction Parameters of D.C circuits, working principles of D.C. Machines, Characteristics, speed control.
2. Study of Characteristics, Armature, Reaction, Commutation Improvements for commutation and suitability of D.C. Series Motor for traction duty - study of Traction Motor used in A.C. Locomotives WAP4/5/7 & WAG5/7/9 Maintenance, repairs, overhaul.
3. A.C. Circuits, parameters of A.C. circuits, Simple calculations, study of power supply arrangements of A.C. traction.
4. Study of current collection in A.C. Locomotive, study of roof equipment of A.C. Loco.
5. Study of Transformer principle, overhaul and maintenance of Transformers, Auto-Transformers, conditions for parallel operation of transformer, study of transformer used in A.C. Loco WAP4/5/7 & WAG5/7/9 Maintenance and overhauling tests to be conducted on the transformer, study of tap changer, operation method for voltage control, Testing of transformer.
6. Study of fuse protectors, switches and isolators, construction and working detail of circuit breakers of A.C. Loco (DL).
7. Study of various type of contractors and relays, study of relays and contractors used in the A.C. Loco, B Drum, contactors. Function of blow out coil and arc chutes.
8. Study of Batteries, commissioners (initial charging) maintenance and reclamation and battery charging procedures.
9. Study Rectification methods, filters, study of Silicon rectifier, smoothening reactor in the Loco study of semi-conductor devices, battery charger.
10. Safe working on the locomotive precautions to be taken, Fire preventive measures in the locomotive and study of fire fighting.
11. Study of transmission lines and distribution lines and under ground cables, study of erecting the lines determination of conductor size and re-cabling of locomotives.
12. Study of 3 phase induction motors principle, maintenance and overhauling, study of Induction generator, working principles, study of Arno, Aux, machines of A.C. Loco. **Maintenance of Three phase traction motor FRA 6068 and its cooling arrangement. Speed sensor and temperature sensor of traction motor and their importance in Three phase locomotives.**
13. Study of Earth testing procedure, insulation test for various equipments and testing of insulators.
14. Study of power factor and the improvement methods demand and economy in installation of Electrical energy.

15. Study of circuit, analysis of WAP4/5/7 & WAG5/7/9 locomotive i.e study of circuits, cabling Index and other drawings. **Cooling circuit of WAP7 and WAG9 locomotives.**
16. Three Phase locomotives: **Battery charging arrangement in 3Ø locomotives. Auxiliary power supply and load sharing between BURs during normal condition and during isolation of one BUR. Understanding the working of various contactors associated with Harmonic filter. Understanding of various MCBs provided in HB and SB panels and their importance in trouble shooting various faults.**
17. Three Phase locomotives-Pneumatic system: **understanding of BP charging in 3Ø locomotives in E70 brake system. Brake application and release using A9 and SA9. Different kinds of braking available in three phase locomotives. Overview of Brake electronics. Understanding the E70 tri-plate panel-various cocs, valves and their location and position.**
18. Three Phase locomotives - Features: **Protective functions in three phase locomotive(ABB document 3EHP 541526), working of VCD, Failure mode operation, Inching mode operation, Constant speed control, Traction Interlock, SR Interlock and Indication of faults using BPFA & LSFL.**
19. Measurements of Resistance, current voltage, power study of various types meters and equipment used, megger, diode tester, ammeter, Voltmeter etc., Uses of shunts, multipliers.
20. Study of WAP4/5/7 & WAG5/7/9 Bogie, wheel arrangements, suspension arrangements and all mechanical features like elements of Vibration, Oscillation, Damping devices, Elasticity etc.
21. Study of Sander gear and Brake rigging, various types of brake systems in A.C Loco.
22. Study of Pneumatic circuitary of WAP4/5/7 & WAG5/7/9, Study of various Pneumatic Valves, braking system (E System)
23. Study of stores and accountal correspondence.
24. Study of maintenance schedules for various equipment in the A.C. Locomotive, its periodicity.
26. Study of Locomotive, testing, engine fitness and trouble shooting procedure.
27. RDSO modification and SMIs implementation and maintenance of various records.
28. New equipments in loco such as MPCS, SIV, VCD and WMUCS and **understanding basic features of M/s BHEL make IGBT locomotives.**

# ANSWERS

## I. Choose the right answer

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | (c) | 2. | (a) | 3. | (c) | 4. | (c) | 5. | (d) |
| 6. | (a) | 7. | (b) | 8. | (c) | 9. | (c) | 10. | (d) |
| 11. | (b) | 12. | (b) | 13. | (c) | 14. | (c) | 15. | (d) |
| 16. | (c) | 17. | (c) | 18. | (c) | 19. | (b) | 20. | (c) |
| 21. | (b) | 22. | (c) | 23. | (c) | 24. | (b) | 25. | (d) |
| 26. | (a) | 27. | (a) | 28. | (c) | 29. | (c) | 30. | (c) |
| 31. | (b) | 32. | (d) | 33. | (c) | 34. | (a) | 35. | (b) |
| 36. | (b) | 37. | (d) | 38. | (a) | 39. | (a) | 40. | (a) |
| 41. | (b) | 42. | (d) | 43. | (a) | 44. | (c) | 45. | (b) |
| 46. | (b) | 47. | (d) | 48. | (a) | 49. | (b) | 50. | (d) |
| 51. | (b) | 52. | (b) | 53. | (a) | 54. | (c) | 55. | (b) |
| 56. | (d) | | | | | | | | |

## II. Fill in the blanks:

1. 16:65
2. 20.5 ± 2% tones
3. 16:65
5. 75
6. Blower for cooling transformer oil
7. WAP-4
8. 3mm
9. Parallel
10. Commutation
11. Higher
12. Main compressor and motor
13. Dissolved gas analysis
14. 1.875Ω
15. AM-12
16. Bridge
17. TM over voltage relay
18. Two
19. Generator
20. Panto graphs
21. 04
22. 20/25 to 25/30

23.3.5 kg/$cm^2$
24.107 to 117
25.Proportional
26.150
28.ZLS
29.630
30.6.5
31.45

**III. Match the following**:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| a) | 6 | b) | 8 | c) | 7 | d) | 3 | e) | 2 |
| f) | 5 | g) | 1 | h) | 4 | i) | 9 | j) | 10 |

41) C3W valve, VAIB valve, D1 differential valve, synchronizing valve

43) a) 5A b) 4.5A c) 160/130 d) 215/265
e) 9A

**Questions on DAR, Stores, Personnel & General matters**

2) SF-V to be used when it is proposed to take up an employee for imposition of major penalty.

**Question of Official Language**

3.
(i) Quality
(ii) Useful
(iii)Maintenance
(iv)Auxiliaries
(v) Purpose

5. Translate into English
(i) Electrical protection/Safety
(ii) Maintenance
(iii) Fire accident
(iv) Attendance register
(v) Examination

**Descriptive Question**

27. CKT
33.BP, FP, Brake power
45. 16.65
46. 1092 mm
47. 1016 mm
49. 10 mm
51. 1596 mm
54. 1600 ± 2

56. Lateral clearance end axles min to max – 4mm. Middle axle → min-2.4mm max-
6mm. Longitudinal clearance → min – max – 4mm.
57. 0.5mm
58. 2 mm
59. 15 mm
60. 1030 to 1105
61. 104 to 119
64. Modified – 185 mm
67. To circulate the oil in SB
68. 1900 mm
69. Brinell hardness number with box spanner and torque wrench tighten the bolt upto
required torque.
72. Motor suspension unit
73. 8.5 litres
75. 12
76. Centre buffer coupler
77. Two stage suspension
79. By DP test

**OBJECTIVE TYPE QUESTIONS:**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | (c) | 2. | (a) | 3. | (b) | 4. | (c) | 5. | (c) | 6. | (c) |
| 7. | (b) | 8. | (a) | 9. | (b) | 10. | (d) | 11. | (b) | 12. | (d) |
| 13. | (c) | 14. | (d) | 15. | (a) | 16. | (a) | 17. | (d) | 18. | (a) |
| 19. | (c) | 20. | (b) | 21. | (a) | 22. | (c) | 23. | (c) | 24. | (a) |
| 25. | (c) | 26. | (a) | 28. | (c) | 29. | (b) | 30. | (d) | 31. | (a) |
| 32. | (c) | 38. | (b) | 39. | (c) | 40. | (d) | 41. | (c) | 42. | (b) |
| 43 | (a) | 44. | (c) | 45. | (b) | 46. | (b) | 47. | (a) | 48. | (c) |
| 49. | (d) | 50. | (b) | 51. | $pbo_2$ | 52. | (b) | 53. | (a) | 54. | (a) |
| 55. | (c) | 56. | (d) | 57. | (a) | 58. | (a) | 59. | (b) | 60. | (b) |
| 62. | (b) | 63. | (a) | 64. | (b) | 65. | (b) | 66. | (a) | 67. | (c) |
| 68. | (d) | 69. | (d) | 70. | (c) | 71. | (d) | 72. | (c) | 73. | (c) |
| 74. | (b) | 75. | (a) | 76. | (d) | 78. | (b) | 79. | (b) | | |

81.DU
82. DI
83. 5A
84. AC pulses
85. One lakh ohms
86. 1.6mΩ
87. 3HP
88. Continuity of fuse
89. Charger working
90. Batteries
91. N
92. Gassing
93. Sulphation
94. DI – Electric heat disipaction factor
96. To give dry air and absorb the moisture in the oil
97. Kick

98. 865V drop out at 740 V
99. High currents
100. c
101. 5
102. Shunting resistance
104. Minizol oil
106. Failure rate percentage per year
108. Rollar bearing
109. Chock the bearings
110. F
111. Supply of power
112. White
113. BDV test
122. 0.08 mm
123. 13mm (11.5 to 13.5mm)
124. Close
125. 4.5 $kg/cm^2$
127. 60/minute
128. 3.5 $kg/cm^2$
130. 8 to 10 $kg/cm^2$
133. 800-900 grams
134. 8.5 ± 1mm
135. 5 to 8 kg contact (C118) air gap 16 to 18 mm
137. Cool the transformer winding
138. Temperature
141. Sulphuric Acid
142. 1240
143. C108
144. Specific gravity
147. 60 KVA
148. CGRS
150. 380 to 415V output 110V
151. C
152. 230V AC
153. 2mm
154. 2mm
155. 120 sq mm
156. 3000 rpm
159. 1.6 mΩ
160. 3 X 3200Ω
161. 0.4Ω
162. 210Ω
163. 0.03mΩ
164. 1250Ω
165. 0.03Ω
166. 0.03Ω/0.03Ω/0.03Ω/0.03Ω
168. Amps
169. Sarge comparision tester
170. 75A
171. 4
172. Air forced
173. 535VDC 340A

175. 2.1mm
176. 0.6 to 1.5mm
177. 60 new/32 condm
184. 5kg/$cm^2$
185. 6kg/$cm^2$
186. 0.7kg/$cm^2$ for 5 minutes
187. 0.7kg/$cm^2$ for 5 minutes
190. 8 to 9.5kg/$cm^2$
191. 4.5/5.0kg/$cm^2$
192. 0.2 to 1.0 kg/$cm^2$
193. 0.6 kg/$cm^2$
195. 4.6 to 4.9 kg/$cm^2$
196. 4.4 to 4.7 kg/$cm^2$
198. 2.8/4.2 kg/$cm^2$
199. 9.6 kg/$cm^2$
200. 11.0 ± 2kg/$cm^2$
201. 11.5 kg/$cm^2$
202. 3.5 kg/$cm^2$
203. 6/12 sec
204. 9/12 sec
205. 6 to 9 sec releasing 9-12 sec
206. 20/25 sec
207. 6 to 10 kg/$cm^2$
208. 6 to 10 sec
209. pan to pan
210. 4.9kg/$cm^2$
211. 6 kg/$cm^2$
212. Throttle valve
213. Throttle valve
215. CP
216. HS4
217. MR-4
218. Replacement of ½" from ¾" from MR-3 to AFMV and additional, C2 relay valve to
BP
219. Provision of after cooler drain cock in extention position
221. 3.75 kg/$cm^2$
222. Provision of separate fuse for static inverter central cut
223. 58/53 $cm^2$
224. 1.4 to 1.7 kg/$cm^2$
225. MRC-2
226. CPS
227. 35mm
228. 2 kg/$cm^2$
230. IA, IB, IC, AOH, IOH
231. T.I, G/C, V/C
234. 18 months
235. 54 months or 6 lakhs kms
236. 9 years or 12 lakhs kms
237. 135 days
238. 90 days
239. 6 years or 8 lakhs kms

240. 36 months – 4 lakhs kms
242. 135 days
243. 45 days
245. 2500
246. E5
247. M3M5
248. M6
249. PPIO
250. Drawing
251. Technical
253. Major
254. E3TM
255. E6
256. M6
257. NS
258.
1. Chittaranjan Loco works
2. Central organization for modification of work shops
3. Director general of supply & disposal
4. Machinery & plant
5. Rolling stock programme
6. Proprietary article certificate
7. Part list no.
8. Rail India Technical Economic Services Ltd

259. 2 Lakhs
260. 5 Lakhs
261. 10 Lakhs
262. 10,000/-
263. S-1302A
264. S-1830
270. 70%
271. 20%
277. SF-III
279. SF-V
281. 20
286. Penalty
289. 1968
314. Sr.DPO
316. 30%
318. Two
320. SSE
321. SSE
322. Schedule of Powers
331. Member of All India Services/RPF
332. Casual
338. SF-11
339. SSE

1. (c) 2. (ii) 3. (a) 4. (b) 5. (a) 6. (i) 7. (a)

**Match the following (3Ø)**

1. a-4, b-1, c-6, d-7, e-3
2. a-2, b-1, c-5, d-3, e-4
3. a-2, b-3, c-1, d-5, e-4
4. a-2, b-3, c-1, d-5, e-6
5. a-4, b-2, c-5, d-1, e-3
6. a-2, b-5, c-1, d-4, e-3
7. a-3, b-5, c-4, d-2, e-1
8. a-2, b-3, c-5, d-4, e-1
9. a-2, b-3, c-4, d-1
10. a-3, b-2, c-5, d-1, e-4
11. a-2, b-4, c-1, d-3
12. a-2, b-4, c-1, d-3
13. a-2, b-4,c-1, d-3
14. a-2, b-3, c-1, d-4
15. a-2, b-1, c-5, d-4, e-3
16. a-2, b-3, c-1, d-4

**CHOOSE THE CORRECT ANSWER**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | (b) | 2. | (b) | 3. | (b) | 4. | (a) | 5. | (c) | 6. | (c) |
| 7. | (c) | 8. | (b) | 9. | (d) | 10. | (c) | 11. | (d) | 12. | (a) |
| 13. | (c) | 14. | (c) | 15. | (b) | 16. | (c) | 17. | (c) | 18. | (b) |
| 19. | (b) | 20. | (d) | 21. | (b) | 22. | (b) | 23. | (c) | 24. | (b) |
| 25. | (a) | 26. | (b) | 27. | (b) | 28. | (b) | 29. | (a) | 30. | (d) |
| 31. | (a) | 32. | (a) | 33. | (a) | 34. | (a) | 35. | (a) | 36. | (c) |
| 37. | (d) | 38. | (d) | 39. | (c) | 40. | (d) | 41. | (c) | 42. | (c) |
| 43. | (d) | 44. | (d) | 45. | (c) | 46. | (c) | 47. | (c) | 48. | (b) |
| 49. | (a) | 50. | (a) | 51. | (b) | 52. | (a) | 53. | (d) | 54. | (d) |
| 55. | (d) | 56. | (b) | 57. | (c) | 58. | (c) | 59 | (c) | 60. | (c) |
| 61. | (b) | 62. | (d) | 63. | (c) | 64. | (d) | 65. | (d) | 66. | (d) |
| 67. | (b) | 68. | (c) | 69. | (d) | 70 | (b) | 71. | (d) | | |

**FILL IN THE BLANKS**

1.Line voltage CKT
2. 6000 HP
4. 3Ø slipring Induction motor
5. 47 tonnes
6. 100 kmph
13. 7
15. 4
16. 4 number of GTOs and 4
17. 20.5+2%
18. 9 years ± 6 months
24. 5
27. 4
28. 50°C
46. 190
48. 154
49. BUR-1

51. 25KV/200V
54.12/2
55. Train Communication Network
56. DCU2
57. DCU3
58. Reducing inrush current
59. Bogie isolation due to high converter oil temperature
60. VCU1 rack
61. 17.5 kV and 30 kV
62. 64, 80
63. Vigilence, Over speed and Fire
64. CEL will remain active for 10 mins.
65. Main power off
66. 10 kmph
67. Simulation
68. MU train bus
69. 30
70. WAG7
71. SHC 120

**SYLLABUS FOR PROMOTION AS JE-II IN SCALE**
**Rs. 9300-34800+4200(GP) IN ELECTRICAL/TRS ORGANISATION**
**AGAINST 25% LDCE QUOTA**

## TRACTION ROLLING STOCK

Should have good knowledge about:-

I. a) General details of WAP-4, WAP-5, WAP-7 and WAG-5, WAG-7, WAG-9 and 1 A.C/3-Phase Locomotives and working of major equipments.

b) Power, Auxiliary and control circuits.

c) Trouble shooting, Loco repairs and over-haul of all electrical equipments.

d) Pneumatic circuit, brake system

e) Various types of schedules.

f) Different lubricants used in WAP-4/5/7 and WAG-5/7/9 & 1 AC/3-Phase Locomotives.

g) Electrical fire, their causes and prevention

h) Safe working rules/Electricity Act.

i) Shock treatment, first aid and use of fire extinguisher.

j) Analysis and invention of failures and TRD requirement of workers.

k) Maintenance of records in PPIO.

II. a) Railway service conduct Rules, Pass Rules, D&A Rules, Hours of employment regulations, payment of wages Act, WC Act.

b) Procurement of stores – stocked items and non-stocked items – Imprest stores Disposal of unserviceable stores – stock verification.

c) Rules and Regulations about Official Language.

# पूरा नाम लिखें / Abbreviations

| | |
|---|---|
| 1. A9 | आटोमेटिक ब्रेक वाल्व<br>Automatic brake valve |
| 2. AG | ऑक्झलरी जनरेटर<br>Auxiliary Generator |
| 3. ACCR | आर्मेचर कंरट कंट्रोल रिएक्टर<br>Armature current control reactor |
| 4. AGFB | ऑक्झलरी जनरेटर फिल्ड ब्रेकर<br>Auxiliary Generator field breaker |
| 5. AFPB | एडीशनल फ्यूल पंप ब्रेकर<br>Additional fuel pump breaker |
| 6. BA | बैटरी ऍमीटर<br>Battery ammeter |
| 7. BAS | बैटरी ऍमीटर शंट<br>Battery ammeter shunt |
| 8. BAP | बूस्टर एयर प्रेशर<br>Booster air pressure |
| 9. BHEL | भारत हेवी इलेक्ट्रीकल्स लिमिटेड<br>Bharat heavy electrical limited |
| 10. BKBL | डायनामिक ब्रेकिंग ब्लोअर मोटर<br>Dynamic breaking blower motor |
| 11. BKR | ब्रेकिंग रिले<br>Braking relay |
| 12. BKT | ब्रेकिंग और ट्रॅक्शन स्विच<br>Braking and traction switch |
| 13. BP | ब्रेक पाईप<br>Brake pipe |
| 14. BS | बैटरी नाइफ स्विच<br>Battery knife switch |
| 15. CB | सर्किट ब्रेकर<br>Circuit breaker |
| 16. CBC | सेंटर बफर कपलर<br>Center buffer suppler |
| 17. CCM | क्रेंक केस एग्झास्टर मोटर<br>Crank case exhauster motor |
| 18. CEB | क्रेंक केस एग्झास्टर ब्रेकर<br>Crank case exhauster breaker |
| 19. CK1,2,3 | क्रेंकिंग कॉन्टेक्टर<br>Cranking contactor |
| 20. COC | कट-आऊट कॉक<br>Cut out cock |
| 21. CKC | मेन क्रेंकिंग कॉन्टेक्टर<br>Main cranking contactor |
| 22. CKR1,2 | क्रेंकिंग रिले |

| | |
|---|---|
| | Cranking relay |
| 23.CVR | सी वाल्व रिले |
| | C valve relay |
| 24.DLCB | डोम लाईट सर्किट बेकर |
| | Dome light circuit breaker |
| 25.DLW | डीजल लोकोमोटिव वर्कशाप, वाराणसी |
| | Diesel locomotive workshop Varanasi |
| 26.DMW | डीजल मॉडराइजेशन वर्कशाप, पटियाला |
| | Diesel modernization workshop Patiyala |
| 27.DMR | डेड मेन्स रिले |
| | Dead mans relay |
| 28.ECC | एडी करंट क्लच क्वाइल |
| | Eddy current clutch coil |
| 29.ECP | इंजिन कंट्रोल पैनल |
| | Engine control panel |
| 30.ECS | इंजिन कंट्रोल स्विच |
| | Engine control switch |
| 31. EH | इलेक्ट्रोहायड्रोलिक |
| | Electro hydraulic |
| 32.ETS1,2,3 | इंजिन टैम्परेचर स्विच |
| | Engine temperature switch |
| 33.ERR | इंजिन रनिंग रिले |
| | Engine running relay |
| 34.ESLP | इंजिन स्टार्ट लैम्प |
| | Engine start lamp |
| 35.ESR1,2, 3,4 | इंजिन स्पीड रिले |
| | Engine speed relay |
| 36.FP | फीड पाईप |
| | Feed pipe |
| 37.FPB | फ्यूल पंप ब्रेकर |
| | Fuel pump breaker |
| 38.FPC | फ्यूल पंप कॉन्टेक्टर |
| | Fuel pump contacter |
| 39.FPM | फ्यूल पंप मोटर |
| | Fuel pump motor |
| 40.FIP | फ्यूल इंजेक्शन पंप |
| | Fuel injection pump |
| 41. FL | फ्लॅशर लाईट |
| | Flasher light |
| 42.FTTM | फ्रंट ट्रक ट्रॅक्शन मोटर (ब्लोअर) |
| | Front truck traction motor blower |
| 43.GFC | जनरेटर फील्ड कॉन्टेक्टर |
| | Generator field contactor |
| 44.GR | ग्राऊंड रिले |

| | |
|---|---|
| | Ground relay |
| 45.GFCO | जनरेटर फील्ड कट-आऊट स्विच |
| | Generator field cut out switch |
| 46.GFOLR | जनरेटर फील्ड ओवर लोड रिले |
| | Generator field over load relay |
| 47.HLB | हेड लाईट ब्रेकर |
| | Head light breaker |
| 48.HP | हॉर्स पावर |
| | Horse power |
| 49.IRAB1 | इंडियन रेल्वे एयर ब्रेक सिस्टम |
| | Indian railway air brake system |
| 50.Kmph | किलोमीटर प्रति घंटा |
| | Kilometer per hour |
| 51. LAS | लोड अमीटर शंट |
| | Load ammeter shunt |
| 52.LCP | लोड कंट्रोल पोटेंशिओमीटर |
| | Load control potentiometer |
| 53.LWS | लो वाटर स्विच |
| | Low water switch |
| 54.MH | मास्टर हैण्डल |
| | Master handle |
| 55.MB1 | मेन बैटरी ब्रेकर |
| | Main battery breaker |
| 56.MB2 | मेन कंट्रोल ब्रेकर |
| | Main control breaker |
| 57.MCB1&2 | मास्टर कंट्रोल ब्रेकर |
| | Master control breaker |
| 58.MCO | मोटर कट-आऊट स्विच |
| | Motor cut out switch |
| 59.MFPB1&2 | मास्टर फ्यूल पंप ब्रेकर |
| | Master fuel pump breaker |
| 60.MR | मेन रिजर्वायर |
| | Main reservoir |
| 61. MTR | मॅन्युअल ट्रांजिशन स्विच |
| | Manual transition switch |
| 62.MU | मल्टीपल युनिट |
| | Multiple unit |
| 63.MUSD | मल्टीपल युनिट शट डाऊन स्विच |
| | Multiple unit shutdown switches |
| 64.OPS | ऑयल प्रेशर स्विच |
| | oil pressure switch |
| 65.OSTA | ओवर स्पिड ट्रिप असेंब्ली |
| | Over speed trip assembly |
| 66.PC | पावर कांटेक्टर |

Power contactor

67. PCS न्युमैटिक कंट्रोल स्विच
Pneumatic control switch

68. P1,31,21,2,32,22 पैरेलल पावर कॉंटेक्टर
Parallel power contactor

69. PWM पल्स विडथ मॉडयुलेटर
Pulse widths modulator

70. R1&2 रेडिएटर फैन कांटेक्टर
Radiator fan contactor

71. RCD रिर्वस करंट डायोड
Rivers current diode

72. REV रिर्वसर कांटेक्टर
Reverser contactor

73. RH रिर्वसर हैंडल
Reverser handle

74. RTTM रियर ट्रक ट्रॅक्शन मोटर( ब्लोअर)
Rear truck traction motor bower

75. S1,31,21 सिरीज पावर कांटेक्टर
Series power contactor

76. SAR सेफ्टी ऑक्झलरी रिले
Safety auxiliary relay

77. SR सिगनल रिले
Signal relay

78. SLP सिगनल लैंप
Signal lamp

79. SH सलेक्टर हैंडल
Selector handle

80. TA ट्रॅक्शन अल्टरनेटर
Traction Alternator

81. TG ट्रॅक्शन जनरेटर
Traction Generator

82. TH थ्रॉटल हैडल
Throttle handle

83. TM ट्रॅक्शन मोटर
Traction motor

84. TR ट्रांजीशन रिले
Transition relay

85. TRP ट्रांजीशन पैनल
Transition panel

86. TSC टर्बो सुपर चार्जर
Turbo super charger

87. VCR वोल्टेज कंट्रोल रिएक्टर
Voltage control reactor

88. VRP वोल्टेज रेग्यूलेटिंग पैनल

| | |
|---|---|
| | Voltage regulating panel |
| 89.WW | वुड वर्ड |
| | Wood ward |
| 90.WSR | व्हील स्लिप रिले |
| | Wheel slip relay |
| 91. WSRR | व्हील स्लिप रिले रजिस्टेंस |
| | Wheel slip relay résistance |
| 92.TCR | टेंम्परेचर कंट्रोल रजिस्टेंस |
| | Temprature control resistance |
| 93.TET | ट्रांजीशन एक्साईटेशन ट्रांसफार्मर |
| | Transition excitation transformer |
| 94.AR | ऑक्झलरी रिजर्वायर |
| | Auxiliary reservoir |
| 95.BC | ब्रेक सिलेंडर |
| | Brake cylinder |
| 96.SPM | स्पीडोमीटर |
| | Speedometer |
| 97.RFCB | रेडिएटर फैन सर्किट ब्रेकर |
| | Radiator fan circuit breaker |
| 98.PDR | पावर डायोड रेक्टीफ़ायर ब्लोअर मोटर |
| | Power diode rectifire blower motor |
| 99. MPCB | माइक्रोप्रोसेसर सर्किट ब्रेकर |
| | Microprocessor Circuit breaker |
| 100. PLPB | प्रि-ल्युब्रीकेशन पम्प ब्रेकर |
| | Pre-lubrication pump breaker |
| 101. ADB | एनालॉग डिस्ट्रीब्यूशन बॉक्स |
| | Analog distribution box |
| 102. RDB | RPM डिस्ट्रीब्यूशन बॉक्स |
| | RPM distribution box |
| 103. EXPR | एक्साइटर जनरेटर प्रोटैक्शन रिले |
| | Exciter generator protection relay |
| 104. AGPR | ऑक्जलरी जनरेटर प्रोटैक्शन रिले |
| | Auxiliary generator protection relay |
| 105. CMR | कम्प्रैशर रिले |
| | Compressor relay |
| 106. AFLR | ऑटो फ्लैशर लाइट रिले |
| | Auto flasher light relay |
| 107. VCD | विजिलैंस कंट्रोल डिवाइस |
| | Vigilance control device |
| 108. VCDR | विजिलैंस कंट्रोल डिवाइस रिले |
| | Vigilance control device relay |
| 109. SLBR | सेल्फ लोड बॉक्स रिले |
| | Self load box relay |
| 110. MVR | मैगनेट वाल्व रिले |

| | |
|---|---|
| | Magnet valve relay |
| 111. TANGI | ट्रैक्शन अल्टरनेटर न्यूट्रल ग्राउण्डिंग करंट सेंसर<br>Traction alternator neutral grounding current sensor |
| 112. BANGI | बैट्री नैगेटिव ग्राउण्डिंग करंट सेंसर<br>Battery negative to ground current Sensor |
| 113. EOT | इंजन ओयल टेम्प्रेचर सेंसर<br>Engine oil temperature sensor |
| 114. BATI | बैट्री करंट सेंसर<br>Battery current sensor |
| 115. AAT | एम्बिएंट एयर टेम्प्रेचर सेंसर<br>Ambient air temperature sensor |
| 116. MRPR | मेंन रिजर्वायर प्रेशर सेंसर<br>Main Reservoir pressure sensor |
| 117. TMAI | ट्रेक्शन मोटर आर्मेचर करंट सेंसर<br>Traction motor armature current sensor |
| 118. TAAI | ट्रेक्शन अल्टरनेटर आर्मेचर करंट सेंसर<br>Traction Alternator armature current sensor |
| 119. APR | अल्टीट्युड प्रेशर सेंसर<br>Altitude pressure sensor |
| 120. TAV | ट्रेक्शन अल्टरनेटर वोल्टेज सेंसर<br>Traction Alternator voltage sensor |
| 121. EXAI | एक्साइटर जनरेटर आर्मेचर करंट सेंसर<br>Exciter generator armature current sensor |
| 122. EXFI | एक्साइटर जनरेटर फील्ड करंट सेंसर<br>Exciter generator field current sensor |
| 123. LCPV | लोड कंट्रोल पुटेंशियोमीटर वोल्टेज सेंसर<br>Load control potentiometer voltage sensor |
| 124. BKCPV | ब्रेकिंग पुटेंशियोमीटर वोल्टेज सेंसर<br>Braking potentiometer voltage sensor |
| 125. BCR | बैट्री चार्जिंग रेक्टीफायर<br>Battery Charging Rectifier |
| 126. BCT | ब्रेक सिलेंडर ट्रांसड्यूशर<br>Brake cylinder transducer |
| 127. BCA | बैट्री चार्जिंग असेम्बली<br>Battery charger assembly |
| 128. B1-B4 | ब्रेकिंग कोंटेक्टर<br>Braking contactor |
| 129. BPT | ब्रेक पाईप ट्रांसड्यूशर<br>Brake pipe transducer |
| 130. CCU | कॅब कंट्रोल यूनिट<br>Cab Control Unit |
| 131. CCB | कम्प्यूटर कंट्रोल ब्रेक सिस्टम<br>Computer Control Brake System |
| 132. DVR | डिजिटल वोल्टेज रेगुलेटर |

| | | |
|---|---|---|
| | | Digital voltage regulator |
| 133. | DCL | डायरेक्ट करंट लिंक<br>Direct Current Link |
| 134. | ECC | इलैक्ट्रीकल कंट्रोल कैबिनेट<br>Electrical Control Cabinet |
| 135. | ECP | इंजन कंट्रोल पैनल<br>Engine Control Panel |
| 136. | EPD | इंजन प्रोटेक्टिव डिवाइस<br>Engine Protective Device |
| 137. | ERS | इंजन रन स्विच<br>Engine Run Switch |
| 138. | EMD | इलैक्ट्रोमोटिव डिवीजन<br>Electromotive division |
| 139. | EFCO | इमर्जेंसी फ्यूल कट आफ स्विच<br>Emergency Fuel Cut Off Switch |
| 140. | FPS | फ्यूल पंप स्विच<br>Fuel Pump Switch |
| 141. | GTO | गेट टर्न आफ<br>Gate Turn Off |
| 142. | GFS | जनरेटर फील्ड स्विच<br>Generator field switch |
| 143. | HLPR | हेल्पर मोड<br>Helper Mode |
| 144. | HTSC | हाई टेंशाइल स्टील कास्टेड<br>High Tensile Steel Casted |
| 145. | IGBT | इंसुलेटिड गेट बाइपोलर ट्रांजिस्टर<br>Insulated gate bipolar transistor |
| 146. | KN | किलो न्यूटन<br>Kilo Newton |
| 147. | KW | किलो वाट<br>Kilowatt |
| 148. | LLOB | लो ल्यूब आयल बटन<br>Low Lube Oil Button |
| 149. | MRPT | मैंन रिजर्वायर प्रेशर ट्रांस्ड्यूसर<br>Main Reservoir pressure transducer |
| 150. | MVCC | मैग्नेट वाल्व फार कंप्रेशर कंट्रोल<br>Magnet valve for compressor control |
| 151. | SCR | सिलिकान कंट्रोल रेक्टीफायर<br>Silicon control rectifier |
| 152. | ST | स्टार्टिंग कांटेक्टर<br>Starting contactor |
| 153. | STA | स्टार्टिंग आक्जलरी कांटेक्टर<br>Starting Auxiliary contactor |
| 154. | TLPR | टर्बो ल्यूब आयल पंप |

| | | |
|---|---|---|
| | | Turbo Lube Oil Pump |
| 155. | TCC | ट्रेक्शन कन्वर्टर कैविनेट<br>Traction Converter cabinet |

## रिक्त स्थानों की पूर्ती करो / Fill in the Blanks

1. WDG3A लोको का कम्प्रेशन रेशो----------होता है. (12.5:1)
   Compression ratio of WDG3A loco is ----------.
2. WDG3A लोको में इंजन की हार्स पावर ----------HP होती है. (3100)
   Engine Horse power of WDG3A loco is----------HP
3. WDG3A लोको का एक्सल लोड ----------टन होता है. (20.5)
   Axel load of WDG3A loco is----------tone
4. WDG3A लोको की अधिकतम गति----------होती है. (105)
   Max speed of WDG3A loco is ----------.
5. WDG3A लोको में 8 नाच पर इंजन की गति-----rpm होती है. (1050) 8th notch engine RPM of WDG3A loco is ----------.
6. TDC का पूरा नाम----------होता है. (टाप डेड सेंटर)
   Full name of TDC is----------.
7. WDG3A लोको में ओवर लेप पिरियड----------होता है. ($140^0$ )
   Over lap period in WDG3A loco is----------.
8. WDG3A लोको में-------टाइप की बोगी लगी है. (हाई एढेशन)
   ---------- Type bogie is fitted in WDG3A loco.
9. WDG3A लोको में ----------प्रकार का ब्रेक सिस्टम लगा है. (IRAB-1)
   ---------- Type brake system is provided in WDG3A loco.
10. WDG3A लोको में----------हैण्ड ड्राइविंग है. (लेफ्ट)
    WDG3A loco is ----------hand driving
11. WDG3A लोको में सिलिण्डरों की संख्या----------है. (16)
    No of cylinder in WDG3A loco are----------.
12. WDG3A लोको में----------प्रकार का इंजन ब्लाक लगा है. (251B Up rated)
    ----------Type of engine block is provided in WDG3A loco.
13. WDG3A लोको में गियर रेशो---------होता है. (18:74)
    Gear ratio of WDG3A loco is ----------
14. WDG3A लोको का ट्रैक्टिव एफर्ट-------- होता है. (37.8 टन)
    Tractive effort of WDG3A loco is ----------
15. WDG3A लोको का एढैशन ----होता है. (30%)
    Adhesion of WDG3A loco is ----------
16. WDG3A लोको का फायरिंग आर्डर---------होता है. (1,4,7,6,8,5,2,3)
    Firing order of WDG3A loco is ----------
17. WDG3A लोको में OSTA ------RPM पर सेट है. (1180±20)
    In WDG3A loco OSTA setting is ----------RPM.
18. WDG3A लोको की हॉर्स पावर ----होती है. (2900)
    HP of WDG3A loco is ----------
19. WDG3A लोको में RTTM में बेल्ट की संख्या-----होती है. (6)
    In WDG3A loco ----------belts are provided on RTTM.
20. WDG3A लोको में वाइब्रेशन डेम्पर ----------एंड पर लगा है. (फ्री)
    Vibration damper is located on ----------end in WDG3A loco.
    In WDG3A loco ---------- traction motor are provided.
21. WDG3A लोको के नोज कम्पार्टमेंट वाले सिरे को ---कहते हैं. (शार्ट हुड)
    Nose compartment end is called---------- in WDG3A loco.

22. WDG3A लोको के रेडियेटर वाले सिरे को------कहते हैं. (लोंग हुड)
Radiator room end is called---------- in WDG3A loco.

23. इंजन के पुर्जों की गिनती---से---एंड की तरफ की जाती है. (फ्री एंड से पावर - टेक आँफ एंड)
Counting of engine part takes place from ---------- to----------

24. इंजन रूम के जनरेटर लगे सिरे को --------कहते हैं. (पावर टेक आँफ एंड)
Engine room end where generator is fitted is called ----------

25. WDG3A लोको लोको का सीरिज् ---और ------है. (13 तथा 14)
Series of WDG3A loco are ----------and----------

26. WDG3A लोको में MU2B वाल्व-----मे लगा है. (नोज रूम)
MU2B valve is located in----------compartment in WDG3A loco

27. WDG3A लोको में EPG का टाँगल स्विच----मे लगा है. (लैफ्ट कंट्रोल स्टैण्ड)
EPG toggle switch is located in---------- in WDG3A loco.
Battery knife switch is located in ----------compartment in WDG3A loco

28. WDG3A लोको में ¾" COC---------- मे लगा है. (नोज रूम )
¾" COC is located in ---------- compartment in WDG3A loco

29. WDG3A लोको मे C2 रिले वाल्व ----------मे लगा है. (नोज रूम)
C2 Relay valve is located in ---------- compartment in WDG3A loco

30. WDG3A लोको मे F-1 सिलेक्टर वाल्व--------- मे लगा है. (नोज रूम)
F1 Selector valve is located in ---------- compartment in WDG3A loco

31. WDG3A लोको मे C3W वाल्व----------मे लगा है. (नोज रूम)
C3W valve is located in ---------- compartment in WDG3A loco

32. P&G हैण्डल की ----------पोजीशन होती है. (दो)
P&G handle have ----------position.

33. हैण्ड ब्रेक----------में लगा है. (लोको पायलट कैब)
Hand brake is fitted in----------

34. इमरजेंसी फ्लेप वाल्व की संख्या-------होती है. (दो)
---------- Emergency flap valves are provided.

35. GFOLR का रिसेट बटन ------पर लगा है. (फ्रंट पैनल)
GFOLR reset button is provided on ----------.

36. सेंडर पुश बटन---------- पर लगा है. (दोनों कंट्रोल स्टैण्ड)
Sander push button provided on----------

37. MCO की ----------पोजीशन होती है. (सात)
MCO have ----------position.

38. ट्रैक्शन मोटर आइसोलेट करने के लिये ------का उपयोग करते हैं. (MCO)
For TM isolation ----------switch is provided

39. MCO---------पर लगा है. (फ्रंट पैनल)
MCO is provided on----------

40. सीरिज पावर कांटैक्टर की संख्या-----होती है. (तीन)
--------- Nos. of Series power contactors are provided.

41. WDG3A लोको में कुल ------ पावर कांटैक्टर लगे हैं. (नॉ)
Total ---------- power contactor are provided in WDG3A loco

42. FTTM ----------से चलता है. (गियर)
FTTM is driven by----------

43. डीजल इंजन को सुपर चार्ज करने के लिये-----लगा है. (TSC)
----------is provided for supper charging of diesel engine.

44. क्रेंक केस मोटर ------पर लगी है. (इंजन लैफ्ट पावर टेक आँफ एण्ड)
Crank case motor is located at ----------

45. टेको जनरेटर --------पर लगा है. (इंजन राइट पावर टेक आँफ एण्ड)
Techo generator is located at ----------

46. WDG3A लोको में एक बोगी में कुल---------साइड बेयरर लगे हैं. (चार)
Total---------- nos of side bearer are fitted in one bogie of WDG3A loco.

47. RTTM ----------से चलता है. (बेल्ट)
RTTM is driven by ----------

48. ल्यूब आयल फिलटर ड्रम का बायपास वाल्व------मे लगा है. (रेडियेटर रूम)
Lube oil filter drum by pass valve is fitted in ----------
TM no----------and----------get supply through S-31 power contactor.

49. एक्साइटेशन पैनल मे कुल -------कार्ड लगे है. (सात)
Total ---------nos. of cards are fitted in excitation panel

50. GR2 ----------ग्राउंड के लिये लगी है. (स्टार्टिंग)
GR2 is provide for ----------ground.

51. पावर सर्किट ग्राउंड होने पर--------रिले पिकअप होती है. (GR1)
----------Relay picks up after grounding in power circuit.
----------BKR relays are provided in WDG3A loco.

52. चिमनी से नीला धुँआ फ्यूल आयल मे -----मिलने पर आता है. (ल्यूब आयल)
Blue smoke comes out from chimney after mixing ----------with fuel oil.

53. चिमनी से सफेद धुँआ फ्यूल आयल मे -----मिलने पर आता है. (पानी)
White smoke comes out from chimney after mixing----------with fuel oil.

54. ल्यूब आयल रिलीफ वाल्व की सेटिंग-----$kg/cm^2$ होती है. (9.5)
The setting of lube oil relief valve is ---------- $kg/cm^2$.

55. वाटर ड्रेन काक ---------मे लगा है. (कम्प्रेशर रूम लैफ्ट साइड)
Water drain Cock is located in ----------compartment.

56. ETS1----------$^0C$ पर पिक अप होता है. (68)
ETS1 is picking up at ----------$^0C$.

57. ETS2----------$^0C$ पर पिकअप होती है. (74)
ETS2 is picking up at ----------$^0C$.

69. ETS3----------$^0C$ पर पिकअप होती है. (94)
ETS3 is picking up at ----------$^0C$.

70 ETS1 पिकअप होने पर रेडियेटर फैन ------पर चलता है. (धीमी गति)
After picking up ETS1 the radiator fan moves with ----------

58. WDG3A लोको मे रेडियेटर फैन कार्य न करने पर----------सर्किट ब्रेकर आन करना चाहिये. (RFCB)
If radiator fan is not working in WDG3A loco then put "ON"----------circuit breaker .

59. WW गवर्नर वाले लोको मे LWS आपरेट होने पर----रिले ड्राप होती है. (ERR)
As LWS operates in WW governor fitted loco----------relay will drop.

60. DMR डिइनरजाइज होने के कारण इंजिन RPM--------पर आ जाते हैं. (आयडल)
Engine RPM comes to----------as DMR de-energize
Service indicator colour becomes ----------when air drier becomes defective.

61. (EPG)

For maintaining MR pressure between 8 to 10 kg/cm2 --------is provided in WDG3A loco.

62. OSTA ट्रिप होने पर इंजिन ----संकेत के साथ बंद हो जाता है. (बिना)

Engine will shutdown ----------indication after tripping OSTA.

63. डीजल लोको मे सभी सर्किट ब्रेकर -------की तरफ आन होते हैं. (ऊपर)

The position of all circuit breakers are in ----------direction at "ON" position.

64. WDG3A लोको मे ल्यूब आयल डिपस्टिक पर –से---तक निशान लगे हैं. (0-600)

The marking on lube oil dipstick gauge is from---------to--------in WDG3A loco.

65. कम्प्रेशर ल्यूब आयल पम्प को ---द्वारा गति मिलती है. (चेन तथा स्प्रोकेट)

Compressor lube oil pump is driven by----------

Cyclonic motor works after----------notch.

66. LWS का टेस्ट काक हमेशा--------होना चाहिये. (खुला)

LWS test cock always should be----------position

67. IRAB1 ब्रेक सिस्टम वाले लोको से केवल---गाडी ही कार्य कर सकते हैं (एयर ब्रेक)

Only ----------train will work by IRAB1 brake system fitted loco.

68. अधिकतम ब्रेक सिलिंडर प्रेशर --------होता है. (3kg/cm2)

Max brake cylinder pressure is----------

69. कंजक्शन वर्किंग में अधिकतम ब्रेक सिलिंडर प्रेशर --------होताहै (1.8kg/cm2)

Max brake cylinder pressure is----------in conjuction working.

70. J फिल्टर कट आउट काक की स्थिति----------होनी चाहिये. (खुला)

J- Filters coc. Should always be in---------- Position.

71. कंजक्शन वर्किंग मे --------द्वारा लोको ब्रेक रिलीज होते हैं. (फुट पैडल स्विच)

Loco brake relies by----------in conjuction braking.

72. IRAB1 ब्रेक सिस्टम वाले लोको SA9 वाल्व की ------पोजीशन होती है. (दो)

SA9 valve have----------Position in IRAB1 brake system loco.

73. ब्रेक सिलिंडर प्रेशर सेट करने के लिये SA9 वाल्व को ------पोजीशन पर रखना चाहिये. (एप्लीकेशन)

To set brake cylinder pressure keep SA9 valve on ----------position.

74. A9 की एमरजेंसी पोजीशन मे ब्रेक पाइप प्रेशर ----हो जाता है. (जीरो)

Brake pipe pressure will be ----------on emergency position of A9.

75. फीड पाइप के पाम का रंग --------- होता है. (सफेद)

Feed pipe palm is painted by ----------colour.

76. N1 लिमिट वाल्व की सेटिंग --------- kg/cm2होती है. (1.8kg/cm2)

Setting of N1 limit valve is ----------

77. MR इक्वलाइजिंग पाइप मे---------- kg/cm2प्रेशर होता है. (8से10)

----------kg/cm2 pressure is in MR equalizing pipe.

78. एक बोगी मे ------ब्रेक सिलिन्डर लगे हैं. (चार)

----------Brake cylinders are provided in one bogie.

79. वैक्यूम ब्रेक गाडी मे लोड पार्ट होने पर-----वाल्व द्वारा इंजिन आयडल पर आ जाता है. (HB5)

Engine comes to idle by----------valve after load parting in vacuum train.

80. DMR डी-एनरजाइज होने पर --------बत्ती जलती है. (इलैक्ट्रिक ब्रेक वार्निंग)

----------LED glows when DMR de-energizes.

81. ट्रेलिंग लोको में A1 डिफरेंशियल पायलट वाल्व का COC ---- होना चाहिये. (खुला)
A-1diferential pilot valve coc should be in ----------position in trailing loco.

82. -------mm टेस्ट प्लेट के द्वारा लोको का वैक्यूम टेस्ट लिया जाता है. (आठ)
Vacuum test is performed on locomotive by ----------mm test plate.

83. टेस्ट प्लेट पर----------सेमी वैक्यूम------सैकिंड मे बनना चाहिये. (53,45)
Vacuum should be developed ----------cm in---------second on test plate.

84. लोकोमोटिव मे फ्लैट टायर की अनुमत सीमा -----मिमी है. (50)
----------mm flat tyre is permitted in locomotive.

85. ब्रेक सिस्टम के लीक ऑफ टेस्ट मे -----मिनट मे 0.7 kg/cm2 प्रेशर ड्राप अनुमत है. (पाँच)
In leak of test dropping of 0.7kg/cm2 pressure is permitted in---------minute.

86. हैण्ड ब्रेक लगाने पर -----ब्रेक ब्लाँक आपरेट होते हैं. (तीन)
----------Brake block operate after appalling hand brake.
Electro pneumatic contactor are operated by----------kg/cm2 air pressure.

----------lamp glows when VRR fuse melts.

87. ट्रेलिंग लोको मे बैंकिंग कट आऊट काक की पोजीशन----होना चाहिये.(खुला)
In trailing loco banking cut out cock should be in ----------position.
For charging feed pipe ----------coc should remain in open position.

88. WDG3A लोको मे 'W' का मतलब----------है. (ब्रोड गेज)
In WDG3A loco 'W' stands for ----------

89. WDG3A लोको मे फ्यूल आयल की क्षमता------लीटर है. (6000)
Fuel tank capacity of WDG3A loco is ----------litre.

90. WDG3A लोको मे कम से कम ------ लीटर फ्यूल आयल होना चाहिये. (1000)
Minimum level of fuel oil in WDG3A is----------litre.

91. WDG3A लोको मे------प्रकार का फ्यूल आयल सिस्टम है. (इनडायरेक्ट)
----------type fuel oil system is provided in WDG3A loco.

92. फ्यूल आयल की मात्रा देखने के लिये------लगा है.
----------is provided to check fuel oil level. (Glow rod)

93. फ्यूल पम्प मोटर --------रूम मे लगा है. (कम्प्रेशर)
Fuel pump motor is located in ----------room.

94. प्राइमरी एवं सेकण्डरी फिल्टर -------टाइप फिल्टर हैं. (पेपर)
Primary and secondary filters are of ----------type filter.

95. फ्यूल आयल रिलीफ वाल्व की सेटिंग---------- $kg/cm^2$ है. (5.2)
Setting of fuel oil relief valve is ---------- $kg/cm^2$

96. फ्यूल आयल रेगुलेटिंग वाल्व की सेटिंग---------- $kg/cm^2$ है. (4.2)
Setting of fuel oil regulating valve is ---------- $kg/cm^2$

97. फ्यूल आयल प्रेशर गेज मे------से------- $kg/cm^2$ के निशान बने है. (0 से 7)
Marking in fuel oil pressure gauge is from ----------to ---------- $kg/cm^2$

98. फ्यूल आयल रिलीफ वाल्व की लोकेशन-------है. (इंजन राइट साइड फ्री एण्ड)
Fuel oil relief valve is located at ----------.

99. हाई प्रेशर लाईन फटने पर ----द्वारा FIP आइसोलेट करना चाहिये. (फ्यूल रेक)
FIP is isolated by ----------after bursting high pressure pipe line.

100. WDG3A लोको मे अधिकतम फ्यूल रेक ---------मि. मी.खुलते हैं. (27)
Maximum fuel rack opening in WDG3A loco is ----------mm.

101. ------एवं------से बचा हुआ तेल लीक आफ गैलरी मे जमा होता है.
(FIP एवं इंजेक्टर)
In leak of gallery remaining oil of ----------and----------comes.

102. फ्यूल टैंक पर-------कैप लगी हैं. (दो)
----------filling caps are provided on fuel tank.

103. फ्यूल टैंक पर-------वेंट पाइप लगे हैं. (दो)
----------vent pipes are provided on fuel tank.

104. फ्यूल आयल सिस्टम मे तेल सर्व प्रथम---में छनता है. (केज स्ट्रेनर)
Fuel oil first filters from----------in fuel oil system.

105. WDG3A लोको मे अधिकतम -----FIP आइसोलेट कर सकते हैं. (दो)
Max---------- FIP can be isolated in WDG3A loco.

106. WDG3A लोको मे FPC---------लगा है. (फ्रंट पैनल)
FPC is fitted on ----------in WDG3A loco

107. FPC पिक अप न होने पर-------सर्किट ब्रेकर आन करें. (FPB-3)
If FPC is not closing then ----------circuit breaker should be kept on.

108. यदि ट्रेलिंग लोको के ट्रेक्शन की आवश्यकता न हो तो ट्रेलिंग लोको में----------
--को----------पोजीशन पर रखें. ( ECS, †ûµ›»)
If trailing loco traction is not required then keep ----------on --------position in trailing loco.

109.
Max----------is required for fuel efficiency

110. एअर लाक निकालने के लिये फ़्यूल पम्प के---------पाइप का नट लूज करें.
(डिलीवरी)
To release air lock loose nut of ----------pipe of fuel pump.
Unit of MCBG governor fitted in engine room is called ----------

111. WDG3A लोको मे डायनामिक ब्रेक के समय-------पावर कान्टेक्टर पिकअप होते हैं. (पाँच)
During DBR ----------power contactors pick up in WDG3A loco.

112. WDG3A लोको मे स्टार्ट बटन दबाने पर----एवं---रिले पिकअप होती है.
CKR1,2)
After pressing start push button ---------and --------relay pick up in WDG3A loco.
Before starting engine fuel pump motor works from ----------supply.
----------Motor is provided to cool dynamic braking grids.

113. DMR पिकअप न होने पर ----सर्किट ब्रेकर की जाँच करें. (MCB1&2)
If DMR is not picking up then check ----------circuit breakers.

114. ड्यूअल ब्रेक लोको में A9 इमरजेंसी में रखने पर ------आपरेट होकर इंजिन आयडल पर आ जाता है. (PCS2)
On keeping A9 in emergency in dual brake loco engine comes to idle through ---.

115. --------नं. ट्रैक्शन मोटर आइसोलेट रहने पर लोडमीटर करंट नहीं बताता है
(एक)
Load meter will not show current if TM ---------- is isolated.

116. GFOLR आपरेट होने पर------की बत्ती जलती है. (ओवर लोड)

----------lamp will glow after operating GFOLR.

If auxiliary generator is not working then ensure that ----------cards are fitted properly

117. ट्रेलिंग लोको में MFPB1&2-----होना चाहिये. (आँफ)

In trailing loco MFPB1&2 should be kept in----------position.

118. ट्रेलिंग लोको में AGFB -----होना चाहिये. (आँन)

In trailing loco AGFB should be kept in----------position.

119. ट्रेलिंग लोको में MCB1&2-----होना चाहिये. (आँफ)

In trailing loco MCB1&2 should be kept in----------position.

120. लीडिंग लोको में ¾" COC-----होना चाहिये. (खुला)

In leading loco ¾" COC should be in----------position.

121. ट्रेलिंग लोको में ¾" COC-----होना चाहिये. (बंद)

In trailing loco ¾" COC should be in----------position

122. ट्रेलिंग लोको में FPB--------होना चाहिये. (आन)

In trailing loco FPB should be kept in----------position.

123. ट्रेलिंग लोको में GFCO1&2-----होना चाहिये. (आँफ)

In trailing loco GFCO1&2 should be kept in----------position.

In trailing loco EPG toggle switch should be kept in----------position.

124. ट्रेलिंग लोको में GR1 आपरेट होने पर लीडिंग लोको का लोड मीटर ----- बताता है. (अधिक करंट)

If GR1 operates in trailing loco then load meter of leading loco shows -------.

125. OSTA ट्रिप होने पर डीजल इंजिन----------हो जाता है. (बंद)

Diesel engine will ----------after tripping OSTA.

126. OSTA ट्रिप होने पर डीजल इंजिन ------- संकेत के साथ बंद हो जाता है.(बिना)

Diesel engine will shut down----------indication after tripping OSTA.

127. ट्रेलिंग लोको में SA9 हैण्डल को ------पोजीशन पर निकाल लेना चाहिये. (रिलीज)

In trailing loco SA9 handle should be removed after keeping it on ------ position.

128. रेल गार्ड एक ----------है. (सेफ्टी फिटिंग)

Rail guard is a----------

129. मल्टीपल यूनिट में सभी लोको के इंजिन -----द्वारा बंद कर सकते हैं. (MUSD)

In multiple unit all engine can be shut down by ----------

In WW governor fitted loco when lube pressure drops engine will shut down by ----------

130. C3W डिस्ट्रीब्यूटर वाल्व -----प्रेशर में कमी होने से आपरेट होती है. (बी.पी)

C3W distributor valve operates on dropping ----------pressure.

131. WDG3A लोको में क्रैंक शाफ्ट में-------में बियरिंग होते हैं (9)

----------bearings are provided on crank shaft of WDG3A loco.

In digital water level indicator fitted loco LWS operates when water level in expansion tank remains ----------inches.

132. (एक्सप्रेशर/कम्प्रेशर रूम)

ETS3 is located in ----------room.
----------lamp will glow after closing battery knife switch.

133. गाडी स्टार्ट करते समय कपलर पर -------फोर्स उत्पन्न होता है. (ड्राफ्ट)
While starting the train ----------force will develop on coupler.

134. गाडी मे ब्रेक लगाते समय कपलर पर ------ फोर्स उत्पन्न होता है. (बफ)
While braking the train ----------force will develop on coupler.

135. अधिक्तम फ्री स्लैक -------इंच होता है. (एक)
Max free slag is ----------inch.

136. अधिकतम स्प्रिंग स्लैक ------इंच होता है. (5)
Max spring slag is ----------inches.

137. 40 वैगन की मालगाडी में अधिकतम ------इंच स्लैक सम्भावित है. (240)
Maximum probable slag in 40 wagon goods train is----------inch.

138. गाडी के अगले हिस्से की गति पिछले हिस्से की गति से अधिक होने पर ----
उतपन्न होता है. (रन आऊट)
If speed of fore most part of the train is more than rear most part then----------
experience

139. गाडी के अगले हिस्से की गति पिछले हिस्से की गति से कम होने पर -----
उतपन्न होता है. (रन इन)
If speed of fore most part of the train is less than rear most part then----------
Experience.

140. तेजी से नाच लेने पर ----------आता है. (जर्क)
On quick notching up----------will experience.

141. जर्क के कारण ---हो सकता है. (लोड पार्ट)
Jerk can cause ----------

142. डायनिक ब्रेक के समय इंजिन RPM---------नाच के बराबर हो जाते हैं. (4)
While dynamic braking engine RPM become ----------notch RPM.

143. डायनिक ब्रेक -----प्रकार का ब्रेक है. (इलैक्ट्रिकल)
Dynamic brake is ----------type of brake.

144. ट्रैक्शन अलटरनेटर का नो लोड वोल्टेज------वोल्ट होता है. (1130)
No load voltage of traction alternator is ----------volt.

145. GFC पिकअप न होने पर -----एवं------स्विच का आन होना सुनिश्चित करें.
(GFCO1&2)
If GFC is not picking up then ensure ---------&---------switch are in close position.

146. ओरीफिश उपकरण में -------mm का छेद होता है. (7.5)
In orifice instrument leak hole is of ----------mm.

147. ------रिले के पिकअप होने से बजर बजता है. (WSR1,2,3)
Buzzer sounds when ----------relay picks up.

148. लोको में घंटी ---रिले के पिकअप होने से बजती है (SR)
In loco bell rings when ---------relay picks up.

149. वुडवर्ड गवर्नर में तेल देखने के लिये-----लगाया गया है. (ग्लास ट्यूब)
----------Is provided in WW Governor to check oil level.

150. ई.एच. गवर्नर में तेल ---के द्वारा देखते है. (स्पाइ ग्लास)
----------Is provided in EH Governor to check oil level.

151. स्टार्टिंग ग्राउण्ड के समय ---------रिले पिक अप होती है. (GR2)
At the time of starting ground ----------relay picks up.

152. पावर ग्राउण्ड के समय ------- रिले पिक अप होती है. (GR1)
At the time of power ground ---------- relay picks up.

153. WDG3A लोको में ट्रांजीशन -------- kmph पर आता है. (41.5)
In WDG3A loco transition come at the speed of ----------KMPH.

154. WDG3A लोको में---------ट्रांजीशन आते हैं. (एक)
In WDG3A loco there is ---------- transition.

155. फ्यूल पम्प मोटर कार्य न करने पर ------कांटैक्टर का पिकअप होना सुनिश्चित करें. (एफ.पी.सी)
If fuel pump motor is not working then ensure that ----------is picking up.

156. फ्यूल पम्प मोटर कार्य न करने पर ---सर्किट ब्रेकर का रिसेट होना सुनिश्चित करें. (एफ.पी.बी)
If fuel pump motor is not working then ensure that ----------circuit breaker is in close condition.

157. फ्यूल आयल प्रेशर गेज ------kg/cm2 फ्यूल आयल प्रेशर दर्शाता है. (4.2)
Fuel pressure gauge shows ----------kg/cm2 pressure in WDG3A loco.

158. लोको में एक्सप्लोजन डोर की संख्या-----होती है. (2)
There are ----------explosion doors in WDG3A loco.
While LWS operate diesel engine will shut down with ----------indication.

159. ल्यूब आयल रेगुलेटिंग वाल्व की सेटिंग ----- kg/cm2 होती है. (5.2)
Setting of lube oil regulating valve is ----------kg/cm2.

160. ल्यूब आयल डिपिस्टिक गेज पर ----से ----तक के निशान लगे हैं. (0-600)
Marking on lube oil dipstick gauge is from ---------to----------

161. ल्यूब आयल लेवल इंजिन की ---स्थिति में देखना चाहिये. (आयडल)
Lube level should be check in engine----------position.

162. ओ.पी.एस. ----- kg/cm2 पर पिकअप होता है. (1.6)
OPS picks up at ----------kg/cm2.

163. ओ.पी.एस. ----- kg/cm2 पर ड्राप होता है. (1.3)
OPS drops at ----------kg/cm2.

164. बी.पी एडजस्ट करने के लिये ए-9 हैण्डल ---पोजीशन पर रखना चाहिये. (रिलीज)
At the time of BP pressure adjusting A9 handle should be at---------- position.

165. ट्विन बीम हैड लाईट की फोकस दूरी ---मीटर है. (305)
Focus distance of twin beam head light is----------meter.
condition.

1. WDG4/ WDP4 लोको का शड्यूल ----------दिनों के बाद होता है. (90)
   Maintenance schedule of WDG4/P4 loco takes place after ----------days.
2. WDG4 लोको का एक्सल लोड ----------टन होता है. (21)
   Axel load of WDG4 loco is----------tons.
3. WDG4 लोको का हार्स पावर ----------होता है. (3939)
   HP of WDG4 loco is----------hp.
4. WDG4/ WDP4 लोको में आटोमैटिक ब्रेक हैण्डल की -----पोजीशन होती हैं. (5)
   Automatic brake handle have ----------position in WDG4/P4 loco.
5. WDG4/ WDP4 लोको में टी.एम. ब्लोअर---------टी.एम को ठंडा करता है.(सभी)
   TM blower cools ----------TM in WDG4/P4 loco.
6. WDG4/ WDP4 लोको में वाटर लेवल गेज --------रूम में लगा है. (एसेसरी)
   Water level gauge is provided in ----------room inWDG4/P4 loco.
7. WDG4/ WDP4 लोको में OSTA इंजिन रूम के ------एण्ड पर लगी है.
   (फ्री एण्ड)
   OSTA is provided at ----------in engine room inWDG4/P4 loco.
8. WDG4/ WDP4 लोको में टी.एस.सी -----पर लगी है. (पावर टेक आफ़)
   TSC is located at ----------end in WDG4/P4 loco.
9. WDG4/ WDP4 लोको में CCM के स्थान पर -----लगी है. (इंडक्टर ट्यूब)
   ----------is provided in place of CCM in WDG4/P4 loco.
10. WDG4/ WDP4 लोको में एम.आर का कट इन----------तथा कट आऊट-----पर होता है. (8.2 kg/cm2, 9.6 kg/cm2)
    In WDG4/P4 loco MR cut in at ----------and cut out at----------
11. TCC का पूरा नाम-------- है. (ट्रेक्शन कंट्रोल कैब

नेट
)

Full name of TCC is----------

12.

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Full name of ECC is----------

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TM no---------- are controlled by TCC1.

14. WDG4 लोको मे TCC2 TM नं. ------ को क्न्ट्रोल कर ती है. (4, 5,6 )

TM no----------are controlled by TCC2 in WDG4 loco.

15. WDP4 लोको में TCC1 TM नं. ------ को क्न्ट्रोल कर

ती है. (1, 2)

TM no----------are controlled by TCC1 in WDP4 loco.

16. WDP4 लोको में TCC2 TM नं. ---------- को क्न्ट्रोल कर ती है. (3, 4)

TM no----------are controlled by TCC2 in WDP4 loco

17. WDG4 लोको में एक ट्रक आयसोलेट करने के बाद---%लोड खींचने में सक्षम होता है (60)

After isolating one truck ---------% of load can be haul by WDG4 loco.

18. WDG4/WDP4 लोको में ----------

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----------And ----------crowbar fires inWDG4/P4 loco

19. W
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|---|---|---|
| 20. | Isolation switch is provided on ----------inWDG-4/P-4 | WDG4/WDP4 लोको में ई.एम.2000 ---- स्थान पर लगा है. (ECC1) |
| 21. | EM2000 is provided in ----------inWDG4/P4 loco. | TLPR का पूरा नाम ---------- है. |

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Full name of TLPR is----------

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Direct brake handle have ----------position.

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----------Label colour circuit breaker is provided in WDG4/P4 loco.

25. W
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फीचर लगा है. (फेल सेफ)

----------Feature is provided in WDG4/P4 loco.

26. WDG4 लोको में एम.आर. टैंक ---स्थान पर लगे हैं. (लोको राईट साइड अंडर ट्रक)

MR tanks are provided at----------in WDG4 loco.

27. W DP 4 लो को में एम . आर . टैंक --- स्था न पर लगे हैं. (लो को लै फ्ट साइ ड अंड र ट्रक )

MR tanks are provided at----------in WDP4 loco.

28. W DP 4 लो को में रडा र - --- - में

ल
गा
है.

(लोको लैफ्ट रियर बोगी तथा फ्यूल टैंक के बीच)

Radar is provided at----------in WDP4 loco.

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Radar is provided at----------in WDG4 loco.

30. W
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Hand brake is provided on----------in WDG4 loco.

31. W
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----------brake cylinders are fitted in WDP4 loco.

32. W
DG
4 /
W
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4 लोको में बी. सी. प्रेशर ------ kg/cm2 होता है. (5.2)

BC pressure is ----------kg/cm2 in WDG4/P4 loco.

33. WDG4/ WDP4 लोको स्टार्ट करते समय प्राइम/स्टार्ट स्विच को-------सेकिण्ड से अधिक समय तक स्टार्ट पोजीशन मे नहीं रखना चाहिये. (20)

While starting engine of WDG4/P4 loco prime start switch should not hold more than ----------seconds in start position.

34. WDG4/ WDP4 लोको में डैड लोको पर कंजक्शन के दौरान बी.सी. प्रेशर ------ किग्रा/सेमी2 होता है. (1.8)

During conjuction braking in dead loco of WDG4/P4 BC pressure will be------ kg/cm2

35. GTO का पूरा नाम ---------है. (गेट टर्न आफ थायरिस्टर)

Full name of GTO is----------

36. WDG4 लोको का माडल नं. ---------है. (GT46MAC)

Model no of WDG4 loco is----------

37. WDP4 लोको का माडल नं. ---------है. (GT46PAC)

Model no of WDP4 loco is----------

38. हाट आयल डिटैक्टर------सैंटीग्रेट टैम्प्रेचर आपरेट होता है. ($124^0$C)

Hot oil detector operates at ----------0C temperature.

39. WDG4 लोको का भार------टन है. (126)

Weight of WDG4 loco is ----------tons.

40. WDG4 लोको का गियर रेशो -------अनुपात है. (90:17)

Gear ratio of WDG4 loco is----------

41. WDG4 लोको की अधिकतम स्पीड-----होती है. (120 किमी/घन्टा)

Maximum speed of WDG4 loco is----------

42. WDP4 लोको की अधिकतम स्पीड-----होती है. (160 किमी/घन्टा)

Maximum speed of WDP4 loco is----------

43. WDG4 का इंजिन हार्स पावर--------है. (4000)
Engine HP of WDG4 loco is----------

44. WDG4 लोको का ट्रैक्टिव एफर्ट -----टन होता है. (55.2)
Tractive effort of WDG4 loco is----------ton

45. WDG4 लोको का अधिकतम एडैशन-----%होता है. (43)
Maximum adhesion of WDG4 loco is----------%

46. WDG4/ WDP4 लोको में इंजिन सिलिंडरों की संख्या-----है. (16)
No of engine cylinder provided in WDG4/P4 loco are ----------

47. WDG4/ WDP4 लोको का कम्प्रेशन रेशो-----है. (16:1)
Compression ratio of WDG4/P4 loco is ----------

48. WDG4/ WDP4 डीजल इंजिन का 8 नाच पर rpm ---है. (904)
8th notch engine RPM of WDG4/P4 loco is ----------

49. WDG4/ WDP4 इंजिन का आयडल rpm ----है. (269)
Idle engine RPM of WDG4/P4 loco is ----------

50. WDG4/ WDP4 इंजिन का लो आयडल rpm ----है. (200)
Low idle engine RPM of WDG4/P4 loco is ----------

51. WDG4/ WDP4 लोको में -----प्रकार की TM लगी है. (3 फेज ए.सी. इंडक्शन)
In WDG4/P4 loco ----------type of TM are provided.

52. WDG4/ WDP4 लोको में -----रेडियेटर फैन होते हैं. (दो)
In WDG4/P4 loco ----------radiator fan are provided.

53. कम्पेनियन अल्टरनेटर का आऊट पुट-------- होता है. (230 वोल्ट ए.सी.)
Out put voltage of companion Alternator is ----------

54. WDG4/ WDP4 लोको में OSTA की सेटिंग ----है. (960-1045rpm)
The setting of OSTA is----------in WDG4/P4 loco.

55. WDG4/ WDP4 लोको में फ्यूल आयल की क्षमता------लीटर होती है. (6000)
Fuel tank capacity of WDG4/P4 loco is ----------liters.

56. WDG4 लोको में ल्यूब आयल की कैपेसिटी---------लीटर होती है. (1457)
Lube oil sump capacity of WDG4 loco is ----------liters.

57. WDP4 लोको में ल्यूब आयल की कैपेसिटी---------लीटर होती है. (1457)
Lube oil sump capacity of WDP4 loco is ----------liters

58. WDP4 लोको का कुल वजन--------टन है. (119.5)
Total weight of WDP4 loco is ----------tons.

59. WDP4 लोको का गियर रेशो--------है. (17:77)
Gear ratio of WDP4 loco is ----------

60. WDG4/ WDP4 लोको में TSC -----नाच तक क्लच-गियर से चलता है. (6)
In WDG4/P4 loco up to ----------notch TSC is driven by clutch and gear.

61. WDG4 लोको का बैट्री वोल्टेज------वोल्ट है. (64)
Battery voltage of WDG4 loco is ----------volts.

62. WDG4 लोको की बोगी------प्रकार की है. (CO-CO HTSC)
In WDG4 loco ----------type of bogie is provided.

63. WDP4 लोको में----------प्रकार की बोगी लगी है. (BO1-1BO, HTSC)
In WDP4 loco ----------type of bogie is provided.

64. WDG4/ WDP4 लोको का फाय्रिंग आर्डर-----है.

(1,8,9,16,3,6,11,14,4,5,12,13,2,7,10,15)

Firing order of WDG4/P4 loco is----------

65. WDG4 लोको में कुल --- टी,एम. लगी हैं. (6)

Total ----------no of TM are provided in WDG4 loco.

66. WDP4 लोको में कुल ------टी.एम लगी हैं. (4)

Total ----------no of TM are provided in WDP4 loco

67. WDP4 लोको में --,---,--, ओर---एक्सल पर टी.एम लगी हैं (1,2,5,6)

In WDP4 loco TM are provided on -----,------,------,and--------axel.

68. WDG4 लोको में कम्प्रेशर में ल्यूब आयल की क्षमता-----लीटर है. (9.8)

Lube oil capacity of compressor is ----------litre in WDG4 loco.

69. WDG4 लोको में एक्सपेंशन टैंक की क्षमता ---लीटर है. (375)

Expansion tank capacity is ----------litre in WDG4 loco.

70. WDG4/ WDP4 लोको में ------प्रकार का ब्रेक सिस्टम है. (CCB/KNORR)

In WDG4/ WDP4 ----------type of brake system is provided.

71. WDG4/ WDP4 लोको के लयूब आयल सिस्टम में ----पम्प लगे हैं (4)

In lube system of WDG4/ WDP4 loco ----------No of pump are provided.

72. WDG4 लोको की सीरिज-------है. (12)

Series of WDG4 loco is----------

73. WDP4 लोको की सीरिज-------है. (20)

Series of WDP4 loco is----------

74. WDG4/ WDP4 लोको में लगे कन्ट्रोल स्टैण्ड को ----नाम से जानते हैं.

(कंट्रोल कंसोल)

In WDG4/P4 loco control stand are called as ----------

75. WDG4 लोको में ल्यूब आयल डिपिस्टिक गेज पर-------से-----निशान होते हैं.

(0-625)

The marking on lube oil dipstick gauge is from ---------to----------in WDG4 loco.

76. WDP4 लोको में ल्यूब आयल डिपिस्टिक गेज पर-------से-----निशान होते हैं.

(0-625)

The marking on lube oil dipstick gauge is from ---------to----------in WDP4 loco.

77. WDG4 लोको में स्टार्ट स्विच ---कम्पार्टमेंट में लगा है. (एसेसरी रूम)

In WDG4 loco start switch is provided in ---------room.

78. WDP4 लोको में स्टार्ट स्विच ---कम्पार्टमेंट में लगा है.

(लोको पायलट कैब में इंजिन कंट्रोल पैनल पर)

In WDG4 loco start switch is provided in ----------

79. WDG4/ WDP4 लोको में ------नं. स्टार्टिंग मोटर लगी हैं. (2)

In WDG4/P4 loco ----------No of starting motor are provided.

80. WDG4/ WDP4 लोको में लगी स्टार्टिंग मोटर ----प्रकार की है. (डी,सी. मोटर)

In WDG4/P4 loco starting motor are of ----------type of motor.

81. WDG4/ WDP4 लोको में बैट्री नाईफ स्विच----पर लगा है. (इंजिन राइट साइड)

Battery knife switch is provided at ---------- in WDG4/P4 loco.

82. WDG4/ WDP4 लोको में कुल वाटर पम्प की संख्या ---होती है. (2)

Total ---------No of water pump are provided in WDG4/P4 loco.

83. WDG4/ WDP4 लोको में डैड इंजिन कट आऊट काक ------में लगा है (नोज कम्पार्टमेंट)
Dead engine COC is provided in ---------- compartment in WDG4/P4 loco.

84. WDG4/ WDP4 लोको में P&G स्विच ---में लगा है. (नोज कम्पार्टमेंट)
P&G switch is provided in ---------- compartment in WDG4/P4 loco.

85. WDG4/ WDP4 लोको में L&T स्विच-------पर लगा है. (दोनों कंट्रोल कंसोल पर)
L&T switch is provided on---------- ----- in WDG4/P4 loco.

86. WDG4/ WDP4 लोको में L&T स्विच की कुल ----पोजीशन होती हैं. (4)
L&T switch have ---------- position in WDG4/P4 loco.

87. बलैण्डेड ब्रेक ----प्रकार के लोको में लगा है. (WDP4)
Blended brake is provided in ----------loco.

88. इंजिन रन स्विच ----कंट्रोल कंसोल पर लगा है. (2 नं.)
Engine run switch is provided on control consol no--------

89. फ्यूल पम्प एण्ड कंट्रोल स्विच -------- कंट्रोल कंसोल पर लगा है (2 नं.)
Fuel and control switch is provided on control consol no--------

90. MUSD स्विच ------पर लगा है. (कंट्रोल कंसोल नं. 2)
MUSD switch is provided on----------

91. WDG4/ WDP4 लोको में --------BKBL मोटर लगी हैं. (2)
In WDG4/P4 loco ----------Nos of BKBL motors are provided.

## WDM3D LOCO

1 जिस लोको मे MEP 660 कम्प्यूटर लग़ा है उसे _____लोको कहते हैं | (मायक्रोप्रोसेसर)
MEP 660 Computer fitted loco is called ----------loco.

2 WDM3D लोको मे इंजिन का हॉर्स पावर _____HP है (3300)
Engine HP of WDM3D loco is----------

3 WDM3D लोको का हॉर्स पावर_____ HP है (2950)
Loco HP of WDM3D loco is----------

4 WDM3D लोको का वजन _____ टन है (117 टन)
Weight of WDM3D loco is----------tons.

5 WDM3D लोको का ट्रैक्टिव एफर्ट _____ टन है (38.9)
Tractive effort of WDM3D loco is----------tons.

6 WDM3D लोको मे 2 ट्रांजीशन_____KMPH और _____ KMPH पर आते है (42,52)
Two transitions in WDM3D loco comes on ---------KMPH and--------KMPH.

7 WDM3D लोको मे _____ रिवर्सर कांटैक्टर लगे है (एक)
----------Reverser contactor is provided in WDM3D loco.

8 WDM3D लोकोमोटिव ड्रायविंग _____ हॅण्ड है (लैफ्ट)
WDM3D locomotive is ----------hand drive loco.

9 WDM3D लोकोमोटिव में _____टाइप की बोगी लगी है. (माँडीफाइड हाई एढैशन)
----------Type bogie is fitted in WDM3D loco.

10 WDM3D लोकोमोटिव में _____BKT लगी है. (एक)
----------BKT is provided in WDM3D loco

11 WDM3D लोकोमोटिव में एक से अधिक----------आयसोलेट करने की व्यवस्था है.
(ट्रैक्शन मोटर)

The provision of more than one ---------- isolation is in WDM3D loco.

12 मायक्रोप्रोसेसर लोको में TM आयसोलेट करने के बाद भी लोको -------काम्बीनेशन में कार्य करता है. (सीरिज पैरलल)

Loco will work in ----------combination after TM isolation in microprocessor loco.

13 WDM3D लोकोमोटिव में टी एम आयसोलेट करने के बाद भी--------आते हैं. (ट्रांजीशन)

----------will come after TM isolation in WDM3D locomotive.

14 WDM3D लोकोमोटिव में CKC कांटैक्टर ---------- पर लगा है. (फ्रंट पेनल )

CKC contactor is fitted on----------in WDM3D locomotive.

15 WDM3D लोकोमोटिव में GFC कांटैक्टर ---------- पर लगा है. (फ्रंट पेनल )

GFC contactor is fitted on----------in WDM3D locomotive.

16 WDM3D लोकोमोटिव में VCD डिसेबल स्विच ---------- पर लगा है. (फ्रंट पेनल )

VCD disabled switch is fitted on----------in WDM3D locomotive

17 WDM3D लोकोमोटिव में TE लिमिट स्विच ---------- पर लगा है. (कंट्रोल पेनल )

TE limit switch is fitted on----------in WDM3D locomotive

18 WDM3D लोको में VCD ऑपरेट होने पर --------- कांटैक्टर ड्रॉप हो जाता है (GFC)

----------Contactor drops in WDM3D loco after VCD operate.

19 WDM3D लोकोमोटिव में VCD पेनल्टी ----------सेकंड के बाद लगती है (94)

VCD penalty impose after----------seconds in WDM3D locomotive.

20 मायक्रोप्रोसेसर लोको मे VCD पेनल्टी ब्रेक लगने के बाद VCD लैम्प ------- सेकंड के बाद बुझता है (35)

VCD lamp extinguish after ----------second on application of VCD penalty brake.

21 मायक्रोप्रोसेसर लोको की खडी अवस्था मे VCD रिसेट रखने के लिये ब्रेक सिलिंडर प्रेशर --------KG/ $CM^2$ या इससे अधिक होना चहिये (2.1)

To avoid VCD operation in loco stand still position brake cylinder pressure should be more than ----------kg/cm2

22 मायक्रोप्रोसेसर लोको में ---------- हेड लाईट लगी है. (ट्विन बीम)

----------Head light is provided in microprocessor loco.

23 मायक्रोप्रोसेसर लोको में स्पीड के ----------सेंसर लगे है (7)

Total----------NO sensors are provided in microprocessor loco.

24 MPCB का पुरा नाम ---------- है (मायक्रोप्रोसेसर सर्किट ब्रेकर)

Full name of MPCB is ----------

25 PLPB का पुरा नाम ---------- है (प्री लुब्रीकेशन पम्प सर्किट ब्रेकर)

Full name of PLPB is ----------

26 PLPC का पुरा नाम ----------है (प्री लुब्रीकेशन पम्प कॉन्टॅक्टर)

Full name of PLPC is ----------

27 मायक्रोप्रोसेसर लोको मे हॉट इंन्जिन अलार्म ----------0C पानी के तापमान पर आता है (90 )

Hot engine alarm comes on----------0C temperature of water in microprocessor loco.

28 मायक्रोप्रोसेसर लोको मे इन्जिन स्टार्ट करते समय स्टार्ट पुश बटन को---------सेकंड से अधिक समय समय तक दबाकर रखना चाहिए (60)

While starting the engine, start push button should be press more than ----------seconds in microprocessor loco.

29 ADB का पुरा नाम ---------- है (एनॉलॉग डिस्ट्रिब्युशन बॉक्स)

Full name of ADB is ----------

30 RDB का पुरा नाम ----------है (रिव्होल्युशन डिस्ट्रिब्युशन बॉक्स)

Full name of RDB is ----------

31 मायक्रोप्रोसेसर लोको मे ------- 0C पानी के तापमान पर 100 % पावर कम हो जाता है (95)

100 % power reduced in microprocessor loco when water temperature reaches to----0C.

33 मायक्रोप्रोसेसर लोको मे VCD ऑपरेट होने पर BP प्रेशर ---------KG/CM2 तक ड्रोप हो जायेगा (2.8)

BP pressure will drop up to----------kg/cm2 in microprocessor loco after VCD operate.

34. मायक्रोप्रोसेसर लोको मे हॉट ENGINE अलर्म आने पर ----------अपने आप रेज होता है (ENGINE)

----------is automatically race after coming hot engine alarm in microprocessor loco.

35. मायक्रोप्रोसेसर लोको मे VCD का इलेट्रोन्युमॅटिक वाल्व तथा उसका कट आउट कॉक ---- ---- मे लगा है (नोज कम्पार्टमेंट)

VCD electro pneumatic valve and its COC are located at----------in microprocessor loco.

36. मायक्रोप्रोसेसर लोको मे बोगी कट आउट कॉक --------मे लगा है (UNDER TRUCK)

Bogie COC is located at----------in microprocessor loco.

37. प्रीलुब्रीकेशन पम्प मोटर ---------- रुम मे लगा है (कॉम्प्रेसर रुम)

Pre lubrication pump motor is located in----------room.

38. मायक्रोप्रोसेसर लोको मे कुल ---------- सेन्सर लगे है (36)

Total No. of sensors provided in microprocessor loco are----------

39. मायक्रोप्रोसेसर लोको मे MEP 660 का डिसप्ले युनिट -------पर लगा है (कंट्रोल पॅनल)

Display unit of MEP 660 is provided on ---------- in microprocessor loco.

40. वाटर लेवल इन्डीकेटर मे रेड LED जलने पर पानी का लेवल ----------रहता है (20% या उससे कम)

Water level will be less than ----------when red indication glows on water level indicator.

## WDM2 LOCO

1. WDM2 लोको मे J फिल्टर कट आउट कॉक बंद होने पर ------ गेज मे प्रेशर नही दिखाई देगा (MR प्रेशर)

   If J filter COC is in close condition then ----------gauge will not show pressure in WDM2 loco.

2. WDM2 लोको मे ----वाल्व खराब होने पर MR की नमी ऑटोमेटिक ड्रेन नही होगी (ऑटो ड्रेनवाल्व)

   If ----------valve is defective then MR will not drain automatically in WDM2 loco.

3. WDM2 लोको मे VA1B वाल्व खराब होने पार ----पाइप का वैक्युम ड्रॉप नही होगा (ट्रेन)

If VA1B valve is defective then vacuum will not drop in----------pipe in WDM2 loco.

4. WDM2 लोको मे SA9 की ---------- पोजीशन होती है (3)

In WDM2 loco SA9 have ----------positions.

5. ट्रेलिग लोको का 3/4" कट आउट कॉक --------- होना चहिए (बंद)

In trailing loco 3/4" COC should be in ----------position.

6. ट्रेलिग लोको का MU2B वाल्व --------- पर होना चहिए (ट्रेल)

In trailing loco MU2B valve should be in ----------position.

7. WDM2 लोको मे 28VB वाल्व को आयसोलेट करने के लिए -------- लगाया गया है (COC WITH STRINER)

To isolate 28VB valve ----------is provided in WDM2 loco.

8. वैक्युम टेस्ट लेने के लिए ------- MM टेस्ट प्लेट का उपयोग करते है (8)

To perform vacuum test----------mm test plate is used.

9. ऑरिफिअस टेस्ट लेने के लिए ---------उपकरण का प्रयोग किया जाता है (ऑरिफिअस)

To perform orifice test----------instrument is used.

10. कॉम्प्रेसर की CAPABILITY जाचने के लिए ---------- टेस्ट लिया जाता है (ऑरीफिस)

To check compressor capability ----------test is to be performed.

11. BP पाइप मे लिकेज की जाच करते समय -----मिनट मे------ KG/CM2 प्रेशर से जादा प्रेशर ड्रॉप नही होना चहिए (5, 0.7)

BP pressure should not be drop more than ------kg/cm2 in -------minute while performing BP leak of test.

12. WDM2 लोको मे MUSD ------- एवम-------क्न्ट्रोल स्टैड मे लगा है (LEFT, RIGHT)

In WDM2 loco MUSD is located on ----------and ----------control stand.

## सही या गलत लिखो / True or False

### ( WDG-3A)

1. WDG3A लोको में फ्यूल टैंक डिटैचेबिल लगा है. (सही)
   Detachable type fuel tank is provided in WDG3A loco.
2. WDG3A लोको में इनडायरेक्ट फ्यूल आयल सिस्टम लगा है. (सही)
   Indirect type fuel oil system is provided in WDG3A loco.
3. फ्यूल आयल प्रेशर गेज रिलीफ वाल्व का प्रेशर दर्शाता है. (गलत)
   Fuel oil pressure gauge is showing the pressure of relief valve.
4. फ्यूल आयल रिलीफ वाल्व सैकिण्ड्री फिल्टर के लिये लगा है. (गलत)
   Fuel oil relief valve is provided for secondary filter
5. फ्यूल आयल प्रेशर गेज 5 $kg/cm^2$ प्रेशर दर्शाता है. (गलत)
   Fuel oil pressure gauge is showing 5.0 kg/cm2 pressure.
6. WDG3A लोको में रेसीप्रोकेटिंग प्रकार का फ्यूल पम्प लगा है. (गलत)
   Reciprocating type fuel pump is provided in WDG3A loco.
7. FIP को आयसोलेट करने के लिये फ्यूल रेक को लाक करेंगे. (सही)
   Fuel rack should be locked to isolate the FIP.
8. इंजिन में अधिकतम दो FIP आयसोलेट कर सकते हैं. (सही)
   Maximum two FIP can be isolated.
9. क्रास ओवर पाइप फ्री एण्ड पर लगा है. (गलत)
   Cross over pipe is fitted on Eng. Free end.
10. डायनामिक ब्रेक का उपयोग करने से फ्यूल की बचत होती है. (सही)
    Fuel oil is saving by using dynamic brakes.
11. सुपर चार्जिंग की आवश्यकता फ्यूल आयल के अच्छे कम्बश्चन के लिये है. (सही)
    For the complete fuel combustion super charging is required.
12. TSC सुपर चार्जिंग के लिये लगा है. (सही)
    TSC is provided for super charging.
13. TSC में कुल 5 केसिंग हैं. (गलत)
    TSC has total 5 casings.
14. TSC एवं आफ्टर कूलर के बीच के ज्वाइंट को एक्सटैंशन ज्वाइंट कहते हैं. (गलत)
    The joint between TSC and after cooler is called extension joint.
15. आफ्टर कूलर में हवा के द्वारा पानी ठ्न्डा होता है. (गलत)
    Water is cooled by Air in the after cooler.
16. आफ्टर कूलर के टेल-टेल पाइप से पानी आने पर सेक्शन क्लियर करके लोको फेल करें. (गलत)

    Loco declared fail after clearing the section when water leaking from after cooler tail-tell pipe.
17. आफ्टर कूलर की जाँच करने के लिये इंस्पेक्शन कवर लगा है. (सही)
    Inspection cover is provided for Inspection of after cooler.
18. WDG3A लोको में अधिकतम BAP 1.75 $kg/cm^2$ बनता है. (गलत)
    Maximum BAP buildup in WDG3A loco is 1.75kg/cm2.
19. WDG3A लोको में TSC का रन डाउन टेस्ट लेना चाहिये. (गलत)
    Run down test of TSC should be taken in WDG3A loco.

20. बूस्टर एयर प्रेशर का सेंसर पाइप निकल जाने पर हालिंग पावर प्रभावित होती है. (सही)

Hauling power is effected when BAP sensor pipe is uncoupled.

21. WDG3A लोको में दो एयर मेज़ आयल बाथ फिल्टर लगे हैं. (गलत)

Two air maize oil bath filters is provide in WDG3A loco.

22. MCBG में हालिंग पावर कम मिलने पर BAP बाई पास स्विच को बाई पास पर रखें. (सही)

Kept BAP by pass switch on by pass position when hauling power poor in MCBG governor loco.

23. फ्यूल आयल प्रेशर ड्रॉप होने पर बूस्टर एयर प्रेशर कम बनता है. (सही)

BAP is less when fuel oil pressure is dropping.

24. DEB सर्किट ब्रेकर सायक्लोनिक मोटर के लिये है. (सही)

DEB circuit breaker is providing for cyclonic motor.

25. V-गलरी अल्टर्नेटर रूम में लगी है. (गलत)

V-gallery is located in alternator room.

26. चिमनी से नीला धुआँ आने पर लोको फेल करें. (गलत)

Loco failed when blue smoke is coming from chimney.

27. WDG3A लोको में TSC को सक्शन साइड जोडा गया है. (गलत)

TSC is connected in suction side in WDG3A loco.

28. WW गवर्नर में BAP का सेंसर पाइप लगा है. (सही)

BAP sensor pipe is provided in WW governor.

29. क्रैंक केश सम्प में ल्यूब आयल भरने के लिये फिलिंग कैप इंजिन फ्री एण्ड लैफ्ट साइड लगा है. (गलत)

Lube oil filling cap is provided on engine left side free end.

30. ल्यूब आयल पम्प चलाने के लिये 64 वोल्ट डी सी की आवश्यकता है. (गलत)

Lube oil pump is driven by 64 volt DC.

31. ल्यूब आयल गेज पर अधिकतम निशान 400 लीटर है. (गलत)

Maximum mark on lube oil dipstick gauge is 400 litters.

32. ल्यूब आयल पम्प इंजिन के राइट साइड फ्री एण्ड पर लगा है. (सही)

Lube oil pump is located on engine right side free end.

33. WDG3A लोको में ल्यूब आयल कैपेसिटी 1220 लीटर है. (गलत)

Lube oil capacity of WDG3A loco is 1220 litters.

34. ल्यूब आयल रिलीफ वाल्व कम्प्रेशर रूम में राइट साइड लगा है. (सही)

Lube oil relief valve is located in engine right side compressor room.

35. सेंट्रीफ्यूगल आयल क्लीनर से ल्यूब आयल साफ किया जाता है. (सही)

Lube oil is filtered in centrifugal oil cleaner.

36. ल्यूब आयल सम्प में लेवल यदि बढा हुआ मिलने पर लोको फेल करेंगे . (सही)

Loco failed when lube oil level increased.

37. CCM के कार्य न करने पर सेक्शन क्लियर करके लोको फेल करें. (सही)

Loco failed after clearing the section when CCM not working.

38. स्प्रिंग लोडेड एक्सप्लोजन डोर एल-2,आर-2 क्रेंक केस कवर पर लगे हैं. (गलत)

Spring loaded type explosion door is fitted in place of L2, R2 crank case cover.

39. CCM के एक्जास्ट पाइप से पानी की बूँदें निकलने का मतलब ल्यूब आयल में पानी मिलना. (सही)

Water comes from CCM exhaust pipe means water mixing in lube oil.

40. ल्यूब आयल में पानी मिलने पर लोको फेल करें . (सही)

Fail the loco when water mixing in lube oil.
Radiator room door kept in open for cooling of water.
Control unit of MCBG located in place of governor.

41. IRAB1 ब्रेक सिस्टम में AB का मतलब आटोमैटिक ब्रेक है. (गलत)

Means of AB is automatic brake in IRAB1 brake system.

42. ए-9 की फुल सर्विस पोजीशन पर 2.5 kg/cm2 बी.पी. प्रेशर ड्राप होता है. (गलत)

Full service position of A9 BP will drop 2.5kg/cm2.

43. ए-9 की इमरजेंसी पोजीशन पर बी.पी.पाइप से सीधा बी.पी. ड्राप होता है. (सही)

In emergency position of A9 BP will drop directly from brake pipe.

44. MU2B वाल्व कंट्रोल स्टैण्ड पर लगा है. (गलत)

MU2B valve is located on control stand.

45. ¾" COC नोज कंपार्ट्मेन्ट में लगा है. (सही)

¾" COC is located in nose compartment

46. C3W डिस्ट्रीब्यूटर वाल्व कंजक्शन ब्रेकिंग के लिये लगा है. (सही)

C3W distributor valve is provided for conjunction working.

47. P&G हैण्डल सी-2 रिले वाल्व पर लगा है. (गलत)

P&G handle is located on C2 relay valve.

48. WDG3A लोको में फुट पैडल स्विच दबाने पर D1 पायलट वाल्व इनरजाइज होता है. (सही)

D1 pilot valve energized while pressing foot paddle switch in WDG3A loco.

49. WDG3A लोको में कंजक्शन ब्रेक 3.0kg/$cm^2$ से लगता है. (गलत)

Conjunction brake is applied with 3.0kg/$cm^2$ pressure in WDG3A loco.

50. पैसेंजर गाडी में P&G हैण्डल पी पर होना चाहिये. (सही)

In passenger train P&G handle should be in 'P' position.

51. P&G हैण्डल पी पर रखने पर कंजक्शन ब्रेक धीरे-धीरे लगते हैं तथा रिलीज होते हैं. (गलत)

Conjunction brake is applied or release gradually when P&G handle kept on 'P'.

52. कंजक्शन ब्रेक रिलीज न होने पर आयसोलेटिंग हैण्डल से रिलीज करें. (गलत)

When conjunction brake not released same is released by isolating handle.

53. WDG3A लोको में एसए-9 की तीन पोजीशन होती हैं. (गलत)

SA9 valve have three positions in WDG3A loco.

54. WDG3A लोको में कंजक्शन ब्रेक 1.8kg/$cm^2$ से लगते हैं. (सही)

Conjunction brakes applied with 1.8kg/$cm^2$ pressure in WDG3A loco.

55. बी.सी. ईक्वलाइजिंग पाइप में प्रेशर एसए-9 की रिलीज पोजीशन में रहता है. (गलत)

In release position of SA9 pressure available in BC equalizing pipe.
If horn is working and MR gauge shows '0' kg/$cm^2$ it means J-filter COC is closed.
Brake system will not work when MR gauge shows '0' kg/$cm^{2.}$

56. एसए-9 की रिलीज पोजीशन पर ब्रेक सिलिंडर प्रेशर एडजेस्ट किया जाता है. (गलत)

Brake cylinder pressure to be adjusted in release position of SA9.

57. आरीफिस टेस्ट के दौरान 60सेकिण्ड में 1.0kg/cm2 से अधिक बी.पी. ड्राप होना चाहिये. (गलत)

During orifice test BP will drop more then 1.0kg/$cm^2$ in 60 seconds.
Vacuum test to be done for examine the capacity of compressor.
For the checking of leakages in formation, orifice test to carry out.
During vacuum test 53cm vacuum is created in 1minute.
Leak off test to be done for examine of vacuum leakages.

58. ए-1 डिफरेंशियल पायलट वाल्व का कार्य MU में पीछे वाले लोको से कुछ समय के लिये वैक्यूम बनाने में सहायता करना है. (सही)

In MU the function of A1 differential pilot valve is to create vacuum with the help of trailing loco for time being.

59. ए-9 से इमरजेंसी एप्लाइ करने पर आटो फ्लैशर चालू हो जाता है. (गलत)

60. Auto flasher is activated while applying A9 in emergency.

61. हैण्ड ब्रेक कसने पर एल2 एवं एल3 चक्कों पर ब्रेक लगते हैं. (गलत)

Hand brake is applied brakes on wheel no. L2, L3.

62. हैण्ड ब्रेक रिलीज करने के लिये आपरेटिंग हैण्डल को ऊपर उठायें. (गलत)

Lift up the operating handle for releasing the hand brake.

63. बी.पी. का लीकेज बढने पर एयर फ्लो इंडीकेटर शूट आउट होता है. (सही)

Air flow indicator shoots up when increasing leakage in BP.

64. करंट को C से दर्शाया जाता है. (गलत)

Current is denoted by 'C'.

65. वोल्टेज को 'V' के द्वारा दर्शाया जाता है. (सही)

Voltage is denoted by 'V'.
Full name of MCBG is Medha control based governor.

66. एफ.पी.बी. ट्रिप होने पर इंजिन आयडल पर आयेगा. (गलत)

Engine will comes on idle when FPB trips.

67. WDG3A लोको में फ्यूल रैक 30 mm तक खुलते हैं. (गलत)

In WDG3A loco fuel rack is open up to 30mm.
Operating pressure of WW governor is 100 psi.
Engine is shutting down when D valve picks up alone.
MCBG display unit always shows 6 parameters.

1. WDM2 लोको का एक्सल लोड 21टन होता है (गलत)
   Axle load of WDM2 loco is 21tons.
1. WDM2 लोको लेफ्ट हेंड ड्राइव लोको है (गलत)
   WDM2 loco is a left hand drive type loco.
2. WDM2 लोको द्वारा केवल गुड्स ट्रेन काम की जा सकती है (गलत)
   WDM2 loco can be used for goods train only
3. WDM2 लोको में तीन ट्रांजीशन आते हैं (सही)
   There are three transitions in WDM2 loco.
4. WDM2 लोको के इंजिन को स्टार्ट करने के लिये मेन जनरेटर का उपयोग होता है(सही)
   Main generator is used for start the engine in WDM2 loco.
5. WDM2 लोको की इंजिन होर्स पावर 2900 HP होती है (गलत)
   Engine horse power of WDM2 loco is 2900 HP

6. WDM2 लोको में हाई अडेशन बोगी लगी हैं (गलत)
   High adhesion bogie is used in WDM2 loco.
7. WDM2 लोको में MR-1 लेफ्ट साइड लगा है (सही)
   MR1 is located left side in WDM2 loco.
8. WDM2 लोको की सिरीज 14 से शुरु होती है (गलत)
   Series of WDM2 loco starts from 14.
9. WDM2 लोको की OSTA की सेटिंग $1130^{+-}20$ (सही)
   Setting of OSTA is 1130+-20 in WDM2 loco.
10. WDM2 लोको में BKBL अंडरट्रक में लगी है (गलत)
    BKBL is located in under truck of WDM2 loco

## WDG-4/WDP-4

1 WDG4 लोको का मॉडल नं. GT 46MAC है. (सही)
Model no. of WDG4 loco is GT 46MAC

2. WDP4 लोको का मॉडल नं. GT 46PAC है. (सही)
Model no. of WDP4 loco is GT 46PAC

3. WDP4 लोको में ईवेंट रिकार्डर लगा है. (सही)
Event recorder is provided in WDP4 loco

4. WDG4 लोको की अधिकतम गति 105किमी/घंटा है. (गलत)
Maximum speed of WDG4 loco is 105kmph

5. WDP4 लोको में CO CO HTSC टाइप की बोगी लगी है. (गलत)
CO CO HTSC type bogie is provided in WDP4 loco.

6. WDP4 लोको में TCC-1, TM 1,2,3 और TCC-2 , TM 4,5,6 को कंट्रोल करता है. (गलत)
TCC-1, control TM 1,2,3 and TCC-2 control 4,5,6 in WDP4loco

7. WDP4 लोको में ब्लैण्डिड ब्रेक की सुविधा उपलब्ध है. (सही)
Blended brake facility is available in WDP4 loco

8. WDG4 लोको में स्टार्टिंग स्विच इंजिन कंट्रोल पैनल पर लगा है. (गलत)
Starting switch is provided on ECP in WDG4 loco.

9. WDG-4/WDP-4 लोको का अधिकतम आर.पी.एम.(8नॉच) 950 है. (गलत)
Maximum rpm on $8^{th}$ notch is 950 in WDG-4,WDP-4 loco.

10.WDG-4/WDP-4 लोको मे OSTA की सेटिंग 945-1060 आर.पी.एम. है. (गलत)
Setting of OSTA is 945-1060 rpm inWDG-4/WDP-4 loco.

11. WDG-4/WDP-4 लोको में चार स्ट्रोक 16 सिलिंडर डीजल इंजिन लगा है. (गलत)
Four stroke 16 cylinder Diesel engine provided in GM loco.

12. WDG-4/WDP-4 में TSC इंजिन पावर टेक ऑफ एण्ड पर लगा है. (सही)
TSC located at engine power take off end in WDG-4/ WDP-4 loco.

13. WDG-4/WDP-4 लोको में कम्प्यूटर कंट्रोल ब्रेक सिस्टम लगा है. (सही)
Computer control brake system provided in WDG-4/WDP-4 loco.

14. GM लोको के इंजिन का फायरिंग आर्डर,1-4-7-6-8-5-2-3 (R-L).है. (गलत)
GM loco firing order is 1-4-7-6-8-5-2-3 (R-L).

15. GM लोको में TSC 5 नॉच तक गियर व क्लच से चलता है तथा 6 नॉच से एक्झास्ट गैसों से चलता है. (गलत)

TSC is driven by clutch & gear up to 5th notch and from 6th notch by exhaust gases in GM loco.

16. GM लोको में CCM के स्थान पर इडक्टर ट्यूब लगी है. (सही)
Iductor tube is provided in place of CCM in GM loco.

17. GM लोको में कूलिंग कॉयल रेडियेटर रूम में लगी है. (सही)
Cooling coil is located in radiator room in GM loco.

18. GM लोको में A-9 को ऑटो ब्रेक कहते हैं. (सही)
Name of A-9 is auto brake in GM loco.

19. WDG-4 लोको मेंलूब ऑयल डिपिस्टिक गेज इंजिन रूम मेन दोनों ओर लगे हैं. (सही)
Lube oil dipstick gauge located both side of engine room in WDG-4 loco.

20. WDG-4 लोको का वजन 123 टन है. (गलत)
Weight of WDG-4 loco is 123 ton.

21. WDG-4 लोको का गियर रेशो 17:77 है. (गलत)
Gear ratio is 17 -77 in WDG-4 loco.

22. WDP-4 लोको का गियर रेशो 17:90 है. (गलत)
Gear ratio is 17 -90 in WDP-4 loco.

23. WDG-4/WDP-4 लोको में बैट्री नाइफ स्विच नोज रूम में लगा है. (गलत)
Battery knife switch is located in nose room.

24. WDG-4/WDP-4 लोको में सभी टी.एम. को ठंडा करने के लिये एक ही ब्लोअर लगा है जो कि क्लीन एयर कंपार्टमेंट में लगा है. (सही)
One TM blower is provided in clean air compartment for cooling of all TM in WDG-4/WDP-4 Loco.

25.आयसोलेशन स्विच की कुल दो पोजीशन हैं. (सही)
Isolation switch has two positions.

26. WDG-4/WDP-4 लोको में इंजिन क्रेंक करते समय सबसे पहले कृमश: काले,सफेद तथा अंत मे पीले सर्किट ब्रेकर ऑन करना चाहिये. (सही)
While cranking the engine sequentially first black label then white label and at last yellow label circuit breaker to be put ON in WDG-4/WDP-4 loco.

## मायक्रोप्रोसेसर लोको WDM-3D

1. मायक्रोप्रोसेसर लोको में कुल 14 करंट सेंसर लगे हैं. (सही)
Microprocessors loco having 14 current sensors.

2. मायक्रोप्रोसेसर लोको में शून्य गति पर ही रिवर्सर हैण्डल ऑपरेट करना चाहिये।(सही)
Microprocessor loco reverser should be operate when loco speed is 0

3. मायक्रोप्रोसेसर लोको में गाडी स्टार्ट करने में समस्या आती है तो टी.ई. लिमिट स्विच नॉरमल होना सुनिश्चित करें। (सही)
TE limit switch should be normal while starting the train in Microprocessor loco.

4. मायक्रोप्रोसेसर लोको में टी.एम. को आयसोलेट करने पर ट्रान्जिशन की स्पीड सैटिंग भी अपने आप कम हो जायेगी। (सही)
In microprocessor loco after isolation of TM transition speed will be reduce

5. मायक्रोप्रोसेसर लोको में पानी का तापमान $95^0$ सेंटीग्रेट हो जाने पर लोड मीटर 0 पर आता है। (सही)

When temp. comes to$95^0$ c in microprocessor loco load meter comes to 0

6. मायक्रोप्रोसेसर लोको में हॉट इंजि अलार्म $90^0$ सेंटीग्रेट हो जाने पर आता है। (सही)

In microprocessor loco hot engine alarm comes at $90^0$C

7. मायक्रोप्रोसेसर लोको में आयडल स्क्रीन पर VCD काउंटर डिस्प्ले होता है। (सही)

VCD counter will display on IDLE screen in microprocessor loco.

8. मायक्रोप्रोसेसर लोको में डायनामिक के समय VCD काउंटर डिस्प्ले नहीं होता है। (सही)

At the time of dynamic braking VCD counter will not display in microprocessor loco.

9. मायक्रोप्रोसेसर लोको में मोटरिंग के समय VCD काउंटर डिस्प्ले नहीं होता है। (सही)

At the time of motoring VCD counter will not display in microprocessor loco.

10. मायक्रोप्रोसेसर लोको में सामान्य स्थिति में टी.ई. लिमिट स्विच नॉरमल पोजिशन में होना चाहिये। (सही)

TE limit switch should be on normal position in microprocessor loco

11. मायक्रोप्रोसेसर लोको में दुर्घटना होने पर वी.सी.डी डिसेबल स्विच ऑप्रेट कर देना चाहिये। (गलत)

After accident in microprocessor loco VCD disable switch should be operate.

12. मायक्रोप्रोसेसर लोको में मल्टीपल यूनिट के ट्रेलिंग लोको पर MCB1&2 ऑन होना चाहिये। (गलत)

In MU of microprocessor loco MCB1&2 should be ON in trailing loco.

13. मायक्रोप्रोसेसर लोको में वोल्टेज रेगुलेटिंग पैनल नहीं होता है। (सही)

VRP not provided in microprocessor loco.

14. मायक्रोप्रोसेसर लोको में डी,एम.आर. नहीं होता है। (गलत)

DMR is not provided in microprocessor loco.

15. मायक्रोप्रोसेसर लोको में जी.आर2 के स्थान पर बंगी सेंसर लगा है। (सही)

BANGI sensor is provided in place of GR2 in microprocessor loco.

16. मायक्रोप्रोसेसर लोको में जी.आर1 के स्थान पर टंगी सेंसर लगा है। (सही)

TANGI sensor is provided in place of GR1 in microprocessor loco.

17. मायक्रोप्रोसेसर लोको में हॉट इंजिन अलार्म के लिये ई.टी.एस.1,2,3 लगे हैं। (गलत)

ETS1,2,3 are provided for hot engine alarm in microprocessor loco.

18. मायक्रोप्रोसेसर वर्जन-2 लोको में व्हील स्लिप करंट डिफरेंस पर आधारित है। (गलत)

Wheel slip based on current difference in microprocessor version-2 loco.

19. मायक्रोप्रोसेसर लोको में मेन मैन्यू के चार ऑप्शन होते हैं। (सही)

There are four options available in main menu of microprocessor loco.

20. मायक्रोप्रोसेसर लोको में वी.सी.डी रिसेट करने के लिये रिसेट बटन लगा है। (सही)

Reset button is provided for resetting VCD in microprocessor loco.

21. मायक्रोप्रोसेसर लोको में सामान्य अवस्था में वी.सी.डी ई.पी.मैगनेट वाल्व का सी.ओ.सी क्लोज होना चाहिये। (गलत)

COC of VCD magnet valve should be close normally in microprocessor loco.

22. मायक्रोप्रोसेसर लोको में लोड मीटर प्रतिबन्धित क्षेत्र में जाने पर थ्रॉटल नॉच कम करना

चाहिये। (गलत)

In microprocessor loco throttle notch should be reduced when load meter in restricted zone.

23. मायक्रोप्रोसेसर लोको में हॉट इंजिन अलार्म आने पर थॉटल नॉच कम करना चाहिये। (गलत)

In microprocessor loco throttle notch should be reduced when hot engine alarm comes.

## संक्षिप्त टिप्पणी लिखें / Short Notes

1. मेंन क्रैंक शाफ्ट् के साथ घूमने वाले उपकरण के नाम लिखें
   Write the name of part move with main crack shaft
2. कंट्रोल कम्पार्टमेंट में लगे उपकरण के नाम लिखें
   Write the name of part located in control compartment
3. लोको के अंडरट्रक में लगे उपकरणों के नाम लिखें
   Write the name of part located in under truck
4. FTTM
5. RTTM
6. फ्यूल आयल चैक करने का तरीका
   How to check the fuel oil
7. फ्यूल आयल सिस्टम का चित्र बनायें
   Draw the fuel oil system diagram
8. फ्यूल आयल प्रैशर नहीं बनता है
   Fuel oil pressure not buildup
9. फ्यूल आयल लीकेज के स्थान लिखें
   Write the places of fuel oil leakage
10. फ्यूल पम्प मोटर काम नहीं करती है
    Fuel pump motor not working
11. फ्यूल इंजेक्शन पम्प
    Fuel injection pump
12. मेन क्रैंक शाफ्ट
    Main crank shaft
13. फ्यूल बचत के उपाय
    Fuel economy
14. एअर लॉक निकालने का तरीका लिखें
    Procedure of air lock removing
15. FIP आइसोलेट करने का तरीका लिखें
    Procedure of FIP isolation
16. TSC
17. सुपर चार्जिंग से क्या समझते हो
    What is the meaning of super charging
18. TSC कुल कितने प्रकार की होती है उनके नाम लिखें
    How many types of TSC write the name
19. एअर इंटेक सिस्टम का चित्र बनाये
    Draw the diagram of Air intake system
20. आफ्टर कूलर
    After cooler
21. बूस्टर एयर प्रैशर नंहीं बनता
    Booster pressure not buildup
22. क्रैंक केस सम्प का तेल चैक करने का तरीका
    Procedure for lube oil checking.
23. ल्यूब आयल प्रैशर नंहीं बनता
    Lube oil pressure not buildup.

24. ल्यूब आयल सिस्ट्म का चित्र बनायेँ
Draw a diagram of lube oil system.
25. ल्यूब आयल लीकेज के स्थान लिखेँ
Write the places of lube oil leakages.
26. एक्स्प्लोजन डोर
Explosion door
27. क्रैंक केस सम्प मेँ तेल का लेवल बढ रहा है
Increase oil level in crank case sump.
28. वाटर कूलिंग सिस्ट्म का चित्र बनायेँ
Draw a diagram of Water Cooling System
29. पानी के लीकेज के स्थान लिखेँ
Write the places of water leakages.
30. डिजिटल वाटर लेवल इंडीकेटर
Digital water level indicator
31. रेडिएटर फैन कार्य नहीँ करता है
Radiator fan not working.
32. हॉट इंजिन संकेत के साथ इंजिन शटडाउन होता
Engine shuts down with hot engine indication.
33. केमीकल युक्त पानी के फायदे लिखें
Write benefits of chemically treated water.
34. प्रैशराइज्ड वाटर कूलिंग सिस्ट्म के फायदे लिखें
Write the benefits of pressurized cooling water system.
35. हॉट इंजिन अलार्म आने पर क्या करेंगे
What action to be taken when hot engine comes.
Duties of loco crew regarding WW governor
36. फ्यूल पम्प मोटर
FPM
37. क्रैंक केस एक्झास्टर मोटर
CCM
38. ट्रेक्शन मोटर
Traction motor
39. ट्रेक्शन अल्टरनेटर
Traction alternator
40. एक्साइअटर जनरेटर
Exciter generator
41. ऑग्जीलरी जनरेटर
Auxiliary generator
42. टेको जनरेटर
Techo generator
43. साक्लोनिक मोटर
Cyclonic motor
44. डायनामिक ब्रेकिंग ब्लोअर मोटर
Dynamic braking blower motor
45. ECC एसेंब्ली

ECC

46. पावर डायोड रेक्टीफायर ब्लोअर मोटर
    Power diode rectifier blower motor
47. बैटरी चार्जिंग सर्किट का चित्र बनायें
    Draw a diagram of battery charging system
48. बैटरी चार्ज न होने के कारण एवं निवारण लिखें
    Trouble shooting of battery not charging
49. बैटरी डिसचार्ज होने के कारण एवं निवारण लिखें
    Trouble shooting of battery discharging
50. बैटरी ओवर चार्ज होने के कारण एवं निवारण लिखें
    Trouble shooting of battery over charging
51. वोल्टेज रेगूलेटिंग पैनल
    Voltage regulating panel
52. इंजिन स्टार्ट करने से पहले ली जाने वाली सावधानियाँ लिखें
    Precautions to be taken before engine starting
53. इंजिन क्रैंक नहीं होता हैं
    Engine is not cranking
54. इंजिन क्रैंक होता हैं परंतु स्टार्ट नहीं होता हैं
    Engine cranking but not starting
55. इंजिन बिना संकेत के बंद होता हैं
    Engine shut down with out indication
56. OSTA रिसेट करने का तरीका लिखें
    Procedure of OSTA resetting
57. इंजिन क्रैंकिंग के समय ओवर स्पीड होता है
    Engine over speed when cranking
58. GFC पिक अप नहीं होता है
    GFC not pickup
59. GFC वेज करने का तरीका लिखें
    Write the procedure of GFC wedging
60. GFC सर्किट का चित्र बनाये
    Draw a diagram of GFC circuit
61. GFC वेज करने से पहले एवं बाद में ली जाने वाली सावधानियाँ लिखें
    Precaution to be taken before and after wedging GFC.
62. पावर कॉन्टेक्टर पिक अप नहीं होते हैँ
    Power contactor is not picking up.
63. प्रथम नोच करेँट चैक करने का तरीका लिखें
    Write the procedure of check first notch current
64. लोको चलाने का तरीका लिखें
    How to move the loco.
65. ट्रांजीशन
    Transition
66. ट्रांजीशन नहीं आते हैं
    Transition is not coming.
67. थ्रॉटल खोलने पर लोको नहीं चलता है

Loco not responding to throttle

68. व्हील स्लिप क्या है और कितने प्रकार के होते है
What is wheel slip and its types.
69. क्षणिक व्हील स्लिप के कारण एवं निवारण लिखें
Trouble shooting of momentary wheel slip
70. लगातार व्हील स्लिप के कारण एवं निवारण लिखें
Trouble shooting of continuous wheel slip
71. पावर ग्राउंड
Power ground
72. GR रिसेट करने का तरीका लिखें
How to reset GR
73. ओ.एस.टी.ए.
OSTA
74. डी.एम.आर.
DMR
75. जी.आर.
GR
76. जी.एफ.ओ.एल.आर.
GFOLR
77. एस.ए.आर.
SAR
78. पी.सी.एस.
PCS
79. इ.टी.एस.3
ETS3
80. एल.डब्लू.एस.
LWS
81. डब्लू.एस.आर.
WSR
82. ओ.पी.एस.
OPS
83. हॉट इंजिन अलार्म
Hot Engine Alarm
84. सर्किट ब्रेकर की कितनी पोजीशन होती है और उसे रिसेट करने का तरीका लिखें
How to reset the circuit breaker and its position
85. मल्टीपल यूनिट
Multiple Unit
86. मल्टीपल यूनिट बनाने का तरीका लिखें
Procedure for making Multiple Unit
87. मल्टीपल यूनिट में कैब बदलने का तरीका लिखें
Cab changing procedure in Multiple Unit
88. मल्टीपल यूनिट में डेड लीडिंग लोको से गाडी चलाने का तरीका लिखें
Procedure for work the train with dead leading in MU
89. मल्टीपल यूनिट में लीडिंग एवं ट्रेलिंग लोको में स्विच व ब्रेकर की पोजीशन लिखें

Write the position of switches and circuit breakers of leading and trailing loco in MU

90. ट्रेलिंग लोको में खराबी आने पर दोनो लोको में मिलने वाले संकेत लिखें
Indication comes on both locos when defects in trailing loco

91. लोको ब्रेक सिस्टम का डायग्राम बनाये
Draw a diagram of loco brake system.

92. लोको ब्रेक एप्लीकेशन समझायें
Explain application of loco brake.

93. लोको ब्रेक नहीं लगते है
Loco brake not applying

94. लोको ब्रेक रिलीजिंग समझायें
Explain releasing of loco brake

95. लोको ब्रेक रिलीज नहीं होते
Loco brake not releasing.

96. ब्रेक सिलिंडर प्रैशर एडजस्टर करने का तरीका लिखें
How to adjust brake cylinder pressure

97. SA9 वाल्व
SA9 valve

98. BP चार्जिंग का डायग्राम बनाये
Draw the diagram of BP charging

99. BP चार्जिंग समझायें
Explain BP charging

100. BP डिस्चार्जिंग समझायें
Explain BP discharging

101. BP प्रैशर एडजस्टर करने का तरीका लिखें
How to adjust brake BP pressure

102. BP प्रैशर नहीं बनता है
BP pressure not building up

103. A9 वाल्व
A9 valve

104. C3W डिस्ट्रीबूटर वाल्व
C3W distributor valve

105. IRAB-1 ब्रेक सिस्टम में कंजंक्शन वर्किंग को समझायें
Explain conjunction working in IRAB1 brake system

106. ऑरीफिस टेस्ट
Orifice test

107. वेक्यूम टेस्ट
Vacuum test

108. लीक ऑफ टेस्ट
Leak off test

109. हैंड ब्रेक
Hand brake

110. बैंकर ऑपरेशन लिखें
Banker operation

111. एयर फ्लो इंडीकेटर
Air flow indicator
112. पेसेंजर अलार्म सिस्टम
Passenger alarm system
113. साइन ऑन करते समय ALP/LP की ड्यूटी लिखें
Duties of ALP at the time of sign on
114. चार्ज लेते समय ALP/LP की ड्यूटी लिखें
Duties of ALP at the time of charge taken over
115. चलती गाडी में ALP/LP की ड्यूटी लिखें
Duties of ALP in running train
116. हॉल्ट पर ALP/LP की ड्यूटी लिखें
Duties of ALP at the time of halt
117. शेड से लोको निकालते समय ALP/LP की ड्यूटी लिखें
Duties of ALP at the time loco taken over from shed
118. डायनामिक ब्रेक के फायदे लिखें
Advantages of dynamic brake
119. डायनामिक ब्रेक लगाने का तरीका लिखें
How to apply dynamic brake
120. डायनामिक ब्रेक लगाते समय सावधानियाँ लिखें
Precautions to be taken during dynamic brake
121. डायनामिक ब्रेक के समय होने वाले परिवर्तन
Changes comes during dynamic braking
122. पावर कॉन्टेक्टर
Power contactor
123. बी.के.टी.
BKT
124. रिवर्सर
Reverser
125. कंट्रोल स्टैंड पर लगे विभिन्न इंडीकेशन के नाम लिखें
Indication lamps provided on control stand
126. फ्रंट पेनल पर लगे विभिन्न इंडीकेशन के नाम लिखें
Indication lamps provided on front panel
127. तेल देखने के स्थान लिखें
Write oil checking points
128. मोटर कट आउट स्विच
Motor cut out switch
129. लोडमीटर
Load meter
130. व्हील स्किडिंग के कारण एवं निवारण लिखें
Trouble shooting of wheel skidding
131. ब्रेक वाइंडिंग के कारण एवं निवारण लिखें
Trouble shooting of brake binding
132. लोको पर लगे विभिंन गेजो के नाम लिखें
Write different gauges provided on loco

133. सेफ्टी फिटिंग के नाम लिखें
Name of safety fittings
134. कंट्रोल स्टैंड बदलने का तरीका लिखें
Procedure of control stands changing
135. लोको स्टेबल करने का तरीका लिखें
Procedure of loco stabling
136. डेड लोको क्लिअर करने तरीका लिखें
Dead loco clearing procedure
137. ट्विन बीम हेड लाईट
Twin beam head light
138. हेड लाईट स्विच कितनी पोजीशन होती है तथा उनके उपयोग लिखें
Write down positions and uses of head light switch
139. ऑटोफ्लैशर लाईट
Auto flasher light
140. लॉबी में उपलब्ध विभिन्न रजिस्टर के नाम लिखें
Write down the name of different registers available in lobbies
141. चढाई से गाडी स्टार्ट करने का तरीका लिखें
How to start the train on gradient
142. डबल हेड वर्किंग
Double head working
143. लोको को लोड पर जोडना
How the loco attach on load
144. फ्लैशर लाईट का उपयोग कब-कब किया जाता है
Write the uses of flasher light
145. सेंडर्स का उप्योग
Write down the uses of sanders
146. GM लोको की विशेषतायें
Silent features of GM locos
147. WDG4/WDP4 क्न्ट्रोल क्न्सोल बदलने का तरीका
Procedure of control console changing in WDG4 locos.
148. हाट आयल डिटैक्टर
Hot oil detector
149. क्रो बार फायर
Crow bar fire
150. कम्युनिकेशन फेल्युअर
Communication link failure
151. WDG4/WDP4 में ट्रक आयसोलेट करने का तरीका
Procedure for isolation of truck in WDG4/WDP4 locos
152. WDG4/WDP4 लोको में सर्किट ब्रेकर रिसायकल करने का तरीका
Procedure for recycling of circuit breaker in WDG4/WDP4 locos
153. WDG4/WDP4 में ट्रैक्शन के समय पावर ग्राउण्ड
Power ground traction in WDG4/WDP4
154. WDG4/WDP4 लोको में लाक्ड एक्सल
Locked axle in WDG4/WDP4 loco

155. इंजिन प्रोटैक्टिव डिवाइस
Engine protective device
156. WDG4/WDP4 डेड लोको क्लियर करने का तरीका
Dead loco clearing procedure in WDG4/WDP4 loco
157. WDG4/WDP4 में अलर्टर(VCD) की कार्य प्रणाली
Functions of alerter in WDG4/WDP4 loco
158. WDG4/WDP4 की OSTA
OSTA of WDG4/WDP4 loco
159. लीड एण्ड ट्रेल सेट अप स्विच
Lead and trial set up switch
160. WDP4 में लगे ब्लैंडिड ब्रेक
Blended brake WDP4 loco
161. इमरजेंसी फ्यूल कट आफ स्विच
Emergency fuel cut off switch
162. WDG4/WDP4 पावर ग्राउण्ड डायनेमिक के समय
Power ground dynamic in WDG4/WDP4 loco
163. MRPT मेन रिजर्वायर प्रेशर ट्रांसड्यूसर
Main reservoir pressure transducer
164. रडार
Radar
165. फ्यूल प्राइम/स्टार्ट स्विच
FP/Start switch
166. WDG4/WDP4 का LLOB
LLOB of WDG4/WDP4 loco
167. कंट्रोल स्टैंड सिक्यौर करने का तरीका
Procedure for securing control stand
168. WDG4 लोको में डायनामिक ब्रेक लगाने का तरीका
Procedure for applying dynamic brake in WDG4 loco
169. WDG4/WDP4 लोको में तेल देखने के स्थान
Oil checking points in WDG4/WDP4 loco
170. WDG4/WDP4 लोको के अंडरट्रक में लगे उपकरणों के नाम लिखें
Name of equipments located in under truck of WDG4/WDP4 loco
171. WDG4 एवं WDP4 लोको में अंतर लिखें
Difference between WDG4 and WDP4 loco
172. PCS नोक आउट होने पर कार्यवाही
Action to be taken on PCS knocks out
173. सेंसर आईसोलेट करने का तरीका
Procedure of sensor isolation in WDG4/WDP4 loco
174. स्टार्टिंग मोटर न चलने के कारण तथा निवारण
Trouble shooting of starter motors not working
175. माइक्रोप्रोसेसर लोको की विशेषतायें लिखें
Salient features of micro processor loco
176. माइक्रोप्रोसेसर लोको में पावर ग्राउंड रिसेट करने का तरीका
Procedure for resetting of power ground in micro processor loco

177. माइक्रोप्रोसेसर लोको में फील्ड ऑवर लोड का मेसेज आने पर की जाने वाली कार्यवाही

Procedure for resetting of field over load message in micro processor loco

178. माइक्रोप्रोसेसर लोको में होट इंजिन

Hot engine in micro processor loco

179. VCD

Vigilance control device

180. VCD रिसेट करने का तरीका

Procedure for resetting of VCD in micro processor loco

181. VCD ऑपरेट होने पर मिलने वाले संकेत

Write down indication after VCD operates.

182. माइक्रोप्रोसेसर लोको में मेन्युअली फॉल्ट क्लियरकरने का तरीका

Procedure for clearing fault message in micro processor loco

183. मेन मीनू में कितने ऑप्शन होते है उनके नाम लिखें

How many options are there in main menu of micro processor locos?

## विस्तारपूर्वक लिखें / Write in detail

1. WDG3A लोको के कितने भाग होते हैं और उनमे लगे उपकरणों के नाम लिखें
   How many compartments are in WDG/3A loco, write the names of equipments provided in each compartment.
2. पावर पैक के बारे में लिखें
   Write in detail about power pack.
3. फ्रंट पेनल पर लगे उपकरण के नाम लिखें
   Write the name of equipments provided on front panel.
4. लोको के अंडरट्रक में लगे उपकरणों के नाम लिखें
   Write the name of equipments provided in under truck.
5. FTTM एवं RTTM के बारे में लिखें
   Write about FTTM and RTTM.
6. रेडिएटर फैन की कार्य प्रणाली समझायें
   Explain the working of radiator fan.
7. फ्यूल आयल सिस्टम का सचित्र वर्णन करें
   Explain fuel oil system with diagram.
8. फ्यूल आयल बचत् के उपाय लिखें
   Write the point of Fuel economy.
9. एयर इंटेक सिस्टम का सचित्र वर्णन करें
   Explain Air in take system with diagram.
10. बूस्टर एयर प्रैशर नंहीं बनने के कारण एवं निवारण लिखें
    Write trouble shooting Booster air pressure not buildup,
11. ल्यूब आयल सिस्टम का सचित्र वर्णन करें
    Explain Lube oil system with diagram.
12. वाटर कूलिंग सिस्ट्म का सचित्र वर्णन करें
    Explain Cooling water system with diagram.
13. फ़्यूल आयल, ल्यूब आयल के लीकेज के स्थान एवं चैक करने का तरीका लिखें
    Write the location and checking of fuel and lube oil leakage.
14. एक्सप्रैशर
    Explain Expressor.
    Write different uses of MR-1 and MR-2 air.
    Write the cause and remedies of MR pressure not building up.
    MR dropping on run, write the duties of Loco Pilot and causes of dropping.
    Explain compressed air system with diagram.
15. गवर्नर के कार्य लिखें तथा गवर्नर के प्रति लोको क्रू के कर्तब्य लिखें
    Write the function of governor and write the duties of loco crew towards it.
16. MCBG गवर्नर
    Explain MCBG governor.
17. लोको पर लगी रोटेटिंग मशीन के नाम लिखें तथा कार्य को समझायें.
    Write the name of rotating machine and explain the working of rotating machines provided on locomotive
18. बैटरी चार्जिंग सर्किट का चित्र बनाकर समझायें.
    Explain battery charging circuit with circuit diagram.
19. WDG3A लोको के इंजिन को स्टार्ट करने तरीका लिखें.

Write the engine starting procedure of WDG-3A loco.

20. GFC सर्किट का चित्र बनाये एवं GFC वेज करने से पहले एवं बाद में ली जाने वाली सावधानियाँ लिखें

    Draw GFC circuit and write the precaution taken before and after wedging the GFC.

21. थ्रॉटल खोलने पर लोको नहीं चलता है.

    Trouble shoots throttle not responding to loco.

22. मल्टीपल यूनिट बनाने का तरीका लिखें.

    Write the procedure of making multiple unit.

23. मल्टीपल यूनिट में कैब बदलने का तरीका लिखें.

    Write the cab changing procedure in multiple unit.

24. ट्रेलिंग लोको में खराबी आने पर दोनो लोको में मिलने वाले संकेत लिखें.

    Write the indications on the both loco when trouble in trailing loco of multiple unit.

25. लोको ब्रेक सिस्टम का सचित्र वर्णन करे.

    Explain loco brake system with diagram.

26. BP चार्जिंग का सचित्र वर्णन करे.

    Explain BP charging with diagram.

27. IRAB-1 ब्रेक सिस्टम समझायें.

    Explain IRAB-1 brake system with diagram.

28. शेड से लोको निकालते समय ALP/LP की ड्यूटी लिखें.

    Write the duties of LP/ALP in shed while turn out the loco.

29. चलती गाडी में एवं हॉल्ट पर LP/ALP की ड्यूटी लिखें.

    Write the duties of LP/ALP on run and on hault towards loco.

30. डायनामिक ब्रेक के फायदे, डायनामिक ब्रेक लगाने एवं रिलीज करने का तरीका लिखें.

    Write the procedure of dynamic brake application and releasing, and advantages of dynamic brakes.

31. डायनामिक ब्रेक के समय होने वाले परिवर्तन.

    Write changes take place during dynamic braking.

32. लोको पर लगी सेफ्टी फिटिंग के नाम तथा काम लिखें.

    Write the name and function of safety fittings provided on loco.

33. तेल देखने के स्थान एवं चैक करने का तरीका लिखें.

    Write the place of oiling points and Write the method of checking.

34. व्हील स्किडिंग के कारण एवं निवारण लिखें.

    Write the Reasons and remedies of wheel skidding in loco.

35. लॉबी में उपलब्ध विभिन्न रजिस्टर के बारे में लिखें.

    Write on different registers provided in crew lobbies.

36. WDG-3A एवं WDM-2 लोको में अंतर लिखें.

    Write difference between WDG-3A and WDM-2.

37. WDG-3A एवं WDM-3D लोको में अंतर लिखें.

    Write difference between WDG-3A and WDM-3D.

38. WDG-3A एवं WDG-4 लोको में अंतर लिखें.

    Write difference between WDG-3A and WDG-4.

39. लोको पर लगी सेफ़्टी डिवाईस के नाम लिखें तथा कार्य को समझायें.

    Write the name of safety devices and explain their function provided on loco.

40. कंटोल स्टैंड पर लगे सभी इंडीकेशन लेम्प के बारे में लिखें.

Write the all indication lamps provided on control stand and their indication.

41. फ्रंट पेनल पर लगे सभी इंडीकेशन लेम्प के बारे में लिखें.

Write the all indication lamps provided on front panel and their Indication.

42. लोको पर लगे सभी सर्किट ब्रेकर के बारे में लिखें.

Write in detail about all the circuit breakers provided on the locomotive.

43. लोको में लगी सभी रिले के बारे में लिखें.

Write in detail about all the relays provided on the locomotive.

44. WDM-3D लोको के इंजिन को स्टार्ट करने का क्रमबध्य तरीका लिखें.

Write the engine starting procedure of WDM-3D loco.

45. माईक्रोप्रोसेसर लोको की विशेषतायें.

Write the silent feature of microprocessor loco.

46. कनवेंशनल लोको के अतिरिक्त, MEP-660 लोको में लगाये गये एवं निकाले गये सामान लिखें.

Write the name of equipment removed and provided in MEP-660 in comparison of conventional loco.

47. माईक्रोप्रोसेसर लोको में TM आइसोलेट करने का तरीका बतायें तथा मोटर आइसोलेट होने पर क्या परिवर्तन होगें.

Write the procedure of TM isolation in microprocessor loco and what are the changes take place after isolation of TM.

48. VCD द्वारा पेनाल्टी ब्रेक लगने पर मिलने वाले संकेत तथा रीसेट करने का तरीका लिखें.

What indication you will get on penalty braking through VCD and how to reset the VCD.

49. डिस्प्ले यूनिट द्वारा MENU मे जाकर फॉल्ट देखने एवम मेनुअली फॉल्ट क्लियर करने का तरीका लिखें.

50. How to visualize and reset the fault through MENU on display unit

51. माइक्रोप्रोसेसर लोको कार्य करते समय ली जाने वाली सावधानियां.

Write the precaution taken while working on microprocessor loco

52. लोको पायलट क्या करे जब निम्न मेसेज आते है.(माईक्रोप्रोसेसर लोको में)

What action has to be taken by Loco Pilot on observing following Messages on MEP-660 provided loco?

1. Switch on CEB breaker
2. LLOB Trip, Reset plunger
3. Engine temp. high, Reduce power
4. Power circuit Ground
5. High wheel slip is occurred
6. Alternator field over current.
7. Battery voltage low
8. Cranking contractor CK stuck close
9. DEB Engine breaker OFF
10. Rectifier blower failed

53. माइक्रोप्रोसेसर लोको वर्जन -3 की विशेषतायें लिखें.

Write the silent feature of microprocessor version – 3 loco

54. WDG4/ WDP4 इंजिन स्टार्ट करने का तरीका लिखें.

Write the engine starting procedure of WDG4/P4 loco.

55. WDG4/ WDP4 इंजिन बंद करने का तरीका लिखें.
Write the engine stopping procedure of WDG4/P4 loco.

56. WDG4/ WDP4 लोको की विशेषताएं लिखें.
Write silent feature of WDG4/P4 loco.

57. WDG4 का मल्टीपल यूनिट बनाने का तरीका लिखें.
Write the procedure of making multiple unit in WDG4 loco.

58. WDG4/ WDP4 में ट्रक आयसोलेशन का तरीका लिखें.
Write the Procedure for isolating the truck in WDG/4/P4 loco.

59. WDG4/ WDP4 लोको का एयर ब्रेक सेल्फ टेस्ट लेने का तरीका लिखें.
Write the Procedure of air brake self test in WDG/4/P4 loco.

60. WDG4 मल्टीपल यूनिट लोको में कैब बदली करने का तरीका लिखें.
Write the cab changing procedure in WDG4 loco multiple unit.

61. WDG4/ WDP4 लोको में एम, आर. प्रेशर ड्राप हो रहा है.
Write the trouble shooting of MR pressure dropping in WDG/4/P4 loco.

62. WDG4 लोको के विभिन्न कम्पार्टमेंट तथा उनमें लगे मुख्य सामान जानकारी.
Write the all compartments of WDG4 loco and equipments fitted in it.

63. WDG4 लोको की सेफ्टी डिवाईस का वर्णन करें.
Explain the safety device of WDG-4 loco.

64. WDG4/ WDP4 डेड लोको क्लियर करने का तरीका लिखें.
Write how to clear the WDG/4/P4 dead loco.

65. WDG4/ WDP4 लाईव इंजिन क्लियर करने का तरीका लिखें.
How to clear the WDG/4/P4 live loco.

# *MULTIPLE CHOICE QUESTION BANK FOR AOM/ATM EXAM*

***H.RAGHURAM/TI/PUNCTUALITY***

**Exhaustive Multiple Choice Questions in G&SR, BWM, Accident Manual**

**1.** The Section under which General Rules for Open Lines of the Railways 1976 have been framed by the Government of India is

[A] 197 [B] 198 [C] 175 [D]48

**2.** Every Railway Servant is bound by the General Rules, the Subsidiary Rules and special instructions under Railways Act 1989 Section

[A] 197 [B] 198 [C] 175 [D]48

**3.** Latest Amendment slip issued to G&SR is

[A] 32 [B] 33 [C] 34 [D]35

**4.** Staff on leaving service, G&SR Book shall be .

[A] Keep it with himself [B] Submit to another staff who requires it
[C] Return to Railway Administration [D]Sell it outside

**5.** Total number of Chapters in General & Subsidiary Rules are

[A] 16 [B] 17 [C] 18 [D] 20

**6.** Total number of Appendices in General & Subsidiary are

[A] 16 [B] 17 [C] 18 [D] 20

**7.** The definition of 'Act' as per G&SR means the section under Railways Act 1989 is

[A] 24 [B] 25 [C] 26 [D] 28

**8.** General Rules can be framed by

[A]Government of India[B] Authorised Officer[C] General Manager[D] COM

**9.** Approved special instructions are issued or approved by

[A] COM [B] Authorised Officer [C] CRS [D] Railway Board

**10.** The authorized officer of South Central railway is

[A] PCOM [B] GM [C] CTM [D] CSO

**11.** Subsidiary rules are framed by

[A] CTM [B] CSO[C] Authorised Officer [D] Railway Board

**12.** A fixed stop signal of a station controlling the entry of trains into next block section is

[A] FSS [B] LSS [C] Outer [D] Home

**13.** This includes a train, vehicle or obstacle on or fouling a line, or any condition which is dangerous to trains.

[A] shunting [B] connection [C] communication [D] Obstruction

**14.** Message from a block station to the block station in rear on double line or to next block station on either side on a single line, that the block section is obstructed or is to be obstructed is

[A] Shunting [B] Caution order [C] Block Forward [D] Block back

**15.** Message from a block station to the block station in advance on double line, that the block section is obstructed or is to be obstructed is

[A] Shunting [B] Caution order [C] Block Forward [D] Block back

**16.** When Points by their operation a train approaching them can be directly diverted from the line upon which it is running is known as

[A] Trailing Points [B] Facing Points [C] Derailing switch [D] Trap Point

**17.** Mark at which infringement of fixed standard dimensions occurs, where two lines cross or join one another is known as

[A] Lime mark [B] Starter signal [C] Fouling Mark [D] Fog signal mark

**18.** Arrangement, secured by the setting of points or other approved means, to protect the line so isolated from the danger of obstruction from other connected line or lines is known as

[A] Interlocking [B] Level crossings [C] Line clear [D] Isolation

**19.** Arrangement of signals, points and other appliances, operated from a panel or lever frame, so interconnected by mechanical locking or electrical locking or both that their operation must take place in proper sequence to ensure safety

[A] Interlocking [B] Block station [C] VDU [D] Relays

**20.** Departmental train intended solely or mainly for carriage of railway material when picked up or put down or for execution of works, either between stations or within station limits

[A] Material train [B] Dip Lorry [C] RRV [D] Tower wagon

**21.** Movement of a vehicle or vehicles with or without an engine or of any engine or any other self-propelled vehicle, for the purpose of attaching, detaching or transfer or for any other purpose
[A] Interlocking [B] Shunting [C] Securing [D] Isolation

**22.** As per G&SR 'Night' means

[A] 22.00 hrs to 08.00hrs [B] 20.00 hrs to 06.00hrs [C] Sunrise to Sunset [D] Sunset to Sunrise

**23.** Class 'C'' station on a single line or double line or multiple line remotely controlled from the block station in rear is known as

[A] Gate signal [B] Intermediate Block Post [C] Home signal [D] Automatic signal

**24.** Arrangement of signalling on single line or double line or multiple line in which a long block section is split into two portions each constituting a separate block section by providing an IB Post is

[A] Gate signal [B] LSS [C] Intermediate Block signalling [D] Automatic signalling

**25.** Authority given to the Loco Pilot of a train, under the system of working, to enter the block section with his train is

[A] ATP [B] Home signal [C] Starter [D] Green flag by SM

**26.** A train, which has started under an A T P and has not completed its journey, is

[A] train [B] Running train [C] stabled train [D] none of these

**27.** Permission given from a block station to a block station in rear for a train to leave the latter and approach the former;
[A] Line Clear [B] Block forward [C] Block Back [D] Authority to proceed

**28.** Permission obtained by a block station from a block station in advance for a train to leave the former and proceed towards the latter
[A] Authority to proceed [B] Block forward [C] Block Back [D] Line Clear

**29.** Special instructions are issued by

[A] CTM [B] CSO [C] Authorised Officer [D] Railway Board

**30.** At a Block station the Station Limits are between

[A] two outermost signals [B] two outer signals [C] two FSS [D] Two LSS

**31.** The station limits at Class 'D' station are available between

[A] two platform ends [B] outer signals [C] outermost signals [D] none of above

**32.** The person on duty who is for the time being responsible for the working of the traffic within station limits is

[A] Guard [B] Loco Pilot [C] SM [D] TI

**33.** On Double line class 'B' station Multiple Aspect Signalling, station section lies between

(A) outermost facing points to LSS (B) BSLB to LSS

(C) Either A or B (D) none of above

**34.** On single line 'B' class MAS station, Station section lies between

(A) two Advance Starter (B) two SLB

(C) two outer most points (D) any one of the above

**35.** Station Section is available at

[A] Class 'A' [B] Class 'B' [C] class 'C' [D]Class 'D'

**36.** The system adopted for the time being for the working of trains on any portion of a railway is known as

[A] system of controlling[B] direction of traffic[C] System of working[D] none of these

**37.** Block stations are sub-classified

(A) A, B, C, D (B) B and C (C) A, B, C, Spl class (D) none of above

**38.** At a 'A' class station the distance to be kept free beyond Home signal, before granting line clear is

(A) 300m (B) 400m (C) 200m (D) 180m

**39.** The classification of a station shall be mentioned in the

[A] SWR [B] WTT [C] Both A & B[D] none of these

**40.** Any Block Station which cannot be worked under Class 'A' Class 'B' or Class 'C' conditions is termed as

(A) A class (B) B class (C) D class (D) Special class

**41.** Apart from Physical copy of the Rule Books, Railway Administration can also permit a copy of the Rule Books to be supplied to the Railway Servant to be kept as

A) Zerox copy(B) condensed form (C) Digital form (D) Only physical copy

**42.** Staff acknowledgement shall be taken whenever amendments to rule books are issued for G&SR, Block working Manual, Accident manual & WTT in this register

[A] Acknowledgement [B] Correction slip [C] Assurance [D]Book No Optg-4

**43.** Before taking independent charge, whenever L Ps / AL Ps / SMs / Guards / Switchmen join this Zonal Railway, on transfer, they shall attend

[A] G & SR Initial course [B] G &SR Refresher course

[C] Technical initial course [D] Technical refresher course

**44.** No Railway Servant directly connected with the working of trains shall take or use any alcoholic drink, sedative, narcotic or stimulant drug or preparation before the commencement of his duty within

[A] 6 hours [B] 8 hours [C]10 hours [D]12 hours

**45.** The signal that should not be exhibited if train parting is observed by any Railway Servant, is

[A] stop hand [B] proceed with caution [C] proceed [D] none of these

**46.** Apart from putting both his hands together above his head and separate them smartly, if any railway servant notices that a train has parted, he shall try to attract the attention of the LP and Guard by

(A) shouting and gesticulating (B) show stop hand signal

(C) show proceed hand signals (D) none of these

**47.** When there is a severe storm endangering the safety of passengers trains, SM shall

(A) detain the train (B) refuse to grant line clear

(C) Both A & B (D) none of these

**48.** Wind velocity can be measured by

[A] galvanometer [B] ammeter [C] thermo meter [D] anemometer

**49.** The rule No. of G&SR for Supply of copies of rules is

[A] GR 2.01 [B] SR 2.01 [C] GR 2.02 [D] GR 2.03

**50.** The rule No. of G&SR for keeping digital form of Rule books is given in

[A] GR 2.01 [B] SR 2.01 [C] GR 2.02 [D] GR 2.03

**51.** The rule No. of G&SR for upkeep of the copy of rules is

[A] GR 2.01 [B] SR 2.01 [C] GR 2.02 [D] GR 2.03

**52.** The rule No. of G&SR for attendance for duty is mentioned in

[A] GR 2.05 [B] GR 2.06 [C] GR 2.07 [D] GR 2.08

**53.** The rule No. of G&SR for Absence from duty is mentioned in

[A] GR 2.05 [B] GR 2.06 [C] GR 2.07 [D] GR 2.08

**54.** The rule No. of G&SR for taking alcoholic drink, sedative, narcotic, stimulant drug or preparation is mentioned in

[A] GR 2.07 [B] GR 2.08 [C] GR 2.09 [D] GR 2.10

**55.** When any railway servant is intoxicated or suspected to be in a state of intoxication, immediately the official in-charge shall make arrangements to

[A] Continue on duty [B] Relief from duty [C] Issue major penalty [D] Take no action

**56.** If a railway doctor is not available in case Railway servant found to be intoxicated, official in charge may.

[A] Call Sarpanch of village [B] Take witness of other staff available
[C] Summon Civil Doctor [D] Not take any action

## CHAPTER NO. I I I

**57.** Signals used for controlling movement of trains as per G & SR are

](A) fixed signals (B) hand signals (C) detonators (D)all the above

**58.** Normally fixed signals are placed on the left side of track of an approaching train, provided on right side under the authorization of

[A] GM [B]CRS [C] DRM [D] PCOM

**59.** Whenever fixed signals are placed on the right side of the track of an approaching trains the can be identified through

[A] Caution order [B]Arrow mark [C] Miniature light [D] LR trips

**60.** The signal which tells about the aspect of stop signal ahead is

(A) outer (B) Distant (C) advance starter (D) none of these

**61.** The marker board that is provided to identify Distant Signal in colour light area is.

A)'IB'' B)'P' C) 'G' D)'A'

**62.** The normal aspect of Distant signal is

[A]caution [B]attention [C] stop [D] proceed

**63.** Whenever one yellow light is exhibited in Distant signal the Aspect is

[A]caution [B]attention [C] proceed slow [D] proceed

**64.** Whenever two yellow lights are exhibited in Distant signal the Aspect is

[A]caution [B]attention [C]stop [D] proceed

**65.** The indication of the Distant signal in Caution Aspect is

(A) stop dead
(B) proceed and be prepared to stop at the next stop signal
(C) proceed and be prepared to pass the next stop signal at a restrictive speed
(D) proceed

**66.** The indication of the Distant signal in Attention Aspect is

(A) stop dead
(B) proceed and be prepared to stop at the next stop signal
(C) proceed and be prepared to pass the next stop signal at a restrictive speed
(D) proceed

**67.** Whenever Inner Distant is provided, the aspects that Distant Signal is capable of displaying,

(A) attention, proceed (B) caution, attention

(C) stop, proceed (D) stop, caution

**68.** The normal aspect of Distant signal on double distant signal area is

[A]caution [B]attention [C] stop [D] proceed

**69.** When colour light Distant signal is combined with Gate/LSS, normal aspect of that signal is

[A] stop [B] caution [C] attention [D] proceed

**70.** In rear of the stop signal Distant signal is provided at a distance of

[A] 1200M [B] 1500M [C] 1000M [D] 400M

**71.** Wherever double distant is provided, from the stop signal, distant signal location is

[A] 1000M [B] 1200M [C] 1400M [D]2000M

**72.** Wherever two Distant signals are provided the board that is eliminated is

](A) BSLB (B) signal warning board (C) SLB (D) caution indicator

**73.** At stations provided with Advanced starter and starter, the sequence of taking off signals is

(A) first starter and then home (B) first starter and then advance starter

(C) first advance starter and then starter (D) none of these

**74.** The levers provided at certain cabins which when reversed, lock the levers of all running Semi-Automatic signals and enable the signals to function as Automatic signals.

][A] King levers [B] automatic reverser levers [C] lock bar [D] Signal lever

**75.** When a colour light Distant is combined with LSS/Gate signal, this marker is not required

[A]'A' marker [B]'C' marker [C]'G' marker [D]'P' marker

**76.** The marker Board by which Colour light calling ON signal is identified by

(A)'P' (B)'IB' (C)'G' (D)'C'

**77.** Calling On signal may be provided below any stop signal except

[A] FSS [B] LSS [C] IB signals [D] home

**78.** Calling ON signal in 'ON' position will show

[A] miniature yellow light [B] single yellow light

[C] miniature white light [D] no light

**79.** The light that is displayed when colour light Calling On signal is taken 'OFF'

](A) miniature yellow (B) miniature red (C) green (D) White

**80.** The Aspect of the Calling On signal when taken 'OFF' is

](A) stop (B) caution (C) proceed slow (D) proceed

**81.** Calling ON signal cannot be taken "OFF" during

[A] reception end point failure [B] trailing end point failure

[C] Starter failure [D] home signal failure

**82.** Condition for taking off calling on signal is that the train has been brought to a

[A] stand at the points [B] stand at a distant signal

[C] stand at the stop signal [D] none of these

**83.** The indication of the Calling On signal when taken 'OFF' is

(A) proceed and be prepared to stop at next stop signal

(B) stop and then draw ahead with caution and be prepared to stop short or any obstruction

C) stop dead D)proceed cautiously

**84.** The occasions when Calling ON signal can be used are

A) receiving a train on obstructed line B)when signal above is defective

C) both A & B D) none of the above

**85.** To take "OFF" calling ON signal, the train must come to a stop on

A) Axle counter B) free zone C) calling on zone D) distant signal

**86.** The time required to assume 'OFF' position when calling ON signal is taken "OFF"

A) 60 secs B) 90 secs C) 120 secs D) 240 secs

**87.** The types of shunt signal are

A) disc type B) miniature semaphore C) position type D)all the above

**88.** Shunt signal may be provided below any stop signal except

[A] LSS [B] FSS [C] Starter [D] none of above

**89.** Shunt signal below stop signal, in 'ON' position will show

][A] red light [B] two white lights horizontally[C] no light [D] yellow light

**90.** The Aspect of independent shunt signal at 'ON' is

][A] stop [B] caution [C] attention [D] no light

**91.** The Aspect of the shunt signal when taken 'OFF' is

A) proceed slow B) caution C) attention D)proceed

**92.** The colour lights exhibited in Position light shunt signal in 'OFF' position is.

A) two white lights horizontally B) two white lights diagonally
C) two green lights D) two yellow lights

**93.** Shunt signal detects

]A) Home signal B) LSS C) points over the route D) no points

**94.** The type of shunt signal that shall be provided in colour light area is

][A]miniature semaphore [B]disc type [C] position type [D]none of above

**95.** The authority to pass defective Independent shunt signal or shunt signal below stop signal at "ON". is

]A) T.369(1) B) T.806 C) PLCT D)T.369(3b)+PHS

**96.** The authority for the LP When Shunting Permitted Indictor is defective, is

A) T.369(1) B) T.806 C) PLCT D)T.369(3b)+PHS

**97.** Detailed working instructions about Shunting Permitted Indicator are available in

][A] G&SR [B] Accident Manual [C] SWR [D] WTT

**98.** I. B signal is identified by this marker board

A)'IB" B)'P' C) 'G' D)'A'

**99.** The marker by which Gate signal in Automatic section when gate is closed is identified by

]A)'G' B) Illuminated 'A' C) Both A & B D) none of the above

**100.** When a fixed signal is not in use, it shall be distinguished by

A) two crossed bars B) two parallel barsC) two horizontal bars D) one vertical bar

**101.** Route indicators are treated as

]A)permissive signals B)stop signals C)subsidiary signals D)Duplicate signals

**102.** The type of Route indicators are of

]A) junction B) stencil C) multi lamp D)all the above

**103.** Whenever the miniature light repeater in the colour light signaling territory is found to be defective and aspect is not visible, the corresponding signal shall also be treated as

] [A] defective [B] not defective [C] working without repeater [D] none of these

**104.** The joint inspection conducted before a signal is newly erected or shifted is by signal sighting committee consisting of ,

]A)TI, LI, SI B)TI,TXR,SI C)PWI,LI, SI D)TI,LI, SE(elec)

**105.** When a signal is newly erected or shifted, caution order shall be given for a period of

A) 30 days B)90 days C)60 days D)10 days

**106.** When a signal is newly erected or shifted, in addition to issuing of caution order, it shall be notified in

(A) SOB (B) Station Diary (C) TSR ( D) Sign 'ON' register

**107.** Signal sighting committee will go on footplate inspection once in

A) one month B) two months C) three months D) four months

**108.** The minimum equipment of signals at a class "B" station with M A S are

A) Distant, Home B) Distant, Home, starter C) Warner, home, starter D) Outer, home, starter

**109.** At a class "C" MAS station the minimum equipment of signals are

A) Distant, Home B) Distant, Home, starter

C) Warner, home, starter D) Outer, home, starter

**110.** Shunting limit board/Advanced starter is provided at a single line station where shunting (obstruction) is permitted out side the outermost facing points in the direction of

[A]approaching train[B] departing train [C] the yard [D]towards the station

**111.** At a Class 'B' station, Single line with MAS, the distance from Home signal to outermost facing points shall not be less than

[A] 120 M [B] 180M [C] 300M [D] 400 M

**112.** BSLB is provided at 'B' class station with multiple aspect signals where

]A) outermost points are trailing point B) no points C) either A or BD)none of above

**113.** The distance from Home signal to B S L B shall not be less than

[A] 120 M [B] 180M [C] 300M [D] 400 M

**114.** The marker board by which Gate signal is identified by

A)'IB" B)'P' C) 'G' D)'A'

**115.** Detailed working instructions about outlying siding are incorporated in

A) SWR B) G&SR C) WTT D) Engg. manual

**116.** The marker board for indicating the Outlying siding points are

[A]'A' [B] 'IB' [C] 'S' [D] 'G'

**117.** Home signal lever/switch will be normalized after the passage of

]A) engine B) whole of the train C) first vehicle D) none of these

**118.** Before the arrival of the train, to avoid complaints from road user, taking off the approach signals can be delayed to ensure that gate is closed only for

][A] 20 minutes [B] 10 minutes [C] 15 minutes [D] 30 minutes

**119.** SM shall test the working of the reception signal daily and record results of the tests in

]A) TSR B) C.O. register C) station diary D) PN exchange book

**120.** The speed of a goods train while entering terminal yard is restricted to

][A] 8kmph [B] 10kmph [C] 15kmph [D] 20kmph

**121.** Signals taken OFF for a departing train may be put back to ON

] (A) to avert an accident (B) for crossing of a train

(C) for precedence of a train (D) any of the above

**122.** Authority of receiving a train which has passed home signal at ;ON; without proper authority

[A]T/369 3(b) [B]restart memo [C] PHS [D] all the above

**123.** To put back starter/advanced starter for departing train LP of the train should be advised by a

A) written memo B) C.O. C) T.369 (3b) D) none of above

**124.** In case of Class 'D' stations, 'ENGINE STOP' board provided beyond the point/place on platform where train is required to be stopped at distance of

[A] 10mtrs [B] 15 mtrs [C] 120mtrs [D] 180mtrs

**125.** In case of Class 'D' stations, 'Warning Board' is provided on approach end in rear of the 'D; class station from 'ENGINE STOP' board at distance of

[A] 800mtrs [B]1000 mtrs [C] 1200mtrs [D] 1500mtrs

**126.** In case of Class 'D' stations, 'Warning Board' is painted yellow background with black letter

[A] 'P' [B]'A' [C] 'C' [D] 'H'

**127.** Certificate of competency of Cabinmen/levermen issued after initial/refresher training is

[A] T.25 [B]T.36 [C] T.336 [D] T.338

**128.** The aspect in the normal position of fixed signals except Automatic Signals is

[A] stop [B] caution [C] proceed [D] most restrictive aspect

**129.** Even though departure signals are taken off, LP shall stop at stations where stoppages are scheduled in the

[A] VG [B] CTR [C] WTT [D] SOB

**130.** The points on single line, that must be set against the blocked line, immediately after the arrival of a train at the station

A) rear B) front C) either end D) none of above

**131.** The points on double line, that must be set against the blocked line, immediately after the arrival of a train at the station

A) rear B) front C) yard end D) none of above

**132.** When all the lines at a station are blocked by passenger carrying trains, and still line clear is granted for a train, the points shall be set for line occupied by

A) main line engine is facing B) loop line engine is facing

C) main line SLR is facing D) loop line SLR is facing

**133.** The indications that must be checked by the SM to see that the points are in working condition after the operation of every motor operated point, are

A) normal B) reverse C) either A or B D) none of the above

**134.** On Single Line the Signal over lap shall be reckoned from

A) facing pointsB) trailing points C) facing end points D) Home signal

**135.** On Single line MAS the Signal Over Lap shall not be less than

A) 100m B) 110m C) 120m D) 180m

**136.** The Station Master shall personally ensure nominated line is clear not only upto berthing place but also for an adequate distance beyond it for a stopping train on a line where the provision is not made with

[A] track circuits [B] axle counters [C] either A or B [D] none of these

**137.** IB signals may be provided only on

[A] Single line [B]Double line [C] Either Single/Double line [D] Automatic section

**138.** SM can take 'Off' IB signals only after

[A] Establishig direction of traffic [B]Obtaining Line clear
[C] Either 'A' or 'B' [D] Both 'A' and 'B'

**139.** The signals that are prohibited to be used for shunting purposes is/are

A) outer B) home C) LSS D) All the above

**140.** Slip siding is intended to protect

[A] Outlying siding [B] Block section [C] station section [D] station limits

**141.** Catch siding is intended to protect

[A] Outlying siding [B] Block section[C] station section/station [D] station limits

**142.** The provision of catch siding is compulsory where the falling gradient towards station is steeper than

[A] 1 in 80 [B] 1 in 100 [C] 1 in 260 [D] 1 in 400

**143.** The provision of slip siding is compulsory where the falling gradient towards block section is steeper than

[A] 1 in 80 [B] 1 in 100 [C] 1 in 260 [D] 1 in 400

**144.** Catch and slip sidings shall not be used for

A) stabling B) shunting C) stabling/shunting D) none of above

**145.** Normal setting of catch siding points wherever is provided is for

A) loop line B) catch siding C) main line D) none of these

**146.** Catch/Slip siding points key can be extracted from the block instrument, only when the block instrument position is in

[A] TCF/TGT [B] line closed [C] TOL [D] none of these

**147.** During day/night the Trap indicator wherever provided in open position shall show

A) white target/white light B)no target/green light
C) red target/red light D)knife edge/green light

**148.** During day/night the Point indicator wherever available when point is set for straight(main) line shall show

A)white target/white light B)no target/green light
C)red target/red light D)knife edge/green light

**149.** During day/night the Point Indicator, where ever available when point is set for turnout( loop line) shall show

A)white target/white light B)no target/green light
C)red target/red light D)knife edge/yellow light

**150.** All points shall normally be set for the

[A] loop line [B] turn out [C] straight line [D] any line

**151.** SM shall ensure the notice that has to be issued whenever points/signals/Block Instrument is disconnected by SI/ESM is

[A) reconnection notice B) disconnection notice C) failure memoD)none of these

**152.** Whenever the points/signals/block are disconnected SM shall inform cabin man/CASM/SWM under exchange of

[A] message [B] PN [C] verbal order [D] intimation not necessary

**153.** When the disconnected signal/point is reconnected, SI/ESM shall test jointly with

[A] TI [B] S&T khalasi [C] pointsman [D] SM on duty

**154.** From the time of disconnection to reconnection, the trains shall be admitted by

[A] Hand signals [B] fixed signals [C] piloting [D] none of above

**155.** Whenever signal Inspector is testing the signal, the remark shall be recorded in

[B] [A] TSR [B] Station Diary [C] PN exchange book [D] S & T failure register

**156.** The certificate of competency for Signal maintainer is valid for
[A] Two years [B] Three years [C] Four Years [D] Five years

**157.** The certificate of competency for Signal maintainer is issued by Principal of
[A] ZRTI [B] STTC [C] STC [D] IRICET

**158.** Disconnection/Reconnection notice is given in form No.
[A] T.431 [B] T.726 [C] RS 6 [D] T.351

**159.** On completion of Engineering work, certificate by the Engineering official for safe passage of train shall be given to
[A] SI/ESM [B] SM [C] SCOR [D] TI

**160.** In case of Joint work with engineering officials, SI/ESM shall give reconnection notice only after getting
[A] Certificate from Engg. official [B]information of completion of Engg. work
[C] SCOR instructions [D] Instructions from ASTE/DSTE

**161.** By waving green flag by day and a white light by night up and down vertically as high and as low as possible indicate

A) move slowly B) move towards person signalling C) train parting D) coupling

**162.** Violently waving a white light horizontally across the body of a person indicates

[A]train parting [B] move away from the person showing

[C] proceed [D] stop dead

**163.** A green flag/green light moved slowly up and down indicates

[A) stop dead B) move towards person signalling
[C) move away from person signalling D) proceed

**164.** Detonators are also known as

[A] fog signals [B] flare signals [C] illuminating signal [D]none of these

**165.** VTP is painted alternatively

A) black & yellow B) white & yellow C) black & white D) yellow

**166.** FSP is painted alternatively

A) black & yellow B) white & yellow C) black & white D) yellow and red

**167.** From either side of SM office, the VTP is located at a distance of

A) 150m B) 160m C) 180m D) 400m

**168.** The number of detonators that are given to each fog signalman is

[A] 8 [B] 10 [C] 16 [D] 20

**169.** From outermost signal the FSP is located at a distance of

A) 180m B) 120m C) 400m D) 270m

**170.** Nominated fog signalmen are two from each department

A) engineering and S&T B) Engineering and operating

C) mechanical and operating D) only from engineering

**171.** The register in which fog signalmen's assurance will be taken is

A) TSR B) station detonator C) Station diary D)SWR assurance

**172.** Testing of detonator shall be done by moving an empty wagon hauled by a locomotive at a speed of

A) 11 to 13kmph B) 15 to 20 kmph C) 8 to 11kmph D) 12 to 15 kmph

**173.** No. of detonators which shall be kept in stock at a station is prescribed by

[A] DRM [B] DOM [C] COM [D] DEN

**174.** The knowledge of staff that are required to use detonators shall be tested once in

[A] month [B] two months [C] three months [D] four months

**175.** TI/SM/PWI shall test detonators once in

[A] 3 months [B] 6 months [C] 8 months [D] 12 months

**176.** Normal life of a detonator is

[A] 3 years [B] 5 years [C] 7 years [D] 10 years

**177.** Life of a detonator manufactured during 2010 and afterwards is

[A] 3 years [B] 5 years [C] 7 years [D] 10 years

**178.** The maximum number of extensions after successful testing of the detonator is

[A] one [B] two[C] three [D] any number

**179.** Guard shall in case of fog shall switch on

[A] both LED light of SLR & Flashing Red tail lamp [B] Only LED light of SLR [C] only flashing Red tail lamp [D] Only side lights

**180.** The signals to be used to warn the incoming train of an obstruction at night shall be a

A)flashing amber light B)red flag C)red flashing H/S lamp D) none of these

**181.** The signals to be used to warn the incoming train of an obstruction during day shall be a

A)flashing amber lightB)red flagC)red light of H/S lamp D)red flashing H/S lamp

**182.** Whenever a signal/point/block instrument is defective, SM shall make an entry in

A)S&T failure register B)PN exchange register
C)relay room key register D)crank handle register

**183.** Whenever a signal is detecting a point becomes defective, these points are treated as

A) interlocked B) non interlocked C) working D) none of above

**184.** A blank signal under complete power off situation is to be treated as

A) defective signal B) signal at offC) no signal D) none of above

**185.** Pre-warning about defective reception signal is not required when there is

A) calling on signal B) adv. starterC) Isolation D) none of above

**186.** When home is defective and pre warning is given, the LP may pass such signal on receipt of

[A] PHS at the foot of the defective signal [B] PHS at the first facing points [C] T.369(3b)+PHS [D] PN through SPT

**187.** The condition that the SM shall fulfill before granting line clear when Loco Pilot is pre warned about the defective signal,

A) taking off signal B) granting line clear C) Both A & B D) Either A or B

**188.** Advance authority to pass defective signal is

[A] T.369(3b) [B] T.369(1) [C] T/C.1425 [D] T.409

**189.** When train is received on Calling ON, cancellation in Podanur panel takes

[A] 120 seconds [B] 180 seconds [C] 240 seconds[D] 90 seconds

**190.** The axle counter shall be reset only after ensuring that the monitored portion is

[A ]vacant [B] occupied [C] obstructed [D] none of above

**191.** Whenever axle counters provided for loop line are to be reset , it should be done by station master on duty along with one

A) operating B) S&T C) A or B D) none of above

**192.** Authority to pass defective starter signal (if it is not LSS) is

A) T.369(3b) + PHS B) calling on signal taken off C) A or B D). PLCT

**193.** The authority given to LP when I B distant fails in "OFF" position before dispatching

A) PLCT B) T.369 (3b) C) PLCT + T.369 (3b) D) none of above

**194.** On Double line when LSS is defective Authority to proceed is

[A] T.369 (3b) [B] PLCT [C] T.806+PN [D] T/C.602

**195.** On Single line token less section, when LSS is defective Authority to proceed is

[A] T.369(3b) [B] T/B.602 [C] T.806+PN [D] PLCT

**196.** The authority required by Loco Pilot when passes starter at "ON" partly and stopped before Advanced Starter, apart from ATP

A) memo countersigned by Guard B) T.369 (3b)+PHS

C) Advanced starter off or PLCT D) all the above

**197.** During day when Gate signal is at ON, the LP shall wait for

A)one minute B)two minute C)three minute D)four minute

**198.** When Gate signal is at ON, the LP shall wait one/two minutes by day/night and gateman not available, LP may pass the gate after ensuring it is closed on the hand signals of

A) Gangman B) train crew C)patrolman D)PWI

**199.** During night when Gate signal is at ON, the LP shall wait for

A)one minute B)two minute C)three minute D)four minute

**200.** When Gate signal is at ON, the LP shall wait one/two minutes by day/night and gateman exhibiting hand signals. LP may

A) stop at the gate B) proceed at MPS C) proceed cautiously D) none of above

**201.** When LP passed the Gate signal at ON and gateman is not available, the LP of the first train shall report the matter to the

A)SM of station where train stops B)need not report
C)SM or rear station D) SM of next station

**202.** Gate-cum-distant signal will be located in rear of the gate at a distance of

[A] 90 meters [B] 120 meters [C] 180 meters [D] 350 meters

**203.** If a signal is showing white light in place of a colour light, it is treated as signal is showing

A) most restrictive aspect B) caution aspect C) attention aspect D) stop aspect

**204.** The signal shall be treated as defective, whenever colour light signal is flickering / bobbing and does not assume a steady aspect at least for

[A] 20 sec [B] 30 sec [C] 60 sec [D] 120 sec

**205.** The authority given to the loco pilot at station when I B S is defective

A) PLCT B) T.369 (3b) C) Both A & B D) none of above

**206.** The facility that is provided for I. B signal is

][A] Phone connecting the rear SM [B] Phone connecting the advance SM

[C] Phone connecting the SCOR [D] Phone connecting the TPC

**207.** When I B S is at "ON" immediately the Loco Pilot shall stop and contact

A) SM of advance station B) SCOR C) SM in rear station D) TPC

**208.** When IBS is at "ON" and the telephone is out of order, Loco Pilot shall wait for

A) two minutes B) three minutes C) four minutes D) five minutes

**209.** When IBS is at "ON" and the telephone is out of order, Loco Pilot after waiting for five minutes shall proceed when view is clear/not clear upto next stop signal at a speed of

A) 10/8kmph B) 25/10kmph C)20/10kmph D)15/8kmph

**210.** The button to be operated by rear SM, to reset axle counter of I B S if fails due to improper counting

[A] PB-1 [B] PB-2 [C] PB-3 [D] PB-4

**211.** Wherever I B S is provided, LSS is interlocked with

[A) axle counter, B) Block Instrument C) IBS D) trailing points

**212.** Wherever I B S is provided, I B S is interlocked with

A) axle counter, B) Block Instrument C) LSS D) trailing points

**213.** Which indication will appear to the SM in rear when Loco Pilot passes I B S at "ON"?

[A] K1 [B] K2 [C] K3 [D] K4

**214.** The indication that will appear when Loco Pilot passes LSS in "OFF" position is

A) K1 B) K2 C) K3 D) K4

**215.** When Loco Pilot passes LSS in "OFF" position K2 indication will appear which will become normal by putting back

A) FSS knob/lever B) LSS knob/lever C) Gate key knob/lever D) IBS knob/lever

**216.** The indication that will appear when Loco Pilot passes IBS in "OFF" position is

A) K1 B) K2 C) K3 D) K4

**217.** When Loco Pilot passes IBS in "OFF" position K3 indication will appear which will become normal by putting back

A) FSS knob/leverB) LSS knob/leverC) Gate key knob/lever D) IBS knob/lever

**218.** The indication that appear along with buzzer, whenever IBS or IB distant bulb fused is

[A] K1 [B] K2 [C] K3 [D] K4

**219.** Over the trailed through points, under no circumstances should a train be

[A]move forward [B] backed [C] run with MPS [D] none of these

**220.** The Loco Pilot shall whistle intermittently when his engine explodes detonator and take every possible caution as necessary including

A) increase of speed B) stop the train C) proceed with MPS D) reduction of speed

**221.** After exploding the detonator, if no obstruction found further, the Loco Pilot, can pick up normal speed after proceeding cautiously up to a distance of

[A] 500 meters [B] one KM [C] 1.5 KM [D] 2 KM

**222.** When LP notices a signal warning of an obstruction, except detonator, he shall

[A] proceed cautiously [B] proceed upto next station and report

[C] stop after noticing the obstruction [D]stop immediately

**223.** When the Loco Pilot notices a signal warning of an obstruction and no further details are noticed, shall stop during day/night for

A) one/two minute B) two/three minutes C) 3/4 minutes D) none of these

**224.** When LP notices a signal warning of an obstruction and no further details are noticed, after stopping one/ two by day/night, he shall proceed upto the next block station

A) cautiously B) with MPS C) at 20kmph D)at 30 kmph

**225.** In rear of FSS, the Signal warning board is located at a distance of

[A] 180 meters [B] 400 meters [C] 1000 meters [D] 1400 meters

**226.** The LP shall clearly understand that if no signal indication is available from the Warning board he should control the speed as if the stop signal ahead is

[A] in OFF position [B] may be taken OFF [C] at ON [D] none of above

**227.** The road learning trips that are given to the Loco Pilot/Guard who has not operated on a section for 6 months to 2 years , is

[A]one trip [B] two trips [C] three trips [D] Six trips

**228.** The road learning trips that are given to the Loco Pilot/Guard who has not operated on a section for 3 to 6 months, is

[A]one trip [B] two trips [C] three trips [D] Six trips

**229.** The road learning trips that are given to the Loco Pilot/Guard on Automatic section is

[A]one trip [B] two trips [C] three trips [D] Six trips

**230.** In addition to normal LR trips, additional LR trips for LP/Guard may be given with the approval of

[A]Sr.DOM [B] Sr.DME [C] Sr.DEE [D] Controlling branch officers

**231.** LP/ALP/Guard should record in the register maintained in crew booking point about the lapse of road learning in a section in advance of

[A]one week [B] 10 days [C] 15 days [D] 30 days

**232.** The Loco Pilot and guard will be given three no. of L R trips before they are booked for regular working including one trip between

A) sunset to sunrise B) 06.00hrs to 20.00hrs C) 21.00hrs to 07.00hrs D) 20.00hrs to 06.00hrs

**233.** To record observations of Loco Pilot during his run must be maintained in all lobbies

]A) TSR B) rough journal book C) S&T and track failure register D)CTR

**234.** The rule No. of G&SR for Commissioning of fixed signals is mentioned in

[A] GR &SR 3.22 [B] GR &SR 3.24 [C] GR &SR 3.26 [D] GR &SR 3.28

**235.** The rule No. of G&SR for points affecting movement of trains is mentioned in

[A] GR &SR 3.36 [B] GR &SR 3.38 [C] GR &SR 3.40 [D] GR &SR 3.42

**236.** The rule No. of G&SR for rules for Points and disconnection & reconnection is mentioned in

[A] GR &SR 3.51 [B] GR &SR 3.52 [C] GR &SR 3.53 [D] GR &SR 3.54

**237.** The rule No. of G&SR for placing of detonators in thick, foggy or tempestuous weather impairing visibility is mentioned in

[A] GR &SR 3.59 [B] GR &SR 3.60 [C] GR &SR 3.61 [D] GR &SR 3.62

**238.** The rule No. of G&SR for description of warning signals is mentioned in

[A] GR &SR 3.65 [B] GR &SR 3.66 [C] GR &SR 3.67 [D] GR &SR 3.68

**239.** The rule No. of G&SR for passing IB stop signal at 'On' is mentioned in

[A] GR &SR 3.72 [B] GR &SR 3.73 [C] GR &SR 3.74 [D] GR &SR 3.75

**240.** The rule No. of G&SR for duties of SM in case of approach stop signal is defective is mentioned in

[A] GR &SR 3.68 [B] GR &SR 3.69 [C] GR &SR 3.70 [D] GR &SR 3.72

**241.** The rule No. of G&SR for duties of SM in case of departure stop signal is defective is mentioned in

[A] GR &SR 3.68 [B] GR &SR 3.69 [C] GR &SR 3.70 [D] GR &SR 3.71

**242.** The rule No. of G&SR for duties of SM generally when signal is defective is mentioned in

[A] GR &SR 3.68 [B] GR &SR 3.69 [C] GR &SR 3.70 [D] GR &SR 3.71

**243.** The rule No. of G&SR for duties of engine crew in respect of signals is mentioned in

[A] GR &SR 3.75 [B] GR &SR 3.76 [C] GR &SR 3.77 [D] GR &SR 3.78

**244.** The rule No. of G&SR for reporting of defects in S&T and Engineering by LPs is mentioned in

[A] GR &SR 3.85 [B] GR &SR 3.84 [C] GR &SR 3.83 [D] GR &SR 3.82

**245.** In thick, foggy or tempestuous weather impairing visibility and his engine explodes two detonators within a distance of 10 metres apart, the Loco Pilot will control his train immediately and will follow the aspect of

[A] Distant signal ahead [B] stop signal ahead [C] outermost signal ahead [D] LSS

**246.** During dense fog maximum speed of a train on Automatic block system when it is showing single yellow light shall be restricted to

A) 25kmph B) Restricted speed to stop at next stop signal
C) 60kmph D) 30kmph

**247.** During dense fog maximum speed of a train on Automatic block system when signal showing two yellow lights shall be restricted to

[ ] A) 25kmph B) Restricted speed to stop at next stop signal
C) 60kmph D) 30kmph

**248.** During dense fog maximum speed of a train on Automatic block system when signal showing green light shall be restricted to

[ ] A) 25kmph B) Restricted speed to stop at next stop signal
C) 60kmph D) 30kmph

## CHAPTER IV

**249.** Control office should advise the standard time daily by a general call to the stations at

[A] 08.00 hours [B] 16.00 hours [C] 00.00 hours [D] none of these

**250.** All SMs should correct the time at 1600 hrs and make an entry in the

A) TSR B) S&T failure register C) Attendance register D) PN exchange register

**251.** At Class 'D' stations without telephone connection, clerk in charge shall correct their station clocks daily with the time of

A) Guard of last stopping train for the day B) LP of last stopping train for the day
C) Guard of first stopping train for the day D) LP of first stopping train for the day

**252.** No passenger train shall be dispatched from a station before

A) Time mentioned in 'e-train' app B) Advertised time
C) Time of boarding of last passenger D) SCOR instructions to be followed

**253.** Guard shall set his watch by the station clock or the clock at the authorized place of reporting for duty and communicate the time to the LP and make entry in the

A) memo book B) CTR C) TSR D) defective register

**254.** The time of reporting before the scheduled departure for LPs, Guards and ALPs is prescribed by

A) Sr.DME B) Sr.DOM C) DRM D) ADRM

**255.** ODC shall be allowed to be attached by a train for transport only with prior sanction of

[A] CRS [B] RAILWAY BOARD [C] TXR [D] COM

**256.** Maximum Permissible speed for each section of the railway is given by

A) PCE B) PCOM C) DRM of concerned division D) CRS

**257.** Unless permitted under approved special instructions the maximum speed permitted on turn out/cross over is

[A] Depends on layout [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

**258.** Even under normal circumstances subject to observance of permanent / temporary speed restrictions in force all Passenger carrying trains should run at

A) booked speed (B) maximum permissible speed C) 110kmph D) 100kmph

**259.** Loco Pilot shall not make up between any two stations more time than is allowed in

A) PTT B) RTT C) Sheet time table D) WTT

**260.** Whenever Officers and Inspectors & Guards shall check speed of trains and if it is found that speed has been exceeded, they should inform LP at next stop and submit a report to

[A] DOM [B] DME/DEE [C] Either 'A' or 'B' [D] Both 'A' & 'B'

**261.** Normally the speed of trains over Non-Interlocked points, turnouts and crossover shall not exceed

[A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

**262.** In case speedometer is defective at crew changing station it should be further worked

[A] 15kmph [B] 10 KMPH [C] 10% reduction of speed [D] with relief or repair

**263.** In case speedometer is defective between crew changing stations it should be further worked

[A] 15kmph [B] 10 KMPH
[C] 10% reduction of speed upto next crew changing station [D] with relief or repair

**264.** The speed of a passenger/goods train on 1 in 8 ½ turnout (straight switch) is restricted to

A) 25/10kmph B) 5/10kmph C) 20/10kmph D) 10/15kmph

**265.** The speed of a passenger/goods train on 1 in 8 ½ turnout (curved switch of 52/60 km rails) on PSC sleepers is restricted to

[A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

**266.** Maximum speed of a train on 1 in 8 ½ symmetrical split curved thick web switch of 52/60 km rails on PSC sleepers is restricted to

[A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

**267.** Isolation is necessary where the trains are to run through a station at a speed exceeding

[A] 50 kmph [B] 110 KMPH [C] 75 KMPH [D] 15 KMPH

**268.** Rule pertaining to Engine Pushing is mentioned in [A] GR&SR 4.08 [B] GR&SR 4.10 [C] GR&SR 4.12 [D] GR&SR 4.14

**269.** 'Patrol'or 'Search-light'special with one or more vehicles in front of the engine may be permitted to run at a maximum speed of

[A] 8 kmph [B] 15kmph [C] 25kmph [D] 40kmph

**270.** Engine pushing is not permitted with out the prior permission of

A) SM of advance station B) SM of rear station

C) SM of the notice station D)none of above

**271.** When engine is pushing a train and Guard is travelling in brake van, which is leading, the speed shall not exceed

[A) 25kmph B) 10kmph C) 8kmph D) walking speed

**272.** When engine is pushing a train and Guard is not travelling in leading vehicle, the speed shall not exceed

[A) 25kmph B) 10kmph C) 8kmph D) walking speed

**273.** When the train is working without BV, while pushing back the LP has to observe the hand signals of guard and proceed with

[A) 25kmph B) 10kmph C) 8kmph D) walking speed

**274.** When engine is pushing a train without guard the duties of guard is devolved on

[A] Pointsman [B] ALP [C] station master [D] none of these

**275.** In case of train is pushed back, it can be received on double line by

[A] Home signal [B] T.369(3b) [C] Pilot out memo [D] Pilot in memo

**276.** In case of train is pushed back, it can be received on Single line by

[A] Home signal [B] PLCT [C] Pilot out memo [D] Pilot in memo

**277.** The colour of marker lights on both sides of engine exclusively deployed for shunting purpose shall be

[A] white [B] red [C] amber [D] red and yellow

**278.** When head light is defective after putting marker lights 'on' train can go with a restricted speed of

A)40kmph B)severest speed of the section C)A or B which ever is less D)none of above

**279.** LP shall ensure head light produces illumination to see ahead clearly for a distance of

[A] 120 mtrs [B] 180 mtrs [C] 200 mtrs [D] 250 mtrs

**280.** Last vehicle indicator during night shall be

[A] L.V board of approved design [B] retro reflective L.V board

[C] red flashing light [D] red flag

**281.** Side lights shall show towards engine in normal position

A) red B) white C) green D) yellow

**282.** Side lights shall show towards rear in normal position

A) red B) white C) green D) yellow

**283.** At night, when passenger carrying train waiting at a station for precedence, Guard shall change the side light adjacent to the line on which the following train is to be admitted, to show light towards rear is

A) red B) white C) green D) yellow

**284.** At night, when passenger carrying train waiting at a station for precedence, Guard shall change the side light adjacent to the line on which the following train is to be admitted, to show light towards engine is

A) red B) white C) green D) yellow

**285.** The trains for which Side lights may be dispensed with is

A) EMU trains B) Goods trains C) Express trains D) Both A & B

**286.** What shall be fixed behind an assisting engine when it is attached in rear of a train?

A) tail board B) Tail lamp C) red marker lights D) tail board/tail lamp

**287.** It will be the duty of the Guard to ensure the last vehicle only in rear is affixed with

A) Tail lamp B) tail board C) red flag D) tail board/tail lamp

**288.** In rear Light engines or coupled engines shall have

A) tail board B) Tail lamp C) red marker lights D) Both A or B

**289.** The bell signal the SM has to give in rear when he observes that a train has passed without tail lamp/tail board where BPAC is not provided is

A) Six pause one B) Six pause two C) Six pause three D) Six pause four

**290.** The bell signal the SM has to give in advance when he observes that a train has passed without tail lamp/tail board where BPAC is not provided is

A) Six pause one B) Six pause two C) Six pause three D) Six pause four

**291.** When a Station Master observes that a train has passed without tail lamp/tail board where BPAC is not provided, shall stop the trains proceeding on adjacent line and issue

A) PLCT B) T.369 (3b) C) caution order D) verbal orders

**292.** In case of obstruction on track, during day Guard must exhibit

A) red flag B) flashing red light C) steady red light D) amber light

**293.** In case of obstruction on track, during night Guard to exhibit hand signal lamp showing

A) red flag B) flashing red light C) steady red light D) amber light

**294.** Whenever alarm chain is pulled the Guard shall record the fact in the

A) TSR B) Station diary C) memo book D) CTR

**295.** The number of washers to be provided in personnel equipment of Guard/LP is

[A] 5/3 [B] 3/5 [C[ 3/3 [D] 5/5

**296.** Whenever alarm chain is pulled, Guard shall record the fact in CTR and submit a special report to

A) DOM B) DME C) DRM D) DSC

**297.** Guard shall report to the Station Master of the next important station, any stoppage or other irregularities in train working and record the details in

A) TSR B) Station diary C) memo book D) CTR

**298.** Guard shall report to SM of the next important station, any stoppage or other irregularities in train working record the details in CTR and send a special report to the

A) DOM B) DME C) DRM D) DSC

**299.** Rule pertaining to LP, ALP and Guards equipment is mentioned in

[A] GR&SR 4.17 [B] GR&SR 4.18 [C] GR&SR 4.19 [D] GR&SR 4.20

**300.** ALPs shall posses as personal equipment along with a hand bag while working a train

[A] Rough journal [B] Tail lamp/board [C] WTT [D] Both 'A'& ' B'

**301.** LPs shall posses as personal equipment while working a Passenger train [A] Rough journal [B] Tail lamp/board [C] First aid box [D] Both 'B'& 'C

**302.** Guards shall posses as personal equipment while working a Passenger train

[A] 6 Washers [B] Hammer cum screw driver [C] First aid box [D] Either 'A'or ' B'

**303.** The full form of OTL of BV equipment is

A) over time leave B) one time lock C) one time leak D )one time lever

**304.** Dy.SS/TNC of the originating station shall record the intactness and availability of the BV equipment in the register and obtain acknowledgement of

[A] Guard [B] S.E (C&W) [C] LP when without guard [D] all the above

**305.** Fire-Extinguishers: Replacement shall be done once in

[A] 3 months [B] 6 months [C] 12 months [D] 3 years

**306.** The 2/4 wire telephone will be tested by SE/JE-Tele. once in

[A] 3 months [B] 6 months [C] 12 months [D] 3 years

**307.** .Contents of the EL Box shall be tested by the SE / JE-TL. once in

[A] 3 months [B] 6 months [C] 12 months [D] 3 years

**308.** At destination station, Guard shall obtain acknowledgement about the intactness of OTL and seal of Dy.SS or SE / JE-C&W in the

[A] Rough journal or VG [B] CTR [C] LTM [D] RS-5

**309.** BV equipment in working condition shall be loaded in MEMU/EMU shed in

[A] Space available in Driving power car [B] Guard lineBox
[C] low tension compartment in each motor coach [D] LP line box

**310.** BV equipment in working condition shall be loaded in DEMU/DHMU shed in

[A] Space available in Driving power car [B] Guard line Box
[C] low tension compartment in each motor coach [D] LP line box

**311.** In case shunters are required to work any train outside station limits, special instructions to be obtained from

[A] ADRM [B] DRM [C] Sr.DME/DEE [D] Sr.DOM

**312.** In case of emergency the Assistant Loco Pilot can be authorized to drive the train at a restricted speed up to the nearest point where he can be relieved, not exceeding

A) 30kmph B) 40kmph C) 60kmph D) MPS

**313.** When leading compartment of an electric engine is defective and the train is driven from trailing compartment by Assistant LP, the speed shall not exceed

[A] 8 kmph [B] 40 KMPH [C] 15 KMPH [D] 30 KMPH

**314.** When leading compartment of an electric loco is defective and the train is driven from trailing compartment by loco pilot the speed shall not exceed

[A] normal speed [B] 40 KMPH [C] 15 KMPH [D] 30 KMPH

**QS. BANK FOR *MAINTENANCE SUPERVISOS* OF ELECTRICAL/TRS/HWH**

Expand the following

1) RITES

2) IRIEEN

3) COFMOW

4) RDSO

5) CORE

6) FOIS

7) COIS

8) IVRS

9) CRIS

10) IRISET

11. Electrolyte used in cell is _____

a) $H_2SO_4$ b) HCL

c) Diluted $H_2$ $SO_4$ d) $H_2o$

12 If two single passes applies at a time, the route will be

a) same b) different

c) not permitted d) a or b

13 In twin Beam headlight the rating of bulb is _____

a) 24V, 70/75W b) 24V, 90/100 W

c) 110V, 70/75 W d) 110V, 90/100 W

14.Official language day is

a) $16^{tn}$ September b) $15^{tn}$ September

c) $13^{th}$ September d) $14^{th}$ September

15 Averted collision comes under _____ classification of accident.

a) Unusual incidents b) Indicative accidents

c) Train accidents d) Equipment failure

16. Number of days can be granted as quarantine leave.

a) 15 b) 20 c) 25 d) this leave is not existing

17. Loss of one thumb will comes under _____ % of disablement.

a) 10% b) 30% c) 50 % d) 70 %

18. S-1313 form used for

a) stocked item b) Non-stocked item

c) local purchase d) short tender

19. In the event of engine Horns failure, on clearing the block section cautiously, if the driver is unable to repair, then he shall

A: Work onwards on same condition B: Ask for relief engine

C: Ask PCO number D: None of the above

20. If any fault exists Aux.power circuit of microprocessor loco, that will be indicated through _____

21. RGEB2 connected on _____ pipe line

22. Beyond _____ years age son not eligible for privilege pass.

23. Number of post retirement passes for group-'C' 33 years service completed retired employee is _____

24. _____ is suspension revoked standard form.

25. A retired Railway employee shall not have morethan _____ cases to act as defence helper.

26. The workmen compensation act in force with effect from _____

27. Expand the PNM _____

28. Maternity leave will be sanctioned for ____ days for _____ employees. (T)

29. ____ days shall be admissible for leave encashment. (T)

30. A Railway employee after retirement may permit ____ days to retain the Railway quarters. (T)

31. Expand LHAP_____ (T)

32.After ordering within _____ minutes the ART should leave.

33.The running staff _____national holidays may be availed in a calendar year (T)

34. The abbreviation of RDSO _____ (T)

35. In ABCB loco, _____ coil is used for closing the DJ (T)

36.In WAG7 loco, VEULs energisation and time lag of last CP is maintained by _____

37. Improper working of ARNO will be known by _____ tripping failure

38. If C105 not closed, try by changing ____ switch to '3' position

39. To avoid wheel skidding, ____ to be pressed, while applying A9

40.If L1 or L6 not closed, ____ traction failure will be experienced

41. Setting of QLM relay in WAG7 loco is…… amps against a power circuit current of … (T)

42. One end of QOA relay is connected to…… and the other end to…. (T)

43. Power rating of WAG7 main transformer is ….. and for WAG5 is …..

44. DJ will close, when QPDJ pressure is at ….. Kg/cm2 and will trip when it comes to (T) …. Kg. /cm2.

45. Which relay ensures that DJ is closed only on no load? (T)

46. The wheel diameter on new …. Mm and permitted up to …… mm (T)

47. Permissible root wear is ….. mm and the flange wear is ….. mm. (T

48. Setting of QD relay in WAG7 loco is … A

49. Notch by notch progression is ensured by …. Relay (T)

50. SMGR control circuit is protected from earth fault by ….. control fuse and the fuse rating is …..

51. ……. Schedule is carried out on electric locomotive at the nominated workshops. (T)

52. Rating of each battery in locomotive is … and the total voltage is …. V

53. LSDJ flickering is the symptom of ……

54. Q-30 relay is termed as…. and it will cause tripping of DJ through ……

55. Continuous current rating of TAO659 TM is ……amps and 10 min. rating is ……

56. Continuous current rating of Hitachi TM is ……amps and 10 min. rating is ……

57. Brake application through A-9, BC pressure goes up to ……kg/cm2 in ……seconds.

58. Permissible piston stroke on BC cylinders during brake application is …… (T)

59. Type of cut out cock used in bogie brake isolation is ……

60. Q20 is termed as……relay and its setting is ……V (T)

61. Auto regression will take place when DJ is tripped on notches, through ……relay

62. QCVAR connected across…… & …… terminals

63. Relay QCVAR picks up at ……Volts to open ……contractor

64. Setting of P2 pressure switch in AFL circuit is ……& …… kg/cm2

65. During progression & regression …… will close on all ½ notches and …… will come into circuit.

66. Tap changer taps are making & braking on no load is ensured by ……

67. Transition time of GR contracts from one tap to another tap is ……

68. If GR stuck up in ½ notch due to any reason for more than …… sec. then ……

69. Expand the abbreviation ESMON…..……

70 Medha make ESMON module will have a short term memory of ……hours and a long term memory of ……

71. AAL make ESMON module is termed as …… and its short term memory is

72. Use of Rheostatic braking will minimize …… on brake gear.

73. Change over of working etween braking traction takes place by ……

74. On load operation of reversors & CTFs are avoided by …… relay

75. Relay QE monitors the ……current and QF relay monitors the……current.

76. Time delay in closing contractors C107, C105 & C106 is ……sec.

77. C108 Contactor controls --------- Motor

78. Buffer height limits--------- (T)

79. Rail guard height is ----- (T)

80. In twin Beam headlight the rating of bulb is _____ (T)

81. In a twin beam Head light, what is the voltage of bulb in “dimmer” Operation.

82. What is the advantage of twin beam headlight system

83 At the time of wheel slip, the object of sanders is to

84. Specific gravity of electrolyte is measured using:

85. DC series motor is used for traction purpose because

86. Battery negative is connected to loco body through

87 Hitachi Traction motor is a _ pole ____ motor (T)

88. Max.starting torque offered by WAG7 loco is……

89. Purpose of inter pole in the traction motor.

90 RHOBA resistance is _____ ohms

91. In WAP4 loco the standard setting of RGEB 2 cut in/cut out _____ (T)

92 . In WAP4 loco the Duplex check valve is set at _____

93. Capacity of battery provided in electric loco is_____amph (T)

94. Bibby Coupling is provided to couple _____

95. The class of insulation used in Hitachi Traction Motor is _____

96. The setting value of QD relays ____ DC amps pick up ___ DC amps drop out (T)

97. What is the Gear ratio of a wheel set in WAP4 _____ (T)

98. What is the diameter of an Axle _____?

99. What is the height of the buffer _____? (T)

100. What is the height of the rail guard_____? (T)

101 Periodicity of POH schedule for coaching locos__ (T)

102 Periodicity of IOH schedule for coaching locos_____ (T)

103 Periodicity of AOH schedule for coaching locos_____ (T)

104 Periodicity of IC schedule for coaching locos_____ (T)

105 Periodicity of IB schedule for coaching locos_____

106 Transformer breather used for_____ (T)

107 The HP of MVSL is _____

108 The maximum rpm of a Hitachi Traction Motor is

109 Main transformer is having _____number of taps totally.

110 Flickering of LSDJ is called _____ tripping failure.

111. Time required to travel for GR from 0-32 notches is _____

112 MPS can be operated from _____ notch for field weakening

113. Q46 energises when _____ (T)

114. Feed pipe is painted with _____ colour. (T)

115. Purpose of RPS is _____

116 Whenever QCVAR becomes defective, starting phase to ARNO to be cut off by de-energizing _____

117. If C-105 is not closed, _____ failure will be experienced

118. After closing DJ, if C-118 coil not de-energised, it leads to _____

119. Permanent de-energisation of Q52 leads to _____ traction failure

120. When DJ is opened on notches auto regression takes place by _____ relay.

121. If MVMT-1 is defective, _____tripping failure will be experienced

122. If MVSI-1 is defective, _____ tripping failure will be experienced

123. Melting of CCPT causes _____ tripping failure.

124. When ZPV on '3', ____ contactor will isolate & ____ PV will isolate

125. Auto-regression on 1$^{st}$ notch with LSP due to _____

126. Earth fault in SL 1 causes _____

127. Direct auxiliaries are provided to protect ARNO from_____

128. OHE of AC Traction is fed by _____

129. Volt meter is connected in _____ to the circuit

130. Resistance is _____ proportional to cross sectional area of the conductor. (T)

131. In electric traction loco, Traction motors are _____ type

132. Rate of flow of current per sec. in the circuit is called _____

133. Electrolyte used in cells of electric loco battery is _____ (T)

134. DC Motor working principle _____

135. When Q44 is wedged, _____ to be avoided

136. Earth fault in MVSL-1 causes tripping of DJ through_____ relay.

137. In modified panto circuit, when DJ locked mechanically, then Pantograph ___

138. Pantograph is mounted on _____ number of base insulators

139. Single bottle vertical type VCB control circuit will have _____ number of branches

140. In VCB loco, if DJ trips just before releasing BLRDJ, conclude ____I/L is defective

141. For Twin pipe air brake system _____ & _____ air hoses to be coupled.

142. TFWA feeds _____ Volts of supply to ARNO

143. ET-1 and ET-2 are to protect against _____ (T)

144. When Q20 is energised, _____ lamp will glow.

145. QOP is provided in _____ circuit (T)

146. RF resistances are cooled by _____

147. To test the condition of a fuse, _____ is provided

148. LSB controlling relay is _____

149. If CHBA fails _____ lamp will glow (T)

150. If Q51 energises, _____ takes place

151. When HCP is kept on '2' position, _____ coil gets energised.

152. QWC relay remains energised as long as ____ is pressed when GR is on '0' or 1st notch then, automatically de nergises after 10th notch in WAG7 locomotive.

153. When PSA is pressed from Cab-1, VESA No._____ & _____will energise.

154. While starting loaded train, _____& _____ switches to be pressed to avoid QD action

155. If _____relay de-energies, loco brakes will not release by pressing PVEF.

156. Earth fault in Q119 coil causes _____

157. In WAP4 loco, to isolate TM 4 ____ switch to be kept on ____ position

158. In DC-DC converter, twin beam headlight provided with ____ lamps/ bulbs

159. Defective QCVAR causes _____ tripping failure.

160. In Static converter loco,3 E.M. contactor for MVRF is _____

161. If any un-loader valve is stuck up and discharging air, trouble can over come by _____

162. If rear cab BL is not locked properly, it leads to _____

163. If QPH is defective, work the train by keeping _____ on _____position and duly follow necessary precautions

164. Earth fault in CHBA causes _____ relay to energise (T)

165. In microprocessor loco, fault, if any, will be indicated through _____

166. When A9 is applied to emergency, the pressure admitted to loco brake cylinder is __

167. In Static converter loco, _____ should not be wedged under any circumstances

168. For quick recharging of BP pressure, _____ switch to be pressed

169. In Microprocessor loco, during ICDJ _____ fuses to be checked

170. Puncture of diode in RSI block causes _____ lamp to glow

171. Total number of roof bars including hand operated Roof Bars in WAP-4 loco is_____

172. RGR is connected between _____

173. Airflow measuring valve is connected between _____ & _____

174. If Q30 N/O I/L is defective _____ relay can be wedged to work the train further

175. If LSCHBA glows on run, _____ & ____ to be checked.

176. Q44 is called as _____ relay (T)

177. Notch by notch progression or regression is done by ____ relay

178. While wedging AC 3 contactor, ensure _____

179. Defective Q 50 causes _____ traction failure

180. Defective Q30 causes _____

181. Earth fault in QCVAR causes_____

182. While closing DJ, earth fault in TFWA causes _____

183. QD-2 is connected between ____ & ____ Traction Motors in WAP-4 loco (T)

184. QD actions are _____

185. Earth fault in C-118 coil causes_____

186. Pantograph is not raising due to _____

187. Location of Pantograph lowering spring is _____

188. If pantograph raising spring is broken and fallen on loco roof, it causes _____

189. Normally, starting phase to ARNO cut off automatically by _____

190. Cut in the TFWA winding causes _____

191. The electrical braking is effected by_____ contactors

192. RSI-2 block supplies current to _____ in WAP-4 loco

193. ICDJ trouble will be experienced due to _____ fuses melting

194. Appropriate air pressure in the system is maintained by ____

195. A34 terminal cut causes _____ traction failure.

196. Loco earthing switch is _____

197. Slipped pinion causes ____

198. Purpose of A-1 Differential valve is_____

199. Breaking of roof insulator or base insulator leads to _____

200. WAP4 Loco will have _____ type of bogie (T)

201. RF resistances are provided _____

202. On releasing SA9, pressure in the brake Cylinders will escape through _

203. The purpose of QTD101 relay is _____in static converter locomotive

204. Additional fuse provided in loco is _____

205. RSI-2 block supplies Current to _____ in WAP4 loco

206. Minimum pressure required for energising of any electro valve in loco is __ kg/cm²

207. Working pressure of SMGR ____ kg/cm²

208. GR Full notch Protection relay is _____

209. MCB TFS is related for the function of _____

210. Normal Height of contact wire from Rail level is _____

211. On run if CCBA fuse melts, ____

212. Length of Section Insulator type Neutral Section is _____ Meters

213. QCVAR is provided for the protection of _____ (T)

214. In dead loco, to avoid wheel skidding _____ to be isolated

215. If time taken to pass One km is 80 seconds, the speed of the train is____ Kmph. (T)

216. Standard span length between two Traction masts on straight line _____ Meters

217. QLM is available in _____ circuit (T)

218. DCP type fire extinguisher can used for _____

219. Fire extinguisher used on Electric traction loco is _____

220. Earth faults in SL-2 causes tripping of DJ through _____

221. WAP-4 loco will have _____ number of Main reservoirs

222. R-1 COC location in WAP-4 loco is _____

223. Total number of brake cylinders provided in WAP-4 loco is ____ (T)

224. Type of bogie provided in WAM-4 loco is _____ (T)

225. Horsepower of WAP-4 loco is _____

226. Improper working of ARNO will be known by _____ tripping failure

227. To avoid wheel skidding, ____ to be pressed, while applying A9

228. If L1 or L6 not closed, ____ traction failure will be experienced

229. Earth fault in auxiliary control circuits causes, melting of _____ fuse

230. Before conducting LT test, ensure _____

231. If SL2 had earth fault, DJ will trip through ____ relay

232. Modified Pantograph pan will have, _____ in place of wearing strips (T)

233. If C145 coil is having earth fault _____ fuse will melt.

234. Modified RGCP setting is _____ $Kg/cm^2$ (T)

235. Defective Air Dryer leads to _____

236. Unless GR is in _____ notch, DJ cannot be closed (T)

237. In WAG 5 loco, If all line contactors are not closed, check _____COC

238. If C107 contactor not closed, _____ tripping failure will be experienced

239. QD1 energises at _____ amps in modified locos.

240. Earth fault in MVMT1 causes tripping of DJ through ____ relay (T)

241. In WAM4P loco, ____ No. of motors will start along with ARNO

242. Nomenclature of MU2B is _____

243. Minimum Brake pipe pressure should be _____ $Kg/cm^2$ in locomotive and ____ $Kg/cm^2$ in brake van of a train having 58 vehicles

244. Minimum FP pressure should be ___ $Kg/cm^2$ in locomotive and ____ $Kg/cm^2$ in SLR of a 10 vehicles coaching train (T)

245. Q20 actions are _____ (T)

246. P1 is provided on _____ pipe line (T)

247. If time taken 40 seconds to pass one KM, the speed is _____KMPH. (T)

248. On modified locos, TM meters connections in cab1are____ & in cab2are____

249. Earth fault in ARNO capacitor bank causes tripping of DJ through _____ relay.

250. In modified locos, ARNO is replaced with_____

251.On modified WAP4 loco, RF resistances are cooled by ____

252. The length of PTFE neutral section is _____ Meters

253. Though MVRH is working, if QVRH is not energised, it leads to ____

254. Pressure setting of CP individual SS is _____ $kg/cm^2$

255. GD80E filter is connected in between ____ and ____

256. Signaling relay for LSGR is _____

257. Capacity of CCA fuse is _____ Amps.

258.Tap changer control circuit is controlled by _____fuse

259.Output supply of Static converter is _____

260.When BP drops and A9 is in release ____ __starts functioning.

261.Static converter input supply is _____ volt & out put supply is _____Volts

262. a7 & a8 Bushings are belongs to _____ Secondary Winding

263.In WAP4, center pivot will carry ____% and Bolster will carry ____% of load.

264.If QVMT2 is not energised, _____ tripping failure will be experienced (T)

265.Capacity of RGR is _____ **Ω**

266.Purpose of pantograph pan tilting modification is _____

267.Fault memory capacity of Medha make Microprocessor is _____

268.Purpose of Additional CCBA is _____

269. Three phase loco works on the principle of …… (T)

**a.** VVVF **b.** VFVF

**c.** VVVV **d.** None of the above

**270.** Three phase loco is provided with …… number of roof bars.

**a.** 2 **b.** 3

**c.** 4 **d.** 3+3

**271.** SS 06 belongs to …… sub system.

**a.** Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

**c.** Auxiliary converter No. 3 **d.** Traction converter No. 1

**272** To isolate panto No. 1 keep panto selector switch in ……. position.

**a.** Auto **b.** I

**c.** II **d.** I & II

**273** To put on flasher light …… to be operated.

**a.** AFL **b.** BPFL

**c.** ZFL **d.** Auto brake

**274. SS 03 belongs to ……**

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**275** Three phase scavenging blower filters dust from ……

**a.** Oil cooling blower **b.** Bogie blower

**c.** Machine room blower **d.** Oil cooling blower & Bogie blower

**276** SS 01 belongs to …… sub system.

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**277.** For charging of BP pressure …… COC to be kept open.

**a.** A 8 COC **b.** 70 COC

**c.** 74 COC **d.** 47 COC

**278.** In train engine, if ZBZN is switched ON, …… happens.

**a.** BP pressure drops to 'O' **b.** FP pressure drops to 'O'

**c.** BC pressure raises to 3.5 $kg/cm^2$ **d.** None of the above

**279.** SS 02 belongs to …… sub system.

**a.** Traction bogie 1 **b.** Traction bogie 2

**c.** Main power **d.** Harmonic filter

**280.** Location of PBBUS in knorr brake loco is ……

**a.** Pneumatic panel **b.** Auxiliary manifold

**c.** Air brake manifold **d.** Below direct brake handle

**281.** Three phase loco is equipped with …… No. of three Ø auxiliary motors.

**a.** 16 **b.** 22

**c.** 12 **d.** 13

**282.** Procedure for quick charging of BP pressure in three Ø loco is ……

**a.** Press BPVG **b.** Keep A9 in release position

**c.** Press PVEF **d.** Press 'Emergency stop' switch

**283.** In knorr brake loco pneumatic panel have …… number of portions.

**a.** 1 **b.** 2

**c.** 3 **d.** 4

**284.** Machine room blowers & their scavenging blowers works in …… Mode(s).

**a.** Driving mode only **b.** Cooling mode only

**c.** Off **d.** Driving mode & Cooling mode

**285.** Totally, three phase loco have …… number of additional COCs.

**a.** 4 **b.** 8

**c.** 16 **d.** 2

**286.** To isolate Auxiliary converter No. 2, open MCB No. ……..… located in SB 2.

**a.** 127.22/1 **b.** 127.22/2

**c.** 127.22/3 **d.** 127.2

**287.** SS 05 belongs to …… sub system.

**a.** Harmonic filter **b.** Hotel load

**c.** Battery **d.** Batteries

**288.** When parking brakes are applied BP pressure drops up to …… $kg/cm^2$ in knorr brake loco.

**a.** 3 $kg/cm^2$ **b.** 3.8 $kg/cm^2$

**c.** 3.5 $kg/cm^2$ **d.** 2 to 3 $kg/cm^2$

**289** Auto brake valve have …… number of positions in knorr brake loco.

**a.** 5 **b.** 6

**c.** 2 **d.** 4

290. WAP 7 loco is fitted with …… type of traction motors.

**a.** 3 Ø Asynchronous motor **b.** TAO 659

**c.** Hitachi **d.** Hitachi or TAO 659

**291.** WAG 9/ WAP 7 have …….. numberof(T) (T)rrr of br of brake blocks.

**a.** 12 (T) **b.** 24

**c.** 48 **d.** 64

**292.** Continuous glowing of LSFI indicates ……

**a.** Priority 1 fault **b.** One of the sub system is isolated

**c.** Priority 2 fault **d.** Priority 1 fault or Priorit

**293.** To isolate Auxiliary converter No. 3 open MCB No. …… located in SB 2. **( )**

**a.** 127.22/1 **b.** 127.22/2

**c.** 127.22/3 **d.** 127.3

**294.** Location of BPFL is …… **( )**

**a.** FLCU **b.** Panel A

**c.** Panel B **d.** Panel C

**295.** During self hold mode, CE will remain in ON for …….. minutes. **( )**

**a.** 15 **b.** 10 **c.** 20 **d.** Will not switch

**296.** To move 3 Ø loco as live or dead ensure …… brakes are released. (T

**a.** Parking brakes **b.** Direct brakes

**c.** Parking and Direct brakes **d.** None of the above

**297.** When parking brakes are applied parking brake pressure gauge reads …….

**a.** 0 $Kg/cm^2$ **b.** 4 $Kg/cm^2$

**c.** 3.5 $Kg/cm^2$ **d.** 6 $Kg/cm^2$

**298.** Location of Emergency stop push button in three Ø loco is ……

**a.** Panel A **b.** Panel B

**c.** Panel C **d.** Panel D

**299.** Minimum voltage relay in three Ø loco is ……..

**a.** 78 in SB 1 **b.** 78 in SB 2

**c.** 86 in SB 2 **d.** 86 in SB 1

**300.** WAP 7 have …… number of dampers in primary suspension.

**a.** 8 **b.** 12

**c.** 16 **d.** 20

**301.** Specialty of knorr brake loco is …….

**a.** There are no BE in loco **b.** Though BE failed can work the train

**c.** BE will not fail **d.** None of the above

**302.** MPS of WAP 7 loco is ……

**a.** 100 Kmph. **b.** 120 Kmph.

**c.** 130 Kmph. **d.** 160 Kmph.

**303.** WAG 9/WAP 7 have …….. number of dampers.

**a.** 16 Dampers. **b.** 20 Dampers.

**c.** 40 Dampers. **d.** 10 Dampers.

**304.** Three phase loco is provided with …… number of auxiliary converter(s). (T)

**a.** 1 **b.** 2

**c.** 3 **d.** 4

**305.** In modified WAP 7 loco, …….. wheels are provided with parking brakes.

**a.** 2, 6, 7 & 11 **b.** 2 & 11

**c.** 1, 4, 5 & 8 **d.** 6 & 7

**306.** Three Ø loco have …….. No. of 3 phase auxiliary motors in under frame. (T)

**a.** 2 **b.** 4 **c.** 12 **d.** 8

**307.** Location of MCP 1 is ……

**a.** In machine room No. 1 **b.** In machine room No. 2

**c.** Below machine room No. 2 **d.** Below machine room No. 1

**308.** Oil cooling blower cools …… (T)

**a.** TFP oil **b.** SR oil

**c.** TFP oil & SR oil **d.** Traction motors

**309.** Traction motors works with the principle of …… (T)

**a.** VVVF **b.** VFVF

**c.** VVVV **d.** None of the above

**310.** For application of parking brakes speed should be ……..….

**a.** Below 5 Kmph **b.** Above 5 Kmph

**c.** Below 1.5 Kmph **d.** Zero Kmph

**311.** SS 16 belongs to …… sub system.

**a.** Cab 2 **b.** Fire detection

**c.** Memotel (Speedometer) **d.** Processor FLG1

**312.** Normal position of panto selector switch is ……

**a.** Norm **b.** I

**c.** II **d.** Auto

**313.** Location of FDU is ……

**a.** SB 1 **b.** SB 2

**c.** HB 2 **d.** Panel ‘C’

**314.** Battery voltage in three phase loco should be …… (T)

**a.** Above 85 Volts **b.** Above 90 Volts

**c.** Above 92 Volts **d.** Above 110 Volts

**315** Three phase loco is equipped with …… number of battery boxes. (T)

**a.** 2 **b.** 4

**c.** 6 **d.** 32

**316.** Horse power of WAP 7 is ……

**a.** 5440 HP **b.** 5000 HP

**c.** 8000 HP **d.** 6120 HP

**317.** Three Ø loco is equipped with …….. number of single Ø auxiliary motors. (T

**a.** 12 **b.** 4

**c.** 8 **d.** 13

**318.** For CHBA, MCB No. …… is input and located in ……

**a.** 100 & 110 **b.** 110 & 100

**c.** 112.1 & 110 **d.** 112 & 112.1

**319.** Over current relay in three Ø loco is ……

**a.** 86 **b.** 70

**c.** 78 **d.** 74

**320.** If TFP oil temperature increased to ….$^0$C for 10 seconds, loco will shut down.

**a.** 84$^0$C **b.** 70$^0$C

**c.** 80$^0$C **d.** 47$^0$C

**321.** OHE working range of three phase loco is …….. KV. (T)

**a.** 17.5 KV & 30 KV **b.** 17 KV & 30 KV

**c.** 17.5 KV & 30.5 KV **d.** 17 KV & 30.5 KV

**322.** SS 18 belongs to …… sub system.

**a.** Fire detection **b.** Memotel

**c.** Processor FLG 1 **d.** Processor FLG 2

**323.** Location of CHBA is ……

**a.** Machine room No. 1 **b.** Machine room No. 2

**c.** BUR 1 **d.** BUR 2

**324.** To close the DJ, ensure …… node information on screen.

**a.** FLG 504 **b.** FLG 550

**c.** FLG 570 **d.** FLG 590

**325.** To isolate panto No. 1 keep panto selector switch in …… position.

**a.** Auto **b.** I

**c.** II **d.** I & II

**326.** In three Ø loco each battery box is provided with …… number of batteries. (T)

**a.** 13 **b.** 26

**c.** 3 **d.** 39

**327.** Actions of emergency stop push button in three Ø loco are ……

**a.** VCB trips **b.** Panto lowers

**c.** TE/BE comes to 'O' **d.** All the above

**328.** Procedure of resetting VCD in WAG 9 / WAP 7 loco is …….

**a.** Keep throttle in 'O' **b.** Wait for 160 Seconds

**c.** Press BPVR **d.** All the above

**329.** Location of MCP 2 in three Ø loco is ……

**a.** Loco left side **b.** Loco right side

**c.** Machine room No. 1 **d.** Machine room No. 2

**330.** SS 17 belongs to …… sub system.

**a.** Fire detection **b.** Memotel

**c.** Processor FLG 1 **d.** Processor FLG 2

**331.** Procedure of isolating VCD is …….

**a.** 154 in '1' **b.** 154 in 'O'

**c.** 237.1 in '1' **d.** 237.1 in 'O'

**332.** CHBA is getting supply from …… (T)

**a.** Auxiliary converter No. 1 **b.** Auxiliary converter No. 2

**c.** Auxiliary converter No. 3 **d.** Traction converter No. 1

**333.** If battery voltage drops below …….. volts, loco will shut down. (T)

**a.** 82 Volts **b.** 87 Volts

**c.** 90 Volts **d.** 92 Volts

**334.** For CHBA, MCB No. ……. is output and located in ……..

**a.** 110; SB 1 **b.** 110; SB 2

**c.** 100; HB 1 **d.** 100; HB 2

**335.** For isolation of Auxiliary converter No. 1 trip MCB No. ……

**a.** 127.22/1 in SB 1 **b.** 127.22/1 in SB 2

**c.** 127.22/2 in SB 1 **d.** 127.22/2 in SB 2

**336.** VCD is required to acknowledge after attaining of ….. kmph of train speed.

**a.** 5 kmph **b.** 1 kmph **c.** 1.5 kmph **d.** 15 kmph

337. A Railway servant may be placed under suspension:---

(A) where a disciplinary action for imposition of minor penalty is pending
(B) where a disciplinary action for imposition of major penalty is pending
(C) Where a fact-finding inquiry is pending on a report against him.
(D) Where a case against him in respect of a Civil Suit is pending in a Court of Law.

338. The headquarters of a railway servant under suspension shall be :---

a. The place where the Divisional headquarters is located.
b. The place where his family is residing
c. His last place of duty.
d. No station since he is not performing duties.

339.Find out the deductions which should not be made from the subsistence allowance :---

a. Rent for quarters.
b. Income Tax
c. LIC Premia
d. Subscription to PF

340.One of the following is not a major penalty. Find out.

a. Reduction to lower service / post / grade for a specified period without loss of seniority.
b. Reduction to lower service / post / grade for a specified period with loss of seniority.
c. Reduction to lower stage in time scale of pay for 4 years (NR).
d. Withholding of increment with recurring effect for a period of 6 years.

341.One of the following is an irregular penalty. Find out.

a. Withholding of increment with recurring effect.

b. Withholding of increment with loss of seniority.

c. Withholding of increment exceeding 3 years.

d. Withholding of increment not exceeding 6 months.

342. An Enquiring Authority appointed to hold an inquiry against a railway servant :-

a. should be incharge supervisory official of the unit of charged official.
b. should be gazetted officer.

c. should be higher than the charged official.

d. should be one who is immediately in lower grade to Disciplinary authority.

343.Annexure III to SF 5 is :--

a. A list of Articles of Charges.

b. Statements of imputations of misconduct in respect of each Article of charges.

c. A list of relied upon documents.

d. A list of witnesses by whom charges are proposed to be proved.

344. The purpose of issuing a charge-sheet to a railway servant, is :---

a. to warn him to be careful in future.

b. to afford him an opportunity to defend himself from the accusation.
c. Where minor penalty is imposed affecting the pensionary benefits

of the charged official.

d. Where services of a railway servant are to be terminated in accordance with the terms of agreement.

345.A retired railway servant may act as defence counsel.

(A) in not more than 2 cases.

(B) in not more than 5 cases.

(C) in any number of cases.

(D) in no case.

346. Find out the Order against which Appeal does not lie :--

(A) an order of deemed suspension.

(B) an order of E.O. passed during the course of enquiry.

(C) an order made by the G.M.

(D) an order enhancing any penalty imposed by G.M.

347."Charge" means - a railway servant's action :--

(A) not appriciated by the Controlling Officer.

(B) of an out-standing nature.

(C) violating a standing order and made known to him to explain.

(D) None of the above.

348.Find out among the following the aspect which is vilotive of principles of natural justice :--

(A) the offence alleged to have been committed by railway servant v was made known to him.

(B) the charged official was given an opportunity to produce defence documents.

(C) the witnesses on behalf of D.A. were not allowed to be cross-examined by the charged employee.

(D) the I.O. appointed to hold enquiry was a disinterested person.

**349.**An officer who is competent to impose the penalty of "Compulsory Retirement" on a given railway servant, will also have the powers to impose :--

(A) any other penalty lower than CR only.

(B) any one of the minor penalties only.

(C) penalties of 'Removal' & 'Dismissal' also.

(D) no other penalty hihger or lower than Compulsory Retirement.

**350.**The time allowed to charged official to submit his revision petition to the appropriate authority is :--

(T)

a. 15 days

b. 45 days

c. 60 days

d. 180 days

**351.**A witness who is summoned by Disciplinary Authority to prove the charges, (T) \
deposes before I.O. in favour of charged official. Such a witness is called.

(A) Expert witness

(B) Defence witness

(C) Prosecution witness

(D) Hostile witness

(E) Irrelevant witness

**352.** One of the following is not a penalty under DAR. Find out.

(A) Withholding of Privilege Passes

(B) Withholding of Post-Retirement Passes

(C) Withholding of PTOs

(D) Withholding of Privilege Passes and PTOs

**353.** "Revision" of a penalty under Rule 25 of RS [D&A] Rules is applicable to :--

(A) All the minor penalties only

(B) All the major penalites only

(C) All the minor and major penalties

(D) Compulsory Retirement, Removal and Dismissal

**354.** Speaking order means

(A) Reasons recorded in support of decision taken by the Disciplinary Authority

(B) The memorandum communicating the penalty

(C) The written statement of defence of the charged official

(D) The report of the Inquiry Officer

**355**. Colour of crimping tool handle used for insulated type lug crimping in control cables ?

- A) Metallic
- B) Green
- C) Yellow
- D) No colour

**356** Type of die used for crimping of power cable?

- A) D- type
- B) Hexagonal small type
- C) U-type
- D) Hexagonal Big type

**359.** In DBR isolated loco which contact required specific attention during inspection?

- A) Traction contact
- B) Braking contact
- C) Both A & B
- D) None of the above

**360.**For attention of auxiliary interlocks which paper is used during inspection?

- A) Emery paper Grade 120
- B) Sand paper grade 80
- C) Polish paper grade 2000

  D) Polish paper grade 4000

**361.**For proper isolation of spare cable ELS/HWH has adopted a recent method of?

- A) Apply glass tape
- B) Apply black PVC tap
- C) Apply varnish

- D) Both A & C

**362.** Range of gap between main contact tip of C107 contactor?

- A) 6.5 to 7.5 mm
- B) 7.5 to 8.5 mm
- C) 7.5 to 9.5 mm
- D) 6.5 to 8.5 mm

**363.** Range of dip gap of drum type reverser?

- A) 1 - 1.5 mm
- B) 1.5 – 2.0 mm
- C) 1.2 - 1.8 mm
- D) 1.5 - 1.8 mm

**364.**Contact pressure of Fixed contact in drum type reverser?

a) 10 Kg
b) 11 Kg
c) 12 Kg
d) 13 Kg

**365.** In which inspection servomotor grease is required to be changed in reverser?

- A) IA
- B) IC
- C) Both IA & IC
- D) Grease conditional basis changing required

**366.**Chronological time setting of C-118 should be?

- A) 3 sec
- B) 4 sec
- C) 5 sec

D) 6 sec

**367.** Lateral play of core of C-118 contactor(EM type)?

- A) 0.1-0.3 mm
- B) 0.1-0.4 mm
- C) 0.3-0.4 mm

D) 0.2-0.4 mm

**368.** Main contact gap of EP type C-118 contactor?

- A) 21 - 23 mm
- B) 16 - 18 mm
- C) 21 - 25 mm
- D) 16 - 20 mm

**369.**In case of throttle failure, operation of which rotary switch is expected?

- A) 154
- B) 160
- C) 237.1
- D) 152

**370.** When Rotary switch 160 is made to position ‘0’ ?

- A) For shunting mode operation
- B) To isolate bogie
- C) For Failure mode operation
- D) To cut out vigilance device

**371.** Circuit breaker monitoring is

- A) 127.1/2
- B) 127.2/2
- C) 127.22/2
- D) 127.11/2

**372.** Torque required for tightness of IP bolt of WAP 4 Traction motor?

- A) 35 Kg
- B) 28 Kg
- C) 20 Kg
- D) None of the above

**373.** Recommended Arc horn gap of WAP-4 Traction motor?

- A) 11.5 - 13.5 mm
- B) 11.5 - 12.5 mm
- C) 12.5 - 14.5 mm

D) 11.5 - 14.5 mm

**374.** Condemn limit of diameter of WAP-4 Traction motor commutator?

- A) 400 mm
- B) 385 mm
- C) 390 mm
- D) 380 mm

**375.** How much minimum pinion bedding is required in WAP-4 TM?

- A) 80 %
- B) 85 %
- C) 90 %
- D) 98 %

**376.** What is the minimum brush holder spring pressure in WAP 4 TM?

- A) 3.44 kgf +- 10%
- B) 3.44 kgf +- 5 %
- C) 2.88 kgf +- 5%
- D) 2.88 kgf +- 10%

**377.** Maximum permissible difference of resistance between two element of temperature sensor of WAP 7 TM?

- A) 0.6 ohm
- B) 0.4 ohm
- C) 0.3 ohm
- D) 0.1 ohm

**378.** Gap between speed sensor & Ring of Hall effect speed sensor to be kept?

- A) 1.2 mm
- B) 1.6 mm
- C) 1.0 mm
- D) 1.8 mm

**379.** Voltage rating of 6FRA6068 type traction motor?

a) 2180 V
b) 2800 V
c) 850 V
d) 630 v

**380.** Type of grease used in WAP 7 traction motor?

- A) RR 3
- B) SHC 120
- C) 460 RR
- D) Both A & B

**381.** In one WAP 7 loco Traction motor maximum permissible phase to phase inductance variation?

- A) 0.05 mH
- B) 0.005 mH
- C) 0.0015 mH
- D) 0.015 mH

**382.** How many type of rotor presently in use in WAP-7 Traction motor

- A) 3
- B) 4
- C) 5

D) 1

**383.** Gear ration of WAP-7 Traction motor?

- A) 20:58
- B) 23:58
- C) 20:72
- D) None of the above

**384.** For measuring Pinion travel WAP 7 loco Traction motor, Gap between pinion & collar of shaft should be?

- A) 12 +- 0.1 mm
- B) 15 +- 0.1 mm
- C) 4 +- 1 mm

  D) None of the above

**385.** How many blades are there in MVMT impeller ?

- A) 12
- B) 20
- C) 24
- D) All of the above

**386.** In bearing nomenclature ZC3 indicates

- A) Ball bearing
- B) both side sealed
- C) one side sealed

  D) Both A & C

**387.** What is output rating of ARNO?

- A) 150 KVA
- B) 140 KVA
- C) 130 KVA
- D) 120 KVA

**388.** End cover dia of MR scavange & TM scavange blower is measured by?

- A) Inside micrometer
- B) Vernier caliper
- C) Hand made guage

  D) Not being measure

**389.** Size of locking bolt in commutator end?

- A) 16 x 35
- B) 16 x 40
- C) 20 x 35
- D) 20 x 40

**390.** Size of bearing used in TM blower?

- A) 6206
- B) 6208
- C) 6306
- D) 6312

**391.** Dynamic balancing limit of MVMT?

- A) 4 m/s
- B) 3 m/s
- C) 5 m/s
- D) 6 m/s

**392.** What is the pressure switch setting in Schneider make VCB?

- A) 3.3 - 3.6 Kg
- B) 4.0 - 4.6 Kg
- C) 3.3 – 4.6 Kg
- D) None of the above

**393.** Pressure regulator setting in Areva Make VCB?

- A) 4.5 +- 0.1 Kg
- B) 4.0 +- 0.5 Kg
- C) 5.5 - 6.0 Kg
- D) 5.0 - 5.5 Kg

**394.** What is the pressure switch setting in AAL/BTIL make VCB?

- A) 3.3 -3.6 Kg
- B) 4.0-4.6 Kg
- C) 3.3 – 4.6 Kg
- D) None of the above

**395.** Pressure regulator setting in AAL/BT Make VCB?

- A) 4.5 +- 0.1 Kg
- B) 4.0 +- 0.5 Kg
- C) 5.5 - 6.0 Kg
- D) 5.0 - 5.5 Kg

**396.** What is setting of Q30 relay?

- A) 790/710 V DC
- B) 250/200 V DC
- C) 215/150 V AC
- D) 790/710 V AC

**397.** What is the drum setting of QLM relay?

- A) 8
- B) 8.5
- C) 9.0

  D) 9.5

**398.** Time delay provided in Q44 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

**399.** Time delay provided in Q118 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

**400.** Time delay provided in PR1 Relay?

- A) 0.4 sec
- B) 60 sec
- C) 0.65 sec
- D) 5 sec

**401.** What is the setting of QVRH relay?

- A) 50/42 mm WC
- B) 13/8 mm WC
- C) 20/14 mm WC
- D) None of the above

**402.** What is the drop out voltage setting of MVR relay?

- A) 110 V
- B) 140 V
- C) 180 V
- D) 200 V

**403.** What is the pressure setting of QPH relay?

- A) 8.0- 9.5 Kg
- B) 4.0 - 4.6 Kg
- C) 0.3 – 0.6 Kg
- D) None of the above

**404.** Specific gravity of electrolyte used in Ni-Cd battery?

- A) 1.1
- B) 1.25

- C) 1.2
- D) 1.21

**405.** Name of electrolyte used in WAP-7 batteries?

- A) KoH
- B) NaoH
- C) NacL
- D) None of the above

**406.** During capacity checking of WAP-4 batteries (Lead acid), what is rate of discharge kept?

- A) 10 A for 7.5 hrs
- B) 15 A for 5.0 hrs
- C) 15 A for 7.0 hrs
- D) 25 A for 3.0 hrs

**407.** What is limit of voltage below which a cell is rejected during capacity checking?

- A) 1.5 V
- B) 1.6 V
- C) 1.7 V

  D) 1.8 V

**408.** What is the passing limit of LA during leakage current test at 25 KV?

- A) 50-100 uA
- B) 500-1000 uA
- C) 25-50 uA

  D) 10-15 uA

**409.** How many type of memories are there in speedometer?

- A) 1
- B) 2
- C) 3

  D) 4

**410.** Pick up voltage setting of Q20 relay?

- A) 790 V
- B) 750 V
- C) 730 V

  D) 710 V

**411.** Relay used to measure differential current between TM 4 & 5?

- A) QRSI 1
- B) QRSI 2
- C) QD 1

  D) QD 2

**412.** Lubricating oil used for control lever guide pin?

- A) RR 3
- B) BBC 909
- C) Transformer oil
- D) Both B & C

**413.** What is gap between CGR contact tips?

- A) 30 - 48 mm
- B) 36 – 48 mm
- C) 30 – 36 mm
- D) 36 – 48 mm

**414.** What is the range of contact pressure of CGR tips?

- A) 6.0 – 9 kg
- B) 5.6 – 9 kg
- C) 6.6 – 9 kg
- D) 6.6 – 7.8 kg

**415.** What is the minimum BDV value of used GR oil?

- A) 40 KV
- B) 60 KV
- C) 50 KV
- D) 75 KV

**416.** What should be the minimum spring height of GR contact roller spring after applying 6.2 kg load?

- A) 15.0 mm
- B) 15.6 mm
- C) 15.3 mm
- D) 16.0 mm

**417.** At what temperature resistance of solenoid valve coil is corrected ?

- A) 10 degree C
- B) 20 degree C
- C) 30 degree C

  D) 40 degree C

**418.** What should be the minimum carbon impression to ensure proper bedding of reverser?

- A) 3 x 45 mm
- B) 3 x 40 mm
- C) 4 x 45 mm
- D) 4 x 40 mm

**419.** Recommended torque value for tightness of special bolt of insulating ring of GR?

- A) 14 – 15 Nm
- B) 20 – 30 Nm
- C) 11 – 13 Nm
- D) 5 – 6 Nm

**420.** Recommended torque value for tightness of Special nut & conical nut of GR?

- A) 14 – 15 Nm
- B) 20 – 30 Nm
- C) 11 – 13 Nm
- D) 5 – 6 Nm

**421.** Standard gap to be kept in between Bushing tightness nut & connection tightness nut in WAP-7 loco transformer power bushing?

- A) 3 – 5 mm
- B) 4 – 5 mm
- C) 3 – 6 mm
- D) 4 – 6 mm

**422.** Recommended torque for tightening of WAP-7 loco transformer bushing nut?

- A) 100 Nm
- B) 130 Nm
- C) 150 Nm

  D) 180 Nm

**423.** For WAP – 7 loco radiator cleaning, what is the recommended pressure for Compressed air?

- A) 4 – 7 kg
- B) 5 – 7 Kg
- C) 4 – 6 Kg
- D) 5 – 6 kg

**424.** What should be the water temperature for radiator cleaning in WAP-7 loco?

- A) 50 degree C
- B) 60 degree C
- C) 70 degree C
- D) 80 degree C

**425.** Recommended air flow to be ensured just below the radiator of WAP-7 loco?

- A) 6 m/s
- B) 6.5 m/s
- C) 7 m/s
- D) 8 m/s

**426.** Recommended gap between Intermediate gear & Guide pin?

- A) 0.3 -0.7 mm

- B) 0.4- 0.7 mm
- C) 0.3 – 0.6 mm

  D) 0.4 – 0.6 mm

**427.** Oil used in traction converter of GTO based loco?

- A) APAR oil
- B) shell dyla Dx
- C) 460 RR
- D) None of the above

**428.** What should be the level of TFP oil in winter in WAP 4 loco?

- A) 2” above min mark
- B) 1” above min mark
- C) 3” above min mark
- D) 4” above min mark

**429.** What is the level of GR oil to be maintained in winter?

- A) 10 -20 degree C mark
- B) 20 - 30 degree C mark
- C) 30 - 40 degree C mark
- D) 40 – 50 degree C mark

**430.** In ARNO based WAP-4 locomotive both auxiliary windings are connected in?

- A) Series
- B) Parallel
- C) Any one among Series or parallel
- D) None of the above

**431.** In ARNO based WAP-4 locomotive additional link to be in between?

- A) a0 & a7
- B) a1 & a8
- C) Both A & B
- D) None of the above

**432.** For safe welding earthing clamp should be fixed at a distance of?

- A) 0.5 m
- B) 1 m
- C) 1.5 m
- D) None of the above

**433.** The type of motor used in EOT crane at ELS/HWH is?

- A) Squirrel cage induction motor
- B) Slip ring induction motor
- C) DC series motor

- D) DC shunt motor

**434.** In WAP 7 locomotive what type of motor is used?

- A) DC shunt motor
- B) Slip ring induction motor
- C) DC series motor
- D) Squirrel cage induction motor

**435.** What is the mechanical safety device used in EOT crane?

- A) Overload relay
- B) Single phase preventer
- C) Limit switch
- D) No mechanical protection provided

**436.** What are the electrical safety device used in EOT crane?

- A) Overload relay
- B) Single phase preventer
- C) Limit switch
- D) No electrical protection provided

**437.** Brake power testing of 50 ton EOT crane can be done by?

- A) By lifting a bogie
- B) By lifting a motorised bogie
- C) By lifting a loco

  D) By lifting a transformer

**438.** Now a days the conventional main switch of LT panel is replaced by new type of?

- A) MCCB
- B) MCB
- C) ACB
- D) OCB

**439.** The insert used for loco turning of locomotive is of ?

- A) 17 mm
- B) 19 mm
- C) 21 mm
- D) 24 mm

**440.** The schedule of PU painting is?

- A) 1.5 years
- B) 2.0 years
- C) 3.0 years
- D) 4.0 years

**441.** Backfire protection of welding gas can be due to?

- A) Defect of gas cutting torch
- B) Defect of torch
- C) Defect of pipe
- D) All of the above

**442.** The minimum wire rope deum strand damaged in steel wire rope which can allow safe running is?

- A) 10 % of wire rope dia
- B) 15 % of wire rope dia
- C) 25 % of wire rope dia

D) 50 % of wire rope dia

**443.** Before going inside of a loco for loco cleaning?

- A) Staff should see the loco in trip condition
- B) Battery should be off
- C) Both A & B
- D) None of the above

**444.** Before welding of WAP 7 loco it should be ensured that?

- A) Battery should be off
- B) Panto should be down
- C) Earthing clamp should be at minimum position of welding
- D) All of the above

**445.** The reverse operation of LT motion of EOT crane should be avoided for?

- A) Damage of motor
- B) Damage in LT gear box coupling
- C) Damage in gear & pinion
- D) Damage in load

**446.** Filter cleaning of WAP 7 loco is being done in?

- A) IA
- B) IB
- C) IC
- D) Every inspection

**447.** Length of WAP 4 axle?

- A) 2440 m
- B) 2438 m
- C) 2439 m
- D) 2442 m

**448.** In NELA(Near end law angle) UFD machine is calibrated for?

- A) 2500 m
- B) 1000 m

- C) 500 m
- D) 1500 m

**449.** Angle probe required for WAP 7 axle are?

- A) 12.5º,15º,10º
- B) 15º,17.5º,12.5º
- C) 10º,12.5º

  D) 10º,17.5º

**450.** Frequency of normal probe is?

- A) 1.25 MHz
- B) 2.25 MHz
- C) 2.5 MHz

  D) 2.0 MHz

**451.** Whole length of axle is tested by

- A) Trace delay scanning
- B) NELA scanning
- C) Far End scanning
- D) None of the above

**452.** Back Peak signal is seen during UST of WAP 4 axle?

- A) 8.5 division
- B) 8.9 division
- C) 9.8 division

  D) 9.7 division

**453.** In dissolve gas analysis H2 is detected by?

- A) TCD
- B) ECD
- C) FID
- D) PID

**454.** Harmful gases evolve by celluloid decomposition are?

- A) $H_2$ , $C_2$ $H_4$
- B) $CH_4$ , $C_2$ $H_4$
- C) CO , $C_2$ $H_6$
- D) CO , $CO_2$

**455.** DGA is done to find?

- A) Crack in Core
- B) Incipient fault
- C) Any mechanical damage
- D) None of these

**456.** DGA of transformer oil is done by?

- A) Spectography
- B) Gas chromatography
- C) Seisomograph
- D) None of the above

**457.** Which of the following is destrutive test?

- A) DPT
- B) MPT
- C) UST
- D) Acidity test

**458.** MPT (magnetic particle test ) is done on?

- A) Rubber material
- B) Aluminium material
- C) Copper material
- D) Ferro magnetic material

**459.** Sub surface (Upto 3 mm) crack is detected by?

- A) DPT
- B) MPT
- C) UST
- D) None of the above

**460.** Permissible limit of ferrous content in metal content of grase?

- A) 0.1 gm/100 gm sample
- B) 0.2 gm/100 gm sample
- C) 0.25 gm/100 gm sample
- D) 0.30 gm/100 gm sample

**461.** Which of the following probe is used in coarse grained axle?

- A) 2.0 MHz
- B) 2.5 MHz
- C) 1.25 MHz
- D) None of the above

**462.** Internal crack below which wavelength cannot be detected by FE & NELA scanning ?

- A) Below 1/3 rd wavelength
- B) Below 1/2 rd wavelength
- C) Below 3/4 rd wavelength

D) none of the above

**463.** Generally fatigue crack is develop in the following part of axle?

- A) Journal
- B) Body
- C) Gear seat
- D) none of these

**464.** Function of probe is?

- A) Energy transmission
- B) Energy Conduction
- C) Energy correction
- D) Energy conversion

**465.** In electric locomotives, Hand brake chain is connected with the lever of wheel no.?

- A) 12
- B) 01
- C) 08
- D) 02

**466.** Condemning diameter of wheel of WAP-7 loco?

- A) 1012 mm
- B) 1052 mm
- C) 1016 mm
- D) 1097 mm

**467.** Flexicoil mark – I steel casting bogies are used in?

- A) WAG 7
- B) WAP 4
- C) WAM 4
- D) WAP 7

**468.** No. of traction/aclathan housing used in WAP -7 loco?

- A) 02
- B) 04
- C) 06
- D) 08

**469.** Gear ration in WAP-7 loco is?

- A) 20:72
- B) 23:58
- C) 23:72
- D) 20:58

**470.** Service limit of guage width of wheels on same axle is?

- A) 1595 to 1599 mm
- B) 1595.5 to 1599 mm
- C) 1596 to 1599 mm
- D) 1596.5 to 1599 mm

**471.** Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

**472.** New & condemning limit of L-type composite brake blocks are respectively?

- A) 55 mm,15 mm
- B) 55 mm, 10 mm
- C) 35 mm, 10 mm
- D) 35 mm, 15 mm

**473.** The clearance between outer connecting strap of brake pull rod & wheel face in WAP-4 loco is?

- A) 30.5 mm
- B) 32.5 mm
- C) 21.5 mm
- D) 31.5 mm

**474.** Which class of electrode is used for welding of manganese steel liner?

- A) E2
- B) N3
- C) M5
- D) K

**475.** Spheriblock of torque arm must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

**476.** Gap between outer thrust collar & inner thrust collar in end axle box of Wap-4 loco is maintained?

- A) 4.5 mm to 8.5 mm
- B) 4.5 mm to 6.5 mm
- C) 3.5 mm to 6.5 mm
- D) 4.0 mm to 6.5 mm

**477.** Maximum variation of CBC height between locomotive & adjacent coach is?

- A) 65 mm
- B) 85 mm
- C) 55 mm

  D) 75 mm

**478.** For fixing of traction motor with MSU in WAP4 loco bolt used is?

- A)  M 36 X 100
- B) M 24 X 110
- C)  M 36 X 110

  D) M 24 X 100

**479.** Vertical play of end brake hanger in WAP4 brake gear should not be more than?

- A) 08 mm
- B) 10 mm
- C) 06 mm

  D) 09 mm

**480.** Standard CBC height from rail level?

- A) 1030 to 1105 mm
- B) 1090 to 1110 mm
- C) 1030 to 1090 mm
- D) 1040 to 1105 mm

**481.** Rail guard height from Rail level for WAP4 loco is?

- A) 112 to 119 mm
- B) 102 to 119 mm
- C) 106 to 119 mm
- D) 104 to 119 mm

**482.** Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?

- A) 5 mm
- B) 3 mm
- C) 6 mm
- D) 8 mm

**483.** Maximum limit of metal content allowed in axle box for 100 gram grease sample?

- A) 0.25 gm
- B) 0.20 gm
- C) 0.30 gm
- D) 0.15 gm

**484.** Helical insert IN provided into helical tapped hole of axle box cover on axle box nos?

- A) 2,5,8,11
- B) 1,6,7,12
- C) 3,4,9,10
- D) 1,2,11,12

**485.** Oil used in WAP-7 gear case?

- A) Shell gadus
- B) RR 460
- C) RR 3
- D) Shell dyla Dx

**486.** Condemning diameter of wheel of WAP-7 loco?

- A) 1012 mm
- B) 1052 mm
- C) 1016 mm
- D) 1097 mm

**487.** Flexicoil mark – I steel casting bogies are used in?

- A) WAG 7
- B) WAP 7
- C) WAM 4
- D) WAP 4

**488.** Grease used in WAP -7 axle box?

- A) Shell gadus
- B) RR 460
- C) RR 3
- D) Shell dyla Dx

**489.** No. of teeth in WAP-7 bull gear?

- A) 72
- B) 58
- C) 20
- D) 23

**490.** Depth of spheriblock zig used in TM torque support?

- A) 2 mm
- B) 4 mm
- C) 5 mm
- D) 6 mm

**491.** Height of sandwitch rubber mounting pad in new condition?

- A) 304 mm
- B) 308 mm
- C) 312 mm
- D) 315 mm

**492.** Tightness torque of WAP 7  MSU bolt ?

- A) 1000 N-m
- B) 1260 N-m
- C) 1400 N-m
- D) 1560 n-m

**493.** Size of WAP 4 axle box cover stud?

- A) M 20 x 40
- B) M 22 x 50
- C) M 22 x 40
- D) M 20 x 50

**494.** Which class of electrode is used for welding of manganese steel liner?

- A) E2
- B) N3
- C) M5
- D) K

**495.** Spheriblock of torque arm must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree

  D) 120 degree

**496.** Which class of electrode is used for welding of Bogie frame & bolster ?

- A) E2
- B) N3
- C) M5
- D) K

**497.** Tightness torque of WAP 7 axle clamping plate fixing socket cap screw?

- A) 250 N-m
- B) 280 N-m
- C) 300 N-m
- D) 320 N-m

**498.** For fixing of traction motor with MSU in WAP4 loco bolt used is?

- A) M 36 X 100
- B) M 24 X 110
- C) M 36 X 110
- D) M 24 X 100

**499.** Size of WAP 7 axle journal diameter?

- A) 150.000 to 150.068
- B) 150.000 to 150.043
- C) 150.043 to 150.068
- D) 105.043 to 150.072

**500.** Spheriblock of axle guide rod must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

**501.** In WAP 7 loco axle housing bore dia should not be less than?

- A) 250.000 mm
- B) 250.023 mm
- C) 250.046 mm
- D) 250.078 mm

**502.** Capacity of crane used for heavy lifting of locomotive?

- A) 15 Ton
- B) 25 Ton
- C) 40 Ton
- D) 50 Ton

**502.** Grease used in Axle tube of WAP 7 loco?

- A) Shell gadus
- B) 460 RR
- C) SHC 120
- D) RR 3

**503.** Type of bogie used in WAP 7 locomotive?

- A) Casting
- B) Casting & fabricated mix
- C) Fabricated
- D) none of the above

**504.** Contact pressure of pantograph with OHE contact wire?

- A) 5 Kg
- B) 6 kg
- C) 7 kg
- D) 8 kg

**505.** Gap of ET-1 to be adjusted at?

- A) 90 mm
- B) 70 mm
- C) 200 mm
- D) 210 mm

**506.** Maximum height of pantograph should be limited at?

- A) 2 m
- B) 2.5 m
- C) 1.75 m
- D) 1.5 m

**507.** How much tranverse deflection is allowed in pantograph by applying 30 kg at a height of 2 m?

- A) 10 mm on each side
- B) 30 mm on each side
- C) 15 mm on each side
- D) None of the above

**508.** Total no. of roof line insulator used in WAP 7 locomotive?

- A) 8
- B) 5
- C) 9
- D) 4

**509.** Tightening torque of carbon strip fixing bolt?

- A) 1.5 kg-m
- B) 2.5 kg-m
- C) 3.0 kg-m
- D) 5.0 kg -m

**510.** Swivel angle of pantograph pan should be?

- A) 5 +- 1 degree
- B) 6 +- 1 degree
- C) 7 +- 1 degree
- D) 8 +-1 degree

**511.** Condemning limit of thickness of carbon strip?

- A) 3.5 mm
- B) 4.0 mm
- C) 4.5 mm

  D) 5.0 mm

**512.** Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

**513.** Lowering time pantograph to be adjusted at?

- A) Up to 6 sec
- B) Up to 10 sec
- C) between 5-10 sec
- D) between6-10 sec

**514.** What is the maximum permissible speed of IR-03H type pantograph?

- A) 130 kmph
- B) 140 kmph
- C) 200 kmph
- D) 250 kmph

**515.** What is maximum current rating of pantograph?

- A) 300 A
- B) 400 A
- C) 500 A

  D) 150 A

**516.** Weight of CO2 gas in CO2 gas big cylinder in WAP 7 locomotive?

- A) 5 kg
- B) 40 kg
- C) 22.5 kg

  D) 2 kg

**517.** Which chemical is used in DCP type fire extinguisher?

- A) Sodium carbonate
- B) Sodium bicarbonate
- C) Sodium hydroxide
- D) None of the above

**518.** Lubricant used in plunger box of pantograph?

- A) SP -78
- B) Servo gem -2
- C) Vaseline

  D) Talpa -40

**519.** Co2 cartidge in 5 kg DCP type fire extinguisher is required to be changed in case of cartidge weight is ……. ..less than actual weight ?

- A) 10 gm
- B) 12 gm
- C) 15 gm

  D) 20 gm

**520.** In WAP 7 loco axle housing bore dia should not be less than?

- A) 250.000 mm
- B) 250.023 mm
- C) 250.046 mm

  D) 250.078 mm

**521.** Capacity of crane used for heavy lifting of locomotive?

- A) 15 Ton
- B) 25 Ton
- C) 40 Ton
- D) 50 Ton

**522.** Grease used in Axle tube of WAP 7 loco?

- A) Shell gadus
- B) 460 RR
- C) SHC 120

  D) RR 3

**523.** Type of bogie used in WAP 7 locomotive?

- A) Casting
- B) Casting & fabricated mix
- C) Fabricated
- D) none of the above

**524.** Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?

- A) 6 min
- B) 7 min
- C) 8 min
- D) 9 min

**525.** Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?

- A) 90 mim
- B) 100 min
- C) 120 min
- D) 200 min

**526.** Application time of SA9?

- A) 5-8 sec
- B) 6-9 sec
- C) 6-10 sec
- D) 5-10 sec

**527.** Release time of A9?

- A) 6-9 sec
- B) 9-13 sec
- C) 10-15 sec
- D) None of the above

**528.** Setting of MR reservoir safety valve in WAP 4 loco?

- A) 10 kg/cm2
- B) 10.5 kg/cm2
- C) 11 kg/cm2
- D) 11.5 kg/cm2

**529.** How many position in A9 of WAP4 loco?

- A) 2
- B) 5
- C) 6
- D) None of the above

**530.** Torque tightness of CP foundation bolt?

- A) 180 Nm
- B) 210 Nm
- C) 200 Nm

  D) 195 Nm

**531.** BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

**532.** How many types of card used in E-70 brake system?

- A) 5
- B) 4
- C) 6

  D) 7

**533.** If A9 of cab2 is defective which LED should glow in control card ?

- A) LED no. 1
- B) LED no. 2
- C) LED no. 3
- D) LED no. 1&2

**534.** Baby pressure required for Panto raising?

- A) 4.5 kg
- B) 5.0 kg
- C) 5.4 kg
- D) 5.5 kg

**535.** In which position of selector switch “Configuration mismatch” message appears in locomotive with CCB brake system?

- A) CAB 1 in LEAD & CAB2 in LEAD
- B) CAB 1 in TRAIL & CAB 2 in TRAIL
- C) CAB 1 in LEAD & CAB 2 in TRAIL
- D) Both 1 & 2

**536.** Setting of limiting valve in A-9 of Wap-7 locomotive?

- A) 1.8 kg
- B) 2.5 kg
- C) 3.0 kg

  D) 3.5 kg

**537.** Minimum no. of D-shackle should be used in Compressor safety sling?

- A) 2
- B) 4
- C) 3

  D) 5

**538.** If regenerating braking fails pneumatic brake applied through?

- A) PS card
- B) control card
- C) Blender card
- D) None of the above

**539.** WAP-4 locomotive with how many no. of reservoir are used in Duronto exp?

- A) 4
- B) 5
- C) 3

D) 6

**540.** How many types of coupling used in compressor?

- A) 1
- B) 2
- C) 3

D) 4

**541.** Which mode is used for BP leakage test in CCB brake system fitted locomotive?

- A) Test mode
- B) Helper mode
- C) Banking mode
- D) Normal mode

**542.** Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

**543.** When air dryer in service CP time increase by?

- A) 10 %
- B) 15 %
- C) 20 %

D) 25 %

**544.** Total no. of loco holding of ELS/HWH on date?

- A) 149
- B) 150
- C) 154

D) 156

**545.** What type of traction motor used in WAP -4 locomotive?

- A) DC shunt motor
- B) AC induction motor
- C) DC series motor
- D) AC slip ring induction motor

**546.** Time gap between one IOH to MOH of WAP 7 locomotive?

- A) 1.5 years
- B) 3 years
- C) 2 years
- D) 4 years

**547.** In WAP 4 locomotive TR related to?

- A) Traction
- B) Transformer
- C) Training register
- D) Relay panel

**548.** CTF stands for

- A) Traction braking reverser
- B) Control traction failure
- C) Forward traction control
- D) None of the above

**549.** Abbreviation of reverser is?

- A) ‘R’
- B) ‘S’
- C) ‘J’
- D) ‘MP’

**550.** In shed area shunting in done by?

- A) LP
- B) ET
- C) Points man
- D) ALP

**551.** Generally minor scheduled inspection are done under?

- A) OHE charged condition in inspection pit
- B) Unwired section of inspection pit
- C) By isolating OHE in inspection pit
- D) By isolating OHE & proper earthing of OHE in inspection pit

**552.** Capacity of transformer used in WAP 4 locomotive?

- A) 5400 KVA
- B) 6500 KVA
- C) 7500 KVA
- D) 7775 KVA

**553.** Individual TM can be isolated in?

- A) GTO based WAP 7 locos
- B) IGBT based WAP 7 locos
- C) Both A & B
- D) None of the above

**554.** Periodicity of IC of WAP 7 locomotive is?

- A) 90 days
- B) 180 days
- C) 270 days
- D) 120 days

**555.** PSA switch stands for?

- A) Brake elimination
- B) Sanding
- C) Pneumatic control
- D) Vigilance

**556.** SF 11 stands for?

- A) Confidential
- B) Warning
- C) Minor penalty charge sheet
- D) Major penalty charge sheet

**557.** In WAP 4 locos name of EM contactor panel?

- A) BA panel
- B) SB panel
- C) TK panel
- D) EM panel

**558.** After POH/MTR which schedule is carried out?

- A) IA
- B) IB
- C) IC

  D) IC0

**559.** Hotel load indicates?

- A) Lighting & Fan load in coaches
- B) Air conditioning in coaches
- C) Pantry car load

  D) All above

**560.** What is the maximum speed of WAP 7 loco?

- A) 110 KMPH
- B) 130 KMPH
- C) 140 KMPH
- D) 160 KMPH

**561.** PR stands for?

- A) Progression
- B) Head light
- C) Primary resistance
- D) Permanent residual

**562.** Periodicity of MTR is?

- A) 6 years
- B) 12 years
- C) 18 years
- D) 15 years

**563.** In WAP 4, the first letter "W" indicates ?

- A) Passenger loco
- B) AC traction
- C) Series of locomotive
- D) Broad guage

**564.** What is the CT ratio used in QLM circuit of WAP 4 Loco?

- A) 200/5
- B) 250/5
- C) 500/5
- D) 1000/5

**565.** What is voltage & current rating of secondary winding of WAP7 loco transformer?

- A) 1269 V, 1154 A
- B) 1142 V, 1154 A
- C) 1142 V, 1269 A
- D) 1269 V, 1142 A

**566.** Maximum axle load of WAP 7 loco is?

- A) 18.8 ton
- B) 19.5 ton
- C) 20.5 ton
- D) 21.8 ton

**567.** What is the free height of secondary spring used in WAP 7 loco in mm?

- A) 683
- B) 720
- C) 733
- D) 742

**568.** How may IGBTs are used in one traction converter?

- A) 28
- B) 30
- C) 36
- D) None of the above is correct

**569.** Harmonic filter winding used in WAP 7 locomotive is used to eliminate?

- A) $3^{rd}$ harmonic
- B) $5^{th}$ harmonic
- C) $7^{th}$ harmonic
- D) $4^{th}$ harmonic

**570.** At the time of starting a train with WAP 7 loco, distribution of power between bogies?

- A) Equal in both bogies
- B) More in driving cab bogie
- C) More in rear cab bogie
- D) None of the above

**571.** In WAP 7 loco which type of control is used in Line side

- A) Rectifier control
- B) Booster Chopper control
- C) Inverter control
- D) Any of the above

**572.** In VVVF drive, if Speed of a squirrel cage induction motor is more than the rated speed, which statement below is correct

- A) Frequency more than rated
- B) Voltage more than rated
- C) Output torque is less than rated
- D) All of the above

**573.** Range of pressure sensor used to measure transformer oil pressure?

- A) 0-2 bar
- B) 0- 4 bar
- C) 0-3 bar
- D) none of the above

**574.** What is the purpose of bender card?

- A) For smooth operation of pneumatic brake
- B) To apply pneumatic brake in case regenerative brake fails
- C) For overcharging of locomotive
- D) None of the above

**575.** Store at ELS/HWH is a?

- A) Ordinary store
- B) Custody store
- C) Emergency store

  D) Imprest store

**576.** LC circuit provided parallel to DC link capacitor in WAP 7 loco traction converter is tuned at?

- A) 50 Hz
- B) 100 Hz
- C) 150 Hz
- D) 200 Hz

**577.** Maximum time limit for a SF-5 enquiry is?

- A) 30 days
- B) 60 days
- C) 90 days
- D) 180 days

**578.** Closing time of VCB is normally found?

- A) Within 100 ms
- B) 100- 200 ms
- C) 200-400 ms
- D) More than 400 ms

**579.** In HOG fitted loco, Main purpose of two 110 Volt control pins in IV coupler is?

- A) To detect any fault in power car
- B) To detect any fault in Hotel load converter
- C) To check the continuity of entire circuit
- D) Those pins are not required & can be removed

**580.** For protection of small auxiliary motor which type of MCB used?

- A) Type B
- B) Type C
- C) Type D
- D) Type K

**581.** What type of coolant in traction converter of IGBT based locomotive should not be used?

- A) Organic acid technology
- B) Hybrid organic acid technology
- C) Inorganic acid technology
- D) Non of the above

**582.** Which wire is used to rewind the traction motor used in WAP 7 locomotive?

- A) Nickel coated copper wire
- B) Corona copper wire
- C) Normal copper wire
- D) Zirconium copper wire

**583.** What is the RGCP setting in WAP 4 loco?

- A) 8 – 10.5 kg
- B) 8 – 10.0 kg
- C) 8.5 – 10.0 kg
- D) 8.0 – 9.5 kg

**584.** What is the charging voltage of battery in WAP4 loco?

- A) 110 V
- B) 105 V
- C) 115 V
- D) 100 V

**585.** For dead movement of WAP 7 loco cock no. 74 to be kept at?

- A) Open
- B) close
- C) Any position
- D) None of the above

**586.** Limit of MR without brake air leakage?

- A) 250 gm/5 min
- B) 1500 gm/5 min
- C) 1000 gm/5 min
- D) 700 gm/5 min

**587.** In WAP 7 loco how many power cable connected in one Traction motor

- A) 2
- B) 3
- C) 4
- D) None of the above

**588.** Sander is provided in locomotive to prevent?

- A) Automatic movement of loco
- B) Wheel slipping
- C) Wheel skidding
- D) None of the above

**589.** Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

**590.** BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

**591.** Standard piston stroke in WAP-7 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

**592.** Total clearance between brake block & wheel face in WAP-4 loco is?

- A) 10 mm
- B) 15 mm
- C) 20 mm
- D) None of the above

**593.** What is QLM relay?

- A) Aux circuit earthing relay
- B) Main circuit earthing relay
- C) Traction motor overvoltage relay
- D) High voltage overcurrent relay

**594.** If HMCS 2 on position 2 then which motor is isolated?

- A) TM 4
- B) TM 1
- C) TM 5

D) TM 2

**595.** PHGR working can be checked after which notch?

- A) 4
- B) 5
- C) 6

  D) 1

**596.** If any rotary switch is on position 2, then?

- A)  Motor & relay isolate
- B) Motor & relay in service
- C) Motor is isolate & relay service
- D) Motor in service & relay isolate

**597.** Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

**598.** VCD can not be acknowledged by?

- A)  Paddle switch
- B)  Notch through MP
- C) BPR switch
- D) HORN

**599.** During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?

- A) Run
- B) FS
- C) Release
- D) Emergency

**600.** How many acalathan ring used in WAP7 loco?

- A) 1
- B) 2
- C) 4

  D) 8

**601.** Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

**602.** For proper isolation of OHE what is to be ensured?

- A) Opening of isolator
- B) Connection of discharge rod
- C) Both A & B
- D) Anyone one among A & B is sufficient

**603.** Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?

- A) 6 min
- B) 7 min
- C) 8 min
- D) 9 min

**604.** Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?

- A) 90 sec
- B) 100 sec
- C) 120 sec
- D) 200 sec

**605.** For dead movement of WAP 7 loco cock no. 47 to be kept at?

- A) Open
- B) close
- C) Any position

D) None of the above

**606.** Limit of BP air leakage?

- A) 250 gm/5 min
- B) 1500 gm/5 min
- C) 1000 gm/5 min

D) 700 gm/5 min

**607.** In electric locomotives, Hand brake chain is connected with the lever of wheel no.?

- A) 12
- B) 01
- C) 08
- D) 02

**608.** How many position in A9 of WAP4 loco?

- A) 2
- B) 5
- C) 6
- D) None of the above

**609.** Standard piston stroke in WAP-4 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm

  D) 68 to 78 mm

**610.** BP pressure of WAP 7 loco in release position of A9?

- A) 3.5 kg
- B) 4.6 kg
- C) 5.6 kg
- D) 5.0 kg

**611.** Standard piston stroke in WAP-7 loco is?

- A) 78 to 88 mm
- B) 107 to 117 mm
- C) 102 to 119 mm
- D) 68 to 78 mm

**612.** Total clearance between brake block & wheel face in WAP-4 loco is?

- A) 10 mm
- B) 15 mm
- C) 20 mm
- D) None of the above

**613.** What is QOP relay?

- A) Aux circuit earthing relay
- B) Main circuit earthing relay
- C) Traction motor overvoltage relay

  D) High voltage overcurrent relay

**613.** If HMCS 2 on position 3 then which motor is isolated?

- A) TM 4
- B) TM 5
- C) TM 6
- D) All TM in service

**614.** Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?

- A) 5 mm
- B) 3 mm
- C) 6 mm

  D) 8 mm

**615.** If any rotary switch is on position 3, then?

- A) Motor & relay isolate
- B) Motor & relay in service
- C) Motor is isolate & relay service
- D) Motor in service & relay isolate

**616.** Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

**617.** Lowering time pantograph to be adjusted at?

- A) Up to 6 sec
- B) Up to 10 sec
- C) between 5-10 sec
- D) between6-10 sec

**618.** During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?

- A) Run
- B) FS
- C) Release

  D) Emergency

**619.** What is the notch regression time?

- A) 9-11 sec
- B) 10-12 sec
- C) 11-13 sec
- D) 13-15 sec

**620.** Which oil is used in compressor lubrication?

- A) Shell gadus
- B) 460 RR
- C) Servopress 150
- D) Molykot

**621.** What is the voltage level of OHE?

- A) 22.5 KV
- B) 25 KV
- C) 27.5 KV
- D) 30 KV

622. माइक्रोप्रशेसर लोको में यदि दोनो डिसप्ले युनिट जबाब नहीं देता है, तो जॉच करें
In microprocessor loco if both display units are not responding then check
a) CCLSA फ्युज/fuse b) CCCPU फ्युज/fuse c) CCPT फ्युज/fuse d) सभी /All above.

623. रिआस्टेटिक ब्रेकिंग का कन्टैक्टर है / Contactor of rheostatic braking
a) C145 b) C108 c) SWC d) कोई नहीं / None

624.. नो टेन्सन् के कारण यदि DJ ट्रिप करें, तो नॉच रिग्रेस करने का माध्यम -
If DJ trips due to no tension then, notch will regress through
a) Q51 b) Q52 c) Q50 d) QRS

625. निम्न में से कौन, लोको की सेफटी आइटम नहीं है-
Which is not the safety item of loco
a) बफर/Buffer b) फ्लैशर लाइट/Flasher light c) हॉर्न d) कैब हीटर/Cab Heater

626. LSCHBA बत्ती के सिग्नलिंग रिले है/ The signaling relay of LSCHBA lamp is
a) QV60 b) QV62 c) QV61 d) QV64

627. HS4 प्रेशर कि सेटिंग है/ Setting of HS4 pressure is-
a) 8.5-10kg/$cm^2$ b) 8-10kg/$cm^2$ c) 8-9.5kg/$cm^2$ d) 8.5-10.5 kg/$cm^2$

628. CCPT फ्युज का रेटिंग है / The rating of CCPT fuse is-
a) 16A b) 35A c) 6A d) कोई नहीं/None

629. कन्टैक्टर MPV-2 है / Contactor MPV-2 is-
a) C-111 b) C-121 c) C-101 d) कोई नहीं/None

| | | |
|---|---|---|
| 630. | लोको में चक्के हरकने का अधिकतम सीमा है-<br>Maximum skidding limit of wheel in loco is<br>a) 5 mm b) 50 cm c) 50 mm d) 5.5 mm | I |
| 631. | यदि अक्जिलियरी मोटर काम नहीं करे, तो जॉच करें फ्यूज-<br>If all auxiliary motors are not working then check fuse<br>a) CCA b) CCLSA c) CCRA d) कोइ नहीं/ None | J |
| 632. | जब सेंट्रल इलेक्ट्रॉनीक्स का तापमान $70^0$C से अधिक होता है, निम्न में से जलेगा-<br>When temperature of central electronics goes beyond $70^0$C, which will glow:-<br>a) LSAF b) LSOV c) LSDJ d) LSCE | K |
| 633. | यदि रिले QRS डि-इनर्जाइज होता है तो / If relay QRS is de-energised then<br>a) DJ ट्रिप करेगा b) नॉच नहीं बढ़ेगा c) MCP काम नहीं करेगा d) कोई नहीं<br>a) DJ will trip b) Notch will not progress c) MCP will not work d) None | L |
| 634. | RS प्रेसर पैदा करते वक्त निम्न कॉक की स्थिति होगी-<br>While developing RS pressure, the position of the following cocks will be-<br>a) R-1 बंद/close RAL बंद/ close b) R-1 खुला/ open RAL खुला / open c) R-1 बंद/ close RAL खुला / open d) R-1 खुला/ open RAL बंद/ close | M |
| 635. | यदि लोको कि दोनो कैब में BP ओवर चर्जिंग होता है, तो संभावित दोष होगा-<br>If BP overcharging takes place in both cab of the loco, the likely fault is in<br>a) $C_2$ RV b) अतिरिक्त/Additional $C_2$ RV c) कम्प्रेशर कि क्षमता/ d) $SA_9$ | N |
| 636. | स्टैटिक कन्वर्टर लोको में QCVAR (आर्नो फिटेड लोको) रिले के स्थान पर कौनसी रिले होती है-<br>Corresponding relay in static converter loco to QCVAR in Arno fitted loco is--<br>a) QSVM b) Q-SIT c) Q-CON d) कोई नहीं / None | O |
| 637. | तीन फ़ेज लोको में लाइन कन्वर्टर परवर्तित कर सकता है-<br>In 3 phase loco line converter can convert-<br>a) AC से/to DC b) DC से/to AC c) दोनो ही/ Both d) कोई नहीं / None | P |
| 638. | RPS उपयोग किये जाता है / RPS is used for<br>a) To stop TM over current. b) For over current of TFP winding.<br>TM औवर करेंट रुक ने के लिए। TFP वाइंडिंग ओवर करेंट के लिए<br>c) To limit the TM ripple current. d) To help field weakening.<br>TM कि रिपल् करेंट को सीमित करने के लिए फील्ड वीकेनिंग की सहायता के लिए | Q |
| 639. | यदि QVCD इनर्जाइज अवस्था में वेज किया जाता है, साथ ही IP वल्व आइसोलेट है, तो-<br>If QVCD is wedged in energized condition, with IP valve isolated-<br>a) लोको सामान्य काम करेगा/Loco will work normal b) DJ बंद नहीं होगा।/DJ will not close.<br>c) नॉच नहीं बढ़ेगा/Notch will not progress. d) इस में से कोई नहीं।/None of these. | R |
| 640. | तीन फेज लोको में स्पीडोमिटार को आइसोलोट करने के लिए MCB को बन्द करें।<br>To isolate the speedometer of 3 phase locomotive turn off MCB<br>a) 69.62 b) 69.71 c) 127.92 d) 127.1/2 | S |
| 641. | SIV एवं MPCS लगा लोको में कितने OHE वोल्टेज प्राप्त किया जा सकता है?<br>How many readings of OHE voltage can be obtained in a loco fitted with SIV and MPCS.<br>a) 1 b) 2 c) 3 d) | T |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 642. | तीन फेज लोको में कन्ट्रोल इलोक्ट्रनिक्स का स्वीच OFF/ON करने के लिए किसि एक का जुररत नहीं है। U | | | | | | | | |
| | Which one is not required for switching OFF/ON of control electronics in 3 phase locos. | | | | | | | | |
| | a) | VCB | b) | पैन्टोग्राफ नीचे करें | c) | IP वल्व का आइसोलेट करें | d) | BL चाभी के बन्द करें | |
| | a) | Open VCB | b) | Lower Pantograph | c) | Isolate IP valve | d) | Turn BL key to OFF | |
| 643. | QSIT रिले इनर्जाइज होने कि कारन-/ QSIT relay may be energized due to | | | | | | | | V |
| | a) | इन्टरनॉल फॉल्ट | b) | एक्सटरनॉल फॉल्ट | c) | कोई नहीं | d) | दोनो हीं | |
| | a) | Internal fault | b) | External fault | c) | None | d) | Both | |
| 644. | भू-दोष बाइ-पास मोड में SIV कार्य कर सकता है- | | | | | | | | W |
| | The SIV can work in earth fault bypass mode for- | | | | | | | | |
| | a) | 1 मिनट/ | b) | 10 मिनट/ minute | c) | 45 मिनट/ minute | d) | 60 मिनट/ minute | |
| 645. | MPCS को कार्यरत रखने के लिए न्युनतम बैट्री वोल्टेज होना चाहिए- | | | | | | | | X |
| | The minimum BA voltage required for working of MPCS is- | | | | | | | | |
| | a) | 85V | b) | 90V | c) | 95V | d) | 100V | |
| 646. | OHE तार के उपर पैन्टोग्राफ पैन कि संपर्क वल है- | | | | | | | | Y |
| | The contact force of pantograph pan on OHE wire is- | | | | | | | | |
| | a) | 5 किजि/ Kg. | b) | 6 किजि/ Kg. | c) | 7 किजि/ Kg. | d) | 8 किजि/ Kg. | |
| 647. | HCHBA कि पोजिसन III अवस्था में क्या संकेत देंगे? | | | | | | | | Z |
| | What is indicated when HCHBA is on position III | | | | | | | | |
| | a) | CHBA तथा एममीटर दोने कार्य करें | | | b) | CHBA कार्य करें तथा एममीटर बाइबास | | | |
| | a) | CHBA and Ammeter both in service | | | b) | CHBA in service and Ammeter by passed | | | |
| | c) | CHBA तथा एममीटर दोनो असमर्थ | | | d) | CHBA असमर्थ | | | |
| | c) | CHBA and Ammeter both out of service | | | d) | CHBA out of service | | | |
| 648. | कुछ लोकोमोटिव में BLSI को इसके ऑपर इन्टरलॉक द्वारा बदल किया गया है। | | | | | | | | A1 |
| | In some locomotives BLSI has been replaced by the upper interlock of | | | | | | | | |
| | a) | QV-60 | b) | QV-61 | c) | QV-63 | d) | QV-64 | |
| 649. | Q119 रिले का टाइम डिले सेटिंग हे- /Time delay setting of Q119 relay is- | | | | | | | | A2 |
| | a) | 5 सेकंड/ sec. | b) | 10 सेकंड/ sec. | c) | 15 सेकंड/ sec. | d) | 16 सेकंड/ sec. | |
| 650. | रिजेनरटिव ब्रेकिंग मोड के समय मोटर कन्वर्टर बदलते है- | | | | | | | | A3 |
| | During regenerative braking mode motor converter converts | | | | | | | | |
| | a) | AC से/to DC | b) | DC से/to AC | c) | दोनो ही/ Both | d) | कोई नहीं / None | |
| 651. | स्टैटिक कन्वर्टर लोको मों MVRF कि कन्टैक्टर है- / In a Static Converter Loco contactor of MVRF is | | | | | | | | A4 |
| | a) | C-107 | b) | C-108 | c) | C-105 | d) | कोई नहीं / None | |
| 652. | QE एक औवर करेंट रिले है - / QE is over current relay for | | | | | | | | A5 |
| | a) | ATFEX | b) | TM | c) | TFP | d) | कोई नहीं / None | |

बहुविकल्प प्रश्नः Optional Questions

653. ट्युइन बीम हेड लाइट को निम्न में से सप्लाइ मिलता है- A
Twin Beam Head light gets supply from
a) बैट्री/Battery b) आर्नो/ARNO c) TFP d) कोई नहीं / None

654. जब बैट्री को चालु किया जाता है, तो निम्न में से सर्वप्रथम कौनसी रिले पिक अप करेगा? B
When battery is put ON, which relay will pick up first of all?
a) Q44 b) Q45 c) Q118 d) Q46

655. किसी लोड में पीछे लगे हुए लोकों को चलाते वक्त निम्न में से इस स्विच का प्रयोग होता है- C
While pushing the load from the back, which switch is used in the loco:-
a) ZPRD b) ZLFW c) ZBAN d) ZLDD

656 डेड लोको में निम्नलिखित न्युमेटिक कॉक की स्थिति होगी - D
What will be the position of pneumatic cocks in dead loco:-
a) 47 खुला / open b) 47 बंद/ close c) 47 खुला / open d) 47 बंद/ close
74 बंद/ close 74 खुला / open 74 खुला / open 74 बंद/ close

657. निम्न में से कौन लोको की सेफटी आइटम् नहीं है/ Which is not the safety item of loco- E
a) बफर b) फ्लैसर लाईट c) कैब फैन d) कोई नहीं
a) Buffer b) Flasher light c) Cab fan d) None

658. एयर ब्रेक सिस्टम् में ब्रेक सिलिंडर प्रेशर 3.8 केजी वर्ग सेमी तक पहुँचेगा जबः F
Brake cylinder pressure will reach 3.8 kg/cm$^2$ in air brake system when
a) BP 3.5 केजी वर्ग सेमी तक घटता है
BP is reduced to 3.5 kg/cm$^2$
b) BP 0 केजि वर्ग सेमी तक घटता है
BP is reduced to '0'
c) इमरजेंसी ब्रेक प्रयोग किया जाता है
Emergency brake is applied
d) उपरोक्त सभी
All of the above.

659. हिताची ट्रैक्शन मोटर में अधिकतम शूरुआती करेंट है- G
Maximum starting current in Hitachi Traction Motor
a) 900A b) 1000A c) 1100A d) 1200A

660. SIV लोको में मैन प्रसेसर कंन्ट्रोल युनिट के बिना कौन सा रिले बदला नहीं जाता? H
Which relay is NOT replaced in SIV locos without main processor control unit?
a) Q30 b) QCVAR c) QOA d) Q100

661. $WAG_9$ लोको में पार्किंग ब्रेक का प्रावधान होता है व्हील संख्या - I
In $WAG_9$ locomotive parking brake is provided on wheel nos.
a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None

662. निम्न में से किसकी वजह से Q51 उर्जित हो सकती है। J
Because of one of the following, Q51 may get energized-
a) Q50 b) Q52 c) PR-2 d) ZSMGR

663 यदि LSRSI लैम्प का LED फ्युज अवस्था में हो तो लोको पॉयलट को ध्यान देना चाहिए- K
If LED for LSRSI lamp is in fused condition, loco pilot should keep a watch on-
a) टेल-टेल फ्युज के प्रति/Tell-Tale Fuse b) RSI का HRC फ्युज के प्रति / HRC Fuse of RSI
c) TM करेंट को केवल 600A तक सीमित रखें/Restrict TM current to 600 A only d) MVSI-1 एवं 2 के कार्य के प्रति/ Working of MVSI 1 & 2

664 एयर ब्रेक सिस्टम् में ट्रेन ब्रेक लगना सफल करने के लिए BP प्रेशर घटने का न्यूनतम दर होना चाहिए- **L**
For successful application of train brake in air brake system, the minimum rate of BP pressure reduction should be

a) 6 सकंड में 600 ग्राम b) 10 सकंड में 600 ग्राम c) 1 मिनट में 600 ग्राम d) कोई नहीं / None

665. माइक्रोप्रशेसर लोको में यदि दोनो ही डिसप्ले युनिट जवाब नहीं देता है तो निम्न में से जाँच करें **M**
In microprocessor loco if both Display units are not responding then check-
a) CCBA फ्युज/fuse b) CCINV फ्युज/fuse c) CCCPU फ्युज/fuse d) सभी को/All above.

666. यदि QVCD इनर्जाइज अवस्था में वेज किया जाता है, साथ ही IP वल्व आइसोलेट है, तो- N
If QVCD is wedged in energized condition, with IP valve isolated-
a) लोको सामान्य काम करेगा/Loco will work normal b) DJ बंद नहीं होगा।/DJ will not close.
c) नॉच नहीं बढ़ेगा/Notch will not progress. d) इस में से कोई नहीं।/None of these.

667 BPFA लगा होता है / BPFA is provided in O
a) पैनेल A में / Panel A b) पैनेल B में / Panel B
c) पैनेल C में / Panel C d) पैनेल D में / Panel D

668. स्टैटिक कंन्वर्टर में यदि कोई भूल वार्ता है, तो DJ ट्रिप करने की माध्यम- P
If any fault message in static converter, DJ will trip through
a) QCON b) QSIT c) QSVM d) सभी/ All

669 दोनो कैब हीटर एवं कैव फैन बंद करना है किंतु नॉच रिपीटर को चालु अवस्था में रखना है, तो HRAVT को निम्न अवस्था में रखना होगा- Q
To isolate both cab heaters and cab fans but to keep notch repeater (NR) in service, keep HRAVT in position
a) 0 b) 1 c) 2 d) 3

670. लोको में AFI वास्तविक रूप से दिखाता है- / The AFI in a locomotive actually shows:- R
a) लोड में लिकेज है
The leakage in the load
b) लोको एवं लोड में लिकेज है
The leakage in the load and loco.
c) BP प्रेशर चर्जिंग का दर
The rate of charging BP pressure/
d) MR प्रेशर चर्जिंग का दर
The rate of charging MR pressure.

671. अगर CCRA फ्युज बार-बार गलता है, कहाँ पर दोष हो सकता है- **S**
If CCRA fuse melts repeatedly, problem (fault) may be at:
a) कैब फैन b) कैब हीटर c) ट्रैक्शन मोटर d) TF ऑयल पांप मोटर
a) Cab Fan b) Cab heater c) TM d) TF oil pump motor

672. CCINV फ्युज की क्षमता है / Capacity of CCINV fuse is - T
a) 6A b) 15A c) 12A d) कोई नहीं / None

673. जब सेंट्रल इलेक्ट्रॉनीक्स का तापमान $70^0$C से अधिक होता है, निम्न में से जलेगा- U
When temperature of central electronics goes beyond $70^0$C, which will glow:-
a) LSAF b) LSOV c) LSDJ d) LSCE

674. यदि रिले QRS डि-इनर्जाइज होता है तो / If relay QRS is de-energised then V
a) DJ ट्रिप करेगा b) नॉच नहीं बढ़ेगा c) MCP काम नहीं करेगा d) कोई नहीं
a) DJ will trip b) Notch will not progress c) MCP will not work d) None

675. RS प्रेसर पैदा करते वक्त निम्न कॉक की स्थिति होगी- W
While developing RS pressure, the position of the following cocks will be-
a) R-1 बंद/close b) R-1 खुला/ open c) R-1 बंद/ close d) R-1 खुला/ open
RAL बंद/ close RAL खुला / open RAL खुला / open RAL बंद/ close

676. यदि लोको कि दोनो कैब में BP ओवर चर्जिंग होता है, तो संभावित दोष होगा- X

If BP overcharging takes place in both cab of the loco, the likely fault is in

a) $C_2$ RV b) अतिरिक्त/Additional $C_2$ RV c) कम्प्रेशर कि क्षमता/ Compressor capacity d) $SA_9$ वल्व/ valve

677. यदि नो टेनशन के चलते DJ ट्रिप करें, तो नॉच निम्न माध्यम से रिग्रेस करेगा- Y

If DJ trips due to no tension then notch will regress through

a) Q51 b) Q52 c) Q50 d) QRS

678. रियॉस्टैटिक ब्रेकिंग की कॉन्टैक्टर है । / Contactor of rheostatic braking- Z

a) C145 b) C108 c) SWC d) कोई नहीं /None.

**679.** स्टैटिक कन्वर्टर लोको में QCVAR (आर्नो फिटेड लोको) रिले के स्थान पर कौनसी रिले होती है- **A1**

Corresponding relay in static converter loco to QCVAR in Arno fitted loco is--

a) QSVM b) Q-SIT c) Q-CON d) कोई नहीं / None

680. तीन फ़ेज लोको में, ट्रक्शन् मोड के समय, लाइन कन्वर्टर परवर्तित करता है- B1

In 3 phase loco, during traction mode, line converter can convert-

a) AC से/to DC b) DC से/to AC c) दोनो ही/ Both d) कोई नहीं / None

681. RPS उपयोग किये जाता है / RPS is used for C1

a) TM औवर करेंट रुक ने के लिए। Preventing TM over current.

b) TFP वाइंडिंग ओवर करेंट के लिए TFP winding overcurrent.

c) TM कि रिपल् करेंट को सीमित करने के लिए To limit ripple current in TM.

d) फील्ड वीकेनिंग की सहायता के लिए To assist field weakening.

682. यदि QVCD इनर्जाइज अवस्था में वेज किया जाता है, साथ ही IP वल्व आइसोलेट है, तो- D1

If QVCD is wedged in energized condition, with IP valve isolated-

a) लोको सामान्य काम करेगा/Loco will work normal

b) DJ बंद नहीं होगा।/DJ will not close.

c) नॉच नहीं बढ़ेगा/Notch will not progress.

d) इस में से कोई नहीं।/None of these.

683. तीन फेज लोको में स्पीडोमिटार को आइसोलोट करने के लिए MCB को बन्द करें। E1

To isolate the speedometer of 3 phase locomotive turn off MCB

a) 69.62 b) 69.71 c) 127.92 d) 127.1/2

684. SIV एवं MPCS लगा लोको में कितने OHE वोल्टेज प्राप्त किया जा सकता है? F1

How many readings of OHE voltage can be obtained in a loco fitted with SIV and MPCS.

a) 1 b) 2 c) 3 d)

685, तीन फेज लोको में कन्ट्रोल इलोक्ट्रनिक्स का स्वीच OFF/ON करने के लिए किसि एक का जुररत नहीं है। G1

Which one is not required for switching OFF/ON of control electronics in 3 phase locos.

a) VCB खुलें b) पैन्टोग्राफ नीचे करें c) IP वल्व का आइसोलेट करें d) BL चाभी के बन्द करें

a) Open VCB b) Lower Pantograph c) Isolate IP valve d) Turn BL key to OFF

686. QSIT रिले इनर्जाइज होने कि कारन- H1

QSIT relay may be energized due to

a) इन्टरनॉल फॉल्ट b) एक्सटरनॉल फॉल्ट c) कोई नहीं d) दोनो हीं

a) Internal fault b) External fault c) None d) Both

687. भू-दोष बाइ-पास मोड में SIV कार्य कर सकता है- I1

The SIV can work in earth fault bypass mode for-

a) 1 मिनट/ minute b) 10 मिनट/ minute c) 45 मिनट/ minute d) 60 मिनट/ minute

688. MPCS को कार्यरत रखने के लिए न्युनतम बैट्री वोल्टेज होना चाहिए- J1

The minimum BA voltage required for working of MPCS is-

a) 85V b) 90V c) 95V d) 100V

689. OHE तार के उपर पैन्टोग्राफ पैन कि संपर्क वल है- K1

The contact force of pantograph pan on OHE wire is-

a) 5 किजि/ Kg. b) 6 किजि/ Kg. c) 7 किजि/ Kg. d) 8 किजि/ Kg.

690. HCHBA कि पोजिसन III अवस्था में क्या संकेत देंगे? L1

What is indicated when HCHBA is on position III

a) CHBA तथा एममीटर दोने कार्य करें b) CHBA कार्य करें तथा एममीटर बाइबास c) CHBA तथा एममीटर दोनो असमर्थ d) CHBA असमर्थ

a) CHBA and Ammeter both in service b) CHBA in service and Ammeter by passed c) CHBA and Ammeter both out of service d) CHBA out of service

691. कुछ लोकोमोटिव में BLSI को इसके ऑपर इन्टरलॉक द्वारा बदल किया गया है। M1

In some locomotives BLSI has been replaced by the upper interlock of

a) QV-60 b) QV-61 c) QV-63 d) QV-64

692. Q119 रिले का टाइम डिले सेटिंग हे- N1

Time delay setting of Q119 relay is-

a) 5 सेकंड/ sec. b) 10 सेकंड/ sec. c) 15 सेकंड/ sec. d) 16 सेकंड/ sec.

693. QTD-105 कॉयेल में भू-दोष को कारण निम्न में से एक गल (मेल्ट) सकता है। O1

Earth fault in the coil of QTD-105 causes melting of -

a) सी.सी.बी.ए b) सी.सी.पी.टी c) सी.सी.डी.जे d) सी.सी.ए

a) CCBA b) CCPT c) CCDJ d) CCA

694. WAG7 लोको में QD-2 निम्न के बीच लगा होता है- P1

Relay QD-2 in WAG7 is connected between-

a) TM2-TM3 b) TM3-TM4 c) TM4-TM5 d) TM5-TM6

695. यदि QLM ड्रॉप करे तथा ट्रांस्फार्मार के चारों तरफ तेल फैला हुआ मिले तो लोको पॉयलट को चाहिएः Q1

If QLM relay is dropped and found oil spilled over from transformer LP should

a) लोको के फेल करे तथा शट डाउन करे। Fail the locomotive and shut down

b) QLM को री-सेट करे तथा DJ बंद करे। Reset QLM and close DJ

c) QLM को री-सेट करे तथा DJ बंद करे यदि TFP आयल की सतह सही हो।
Reset QLM and close DJ if TFP oil level is OK

d) अग्न शामक यंत्र प्रयुक्त करे।
Charge fire extinguisher.

696. DBR अत्यधिक प्रभावी होता है- R1
The DBR is most effective-
a) उच्च चाल पर At high speed b) निम्न चाल पह At low speed c) चाल पर निर्भरता नहीं Not dependent on speed d) कोई भी नहीं/None

45 LSB बत्ती के सिग्नलिंग रिले है/ The signaling relay of LSB lamp is S1
a) QV60 b) QV62 c) QV63 d) QV64

46 QF रिले करंट को सीमित करता है- / QF relay limits the current- T1
a) RF में बहाव/Flowing in RF b) TM के फील्ड सर्किट में बहाव/Flowing through field circuit of TM.
c) RSI-1 में बहाव/Flowing through RSI-1 d) RSI-2 में बहाव/Flowing through RSI-2

697. $WAG_5$ लोको में पार्किंग ब्रेक का प्रावधान होता है व्हील संख्या - U1
In $WAG_5$ locomotive parking brake is provided on wheel nos.
a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None

698. यदि नो टेन्शन के चलते DJ ट्रिप करें, तो नॉच निम्न माध्यम से रिग्रेस करेंगे-
If DJ trips due to no tension then notch will regress through- V1
a) Q51 b) Q52 c) Q50 d) QRS

699. QPDJ की सही सेटिंग है / Correct setting of QPDJ is - W1
a) 4.5kg/$cm^2$ खुला/Open, 5.5kg/$cm^2$ बंद/close,
b) 4.5kg/$cm^2$ बंद/close, 5.5kg/$cm^2$ खुला/Open
c) 4.5kg/$cm^2$ खुला/Open, 6.8kg/$cm^2$ बंद/close,
d) 5.5kg/$cm^2$ खुला/Open, 6.5kg/$cm^2$ बंद/close,

700. अगर CCRA फ्युज बार-बार गिलता है, कहाँ पर दोष हो सकता है- X1
If CCRA fuse melts repeatedly, problem (fault) may be at-
a) कैब फैन/Cab fan b) कैब हीटर/Cab heater c) ट्रेक्शन मोटर/TM d) ट्रन्सफरमर अयेल पम्प मोटर/TF oil pump motor.

701. QSVM में 2" देरी का कार्य है- / Function of 2" delay in QSVM is- Y1
a) SIV के समुचित चालु होने को सुनिश्चित करना।
To ensure proper starting of SIV
b) ऑक्जीलियरी कान्टैक्टर के समुचित बढ होने को सुनिश्चत करना।
To ensure proper closing of auxiliary contactors
c) आउटपुट वोल्टेज को अनुकुलन के सुनिश्चत करना।
To ensure building up of the output voltage
d) शुरूआती करंट धक्कामुक्की(इनरश) को सीमित करना।
To limit the inrush current at starting.

702. GR आघा नॉच प्रोटेक्शन रिले है- Z1
The GR half notch protection relay is-
a) Q48 b) Q46 c) Q45 d) Q44

703. C118 कन्टैक्टर कॉएल में भू दोष के कारण निम्न में से एक फ्युज गल (मेल्ट) हो जाएगा। A2
Earth fault in C118 contactor coil causes the following fuse to melt-
a) CCBA b) CCPT c) CCDJ d) CCA

704. LSB का बुझना निम्न एक रिले का इनर्जाइज हैने को इन्डिकेट करता है-
Extinction of LSB indicates energization of - B2
a) Q-48 b) Q-50 c) Q-51 d) QRS

705. लोकोमेटिभ में LT सर्किट को गैज वोल्टेज के विरुद्ध इसके द्वारा रक्षा होता है- C2
LT circuit in locomotive is protected against gauge voltage by-
a) ET-1 b) ET-2 c) LTBA d) QLM

706. MTDJ कॉयेल (VCB) एक- / MTDJ coil (VCB) is a - D2
a) DJ क्लोजिंग कॉयेल/DJ closing coil b) DJ होल्डिंग कॉयेल।/DJ holding coil.
c) DJ ट्रिपिंग कॉयेल।/DJ tripping coil. d) DJ होल्डिंग एवं ट्रिपिंग कॉयेल। /DJ holding and tripping coil.

707. यब SIV में कोई दोष है, DJ निम्न में से एक द्वारा ट्रिप होगा- E2
Whenever there is a fault in the SIV, DJ is tripped by-
a) QSVM b) QCVAR c) QSIT d) Q-118

708. यदि लोको बंद है किन्तु सभी पायलट लैम्प जल रहा है, तो जाँच करें- F2
If loco closed but all pilot lamps are not glowing then check-
a) CCDJ एवं CCPT b) CCBA एवं CCLS c) CCLS एवं अतिरिक्त CCBA d) CCDJ एवं CCA
a) CCPT and CCDJ b) CCBA and CCLS c) CCLS and addl CCBA d) CCDJ and CCA

709. तीन फेज लोको में PTDC जुड़ा हुया है- / PTDC in three phase loco is linked with - G2
a) ब्रेक सिस्टम् b) पैन्टोग्राफ c) DC-DC कन्वार्टर d) फ्युज पैनेल
a) Brake system b) Pantograph c) DC-DC converter d) Fuse panel

710. MU आप्रेशन में यदि अंतिम लोको के CHBAफेल करे, तो पहले लोको की निम्नलिखित लैम्प जलेगा-
In MU operation if CHBA of rear loco fails, the following lamps will glow in front loco- H2
a) केवल LSCHBA b) LSCHBA एवं LSOL c) केवल LSOL d) LSDJ, LSCHBA एवं LSOL.
a) Only LSCHBA b) LSCHBA & LSOL c) Only LSOL d) LSDJ, LSCHBA and LSOL.

711. EEC की सफल आप्रेशन के लिए MP को रखना है- I2
For successful operation with the EEC, MP should be kept at-
a) 0 b) N c) + d) कँही भी। /Anywhere.

712. आप्रेशन _____ में ट्रिपिंग होगा, यदि ब्लोयर कन्टैक्टर बंद नहीं किया गया। J2
Tripping will take place in operation _____ if blower contactors are not closed.
a) IA b) IB c) O d) कोई नहीं /None of these.

713. एकक ABB लोकोमोटिभ में काम करते समय यदि ZBAN स्वीच ऑन करें तो- L2
If ZBAN switch is made 'ON' while working with single ABB locomotive-
a) कोइ असुविधा नहीं होगीं। b) DJ ट्रिप करेगा। c) BP '0' में ड्रॉप करेगा। d) MR '0' में ड्रॉप करेगा।
a) No trouble will occur b) DJ will trip c) BP will drop to '0' d) MR will drop to '0'.

सही उत्तर दिजीए: Write the correct answer

714. WAG7 लोको में पर्किंग ब्रेक का प्रावधान निम्न चक्के में रहता है।
Parking brake has been provided on wheel no. in WAG7 loco-
a) 1,4,5,8 b) 2,6,7,11 c) 2,5,8,12 d) कोई नहीं / None

715. यदि सभी पॉयलट बत्ती नहीं जले तो निम्न फ्युज को जाँच करें-
If all pilot lamps are not glowing then check fuse
a) CCBA b) CCLS c) CCA d) CCDJ

716. CCINV फ्युज की रेटिंग है- /The rating of CCINV fuse is

a) 16A b) 35A c) 6A d) कोई नहीं/None

717. WAG7 लोको में QD सेटिंग है / QD setting WAG7 loco is

a) 125 Amp b) 160 Amp c) 90 Amp d) 140 Amp

718. कैब हीटर के लिए निम्न में से कौन स्विच है?

Which of the following switch is for Cab Heater?

a) BLRA b) BLPR c) BLLF d) BLLM

719. सार्ज वोल्टेज पर कंट्रोल सर्किट में क्या संरक्षण है?

What is the protection of control circuit against surge voltage?

a) Fuse b) LTBA c) QLA d) कोई नहीं/None

720. 1/100 ग्रेडियंट में WAG7 लोको ____ टन लोड खींच सकता है।

WAG7 loco can haul ---- ton load on 1/100 gradient

a) 4738 टन/Tons b) 3600 टन / Tons c) 1700 टन / Tons d) 3002 टन / Tons

721. अधिकृत ब्लॉक सेक्शन में रिलिफ ईंजन/ट्रेन को आगे बड़ाने के लिए प्राधिकार का फॉर्म संख्या क्या है-

What is the form number of Authority to Proceed for Relief Engine/Train into an occupied block section.

a) T/A 602 b) QPT 27 c) T/369(3b) d) T/A 409

722. रियॉस्टैटिक ब्रेकिंग का कन्टैक्टर है- / Contactor of Rheostatic braking

a) C145 b) C108 c) SWC d) कोई नहीं/None

723. RGCP की सेटिंग है/ Setting of RGCP is-

a) 8.5-9.5 kg/cm$^2$ b) 8.0-9.5 kg/cm$^2$ c) 8.0-10 kg/cm$^2$ d) सभी / All.

724. नो टेनसन के समय DJ ट्रिप करेगा निम्न के माध्यम से

DJ trips in case of no tension on line through

a) Q51 b) Q52 c) Q50 d) Q30

725. यदि रिले QRS डि-इनर्जाइज होता है, तो- / If relay QRS is de-energized then-

a) DJ ट्रिप करेगा DJ will trip b) नॉच नहीं बढ़ेगा Notch will not progress c) MCP काम नहीं करेगा MCP will not work d) कोई नहीं/None

726. खालि BCN टाइप वैगन ---- गति तक चलने के लिए फीट है

Empty BCN type wagons are fit for speeds up to

a) 100 Kmph b) 80 Kmph c) 65 Kmph d) 40 Kmph

727. RB के समय MP को पहले रखना है –

At the time of RB, MP should be placed first on

a) P b) N c) + d) कोई नहीं/None

728. लोके में बैट्री का न्युनतम वोल्टेज है/Minimum voltage of battery in locomotive is

a) 110V b) 90V c) 85V d) 380V

729. यदि अक्जिलियरी पावर सर्किट में आर्थ फॉल्ट है, तो कौन सा रिले इनर्जाइज होगा?

Which relay gets energized in case of earth fault in Auxiliary Power Circuit?

a) QLM b) QLA c) QOP d) QOA

730. मर्कर लाईट के लिए निम्न में से कौन स्विच है?

Which of the following switch is for Marker Light?

a) BLRA b) BLPR c) BLLF d) BLLM

731. तीन फ़ेज लोको में जब सेंट्रल इलेक्ट्रनीक्स का तापमान $70^0$ से अधिक होता है, निम्न में कौन जलेगा?

In three phase loco, when temperature of central electronics goes beyond $70^0$C, which will glow?

a) LSAF b) LSOV c) LSDJ d) LSCE

732. WAG5(हिताची) लोको एक यात्रीवाही ट्रेन के साथ जुडा है एवं इसके चालक कैब के स्पीडोमीटर कार्य नहीं कर रहा है, कितनी गति से इस ट्रेन को चलाना चाहिए जाँहाँ कोइ स्पीड रेस्ट्रिक्शन नहीं है।
WAG5(Hitachi) Loco is attached to a passenger train and its speedometer in the driving cab is not working. At what speed should the train be run where there is no speed restriction on the track.
a) 105 Kmph b) 110 Kmph c) 80 Kmph d) 70 Kmph के आस-पास/ Around 70 Kmph

733. क्लोज सर्किट रेक के लिए B श्रेणी डिपो से दिया गया ब्रेक पावर सर्टिफिकेट मान्य है-
Brake Power Certificate of Close Circuit rakes of B category depots is valid for
a) 4500 किमी तक / 4500 Kms. b) 40 दिन तक / 40 days.
c) 3000 किमी तक / 3000 Kms. d) सिर्फ वापसी ट्रिप तक, दिन एवँ किमी को विचीर किए बिनाú / Return trip only, irrespective of days and kilometers.

734. जब सेंट्रल इलेक्ट्रनीक्स का तापमान $70^0$ से अधिक होता है, निम्न में से जलेगा
When temperature of central electronics goes beyond $70^0$C, which will glow
a) LSAF b) LSOV c) LSDJ d) LSCE

735. किसी लोड में पीछे लगे हुए लोको को चलाते वक्त निम्न में से किस स्विच का प्रयोग होता है?
While pushing the load from the back, which switch is used in the loco?
a) ZPRD b) ZLFW c) ZBAN d) ZLDD

736. CCPT फ्युज का रेटिंग है- / Rating of CCPT fuse is
a) 16A b) 35A c) 6A d) कोई नहीं/None

737. डेड लोको में निम्नरिखित न्युमेटिक कॉक का स्थिति होगी-
What will be the position of pneumatic cocks in dead 3 phase loco:-
a) 47 खुला / open 74 बंद/ close
b) 47 बंद/ close 74 खुला / open
c) 47 खुला / open 74 खुला / open
d) 47 बंद/ close 74 बंद/ close

738. BA वोल्टेज OK दिखाता है, परन्तु लोको में कन्ट्रोल सप्लाइ उपलब्ध नहीं, कारण क्या हो सकता है
BA voltage showing OK but control supply is not available in loco, what may be the cause?
a) HBA ऑफ / HBA 'OFF' b) CCBA गलना /CCBA melt.
c) MA MCB ट्रिप हुया /MA MCB tripped. d) सभी / All above.

739. डायनामिक ब्रेकिंग मोड में एफोर्ट निर्भर करता है-
Braking efforts in dynamic braking mode depends on
a) शंटिंग नॉच / Shunting notches b) ट्रेन की भार / Train weight
c) ट्रेन की गति / Train Speed d) लोको की भार / Loco Weight

740. छठे नॉच में ट्रिपिंग का कारण हो सकता है।/ Sixth notch tripping can be caused by
a) C118 b) C145 c) C106 d) C101

741. QV62 निम्न का सिग्नलिंग रिले है-/ QV62 is signaling relay of
a) LSRSI b) LSDJ c) LSB d) LSGR

742. हिटैची टाईप के ट्रैक्शन मोटर कि अधिकतम करेंट लिमिट होता है/
The maximum current limit of Hitachi type Traction motor is -
a) 1100A b) 1200A c) 900A d) कोई नहीं/None

743. कन्टैक्टर MVRF है (लोको में स्टैटिक कन्वर्टर लगा हुया है)
Contactor for MVRF is (static converter fitted loco)

a) C118 b) C106 c) C107 d) कोई नहीं/None

744. निम्न में से कौन EP कांटैक्टर है/Which of the following is EP contactor -
a) C-145 b) C-118 c) CTF-3 d) CGR-1

745. GR के मैन्युअल ऑप्रेशन के समय MP को निम्न आवस्था में रखा जाता है।
At the time of Manual operation of GR, MP should be placed on
a) 0 b) N c) + d) कोई नहीं / None

746. निम्न में से कौन से रिले को वैज करना मना है?
Wedging of which of the following relay is prohibited?
a) Q-44 b) Q-118 c) QRS d) कोई नहीं / None

747. GR के मैन्युअल नियंत्रण के लिए, MP का पोजीशन होना चाहिए-
For manual control of GR, position of MP should be on
a) VE-1, VE-2, CPA,J b) VE-1, VE-2, MCPA,J
c) VE-2, VE-1, CPA,J d) VE-2, VE-1, MCPA,J

748. PV-2 का कॉन्टैक्टर है - / Contactor of PV-2 is -
a) C-145 b) C-108 c) C-121 d) कोई नहीं/None

749. नो टेंशन के कारण DJ निम्न रिले के माध्यम से ट्रिप करेगा
DJ trips in case of NO Tension on line through-
a) Q-51 b) Q52 c) Q50 d) Q30

750. MU परिचालन में GR सिन्क्रोनाइजेशन रिले है/GR synchronizing relay in MU operation is
a) Q49 b) Q50 c) Q51 d) Q52

751. $WAG_5$ लोको में हैण्ड ब्रेक निम्न चक्के में लगता है/Hand Brake in WAG5 loco is applied in Wheel No-
a) 1,4,5,8 b) 2,6,7,11 c) 1,3 d) 2,4

752. जब HMCS-2 को स्थिति(1) में रखतें है, तो निम्न में से कौन मोटर आइसोलेट किया जाता है-
When HMCS-2 is placed on position 1, which motor is isolated?
a 4 b) 5 c) 6 d) कोई नहीं/None
)

753. यदि सभी ऑक्जिलियरी मशीन कार्य न करें तो जाँच करें /If all auxiliary not working then check
a) CCBA b) CCPT c) CCA d) CCLSA

754. यदी MPH काम नहीं करेगा तो / If MPH does not function then

a) ऑप्रेशन-B में DJ ट्रिप करेगा
a) DJ will trip in Opn-B
b) DJ ट्रिप नहीं करेगा
b) DJ will not trip
c) LSCHBAजलेगा और DJ टिप करेगा
c) LSCHBA will glow and DJ will trip
d) ऑप्रेशन-A में DJ ट्रिप करेगा
d) DJ will trip in Opn-A

755. In CO-CO system bogie No. of wheel per bogie is ( ***Three***/Two/Four/Six)

756. AM 92 is a type of ( Compressor/Transformer/ ***Pantograph/***None of these)

757. The bogie of a WAG7 is called (Flexi Coil/Tri-Mount/ ***High Adhesion bogie***/Flxi-Mount)

758. Blower for cooling SL is called (MVMT/***MVSL***/MPH/None of these)

759.Continuous power rating of a WAG7 is ( 4000HP/***5000HP***/6000HP/7000HP)

760.A9 is a (Safety Relay/Pressure Gauge/***Brake Valve/***Gauge)

761.C3W is a (***Distributor Valve***/ Relay Valve/Gauge/Safety Valve)

762.Rectifier is used in Locomotive ( ***To convert AC TO DC***/ To filter AC ripple/To step down the voltage/None of these)

763.Pneumatic Brake system of Locomotive is operated by (Electrical power/ ***Compressed air***/Mechanical system/Electrical & Mechanical both)

764.Traction motor used In conventional Locomotive is (***DC series motor***/AC motor/ DC Shuntmotor/None )

765.Input of a Locomotive Transformer is (1500 V DC/***25 KV AC***/25 KV DC/None)

766.CBC is used in a Locomotive to (***Coupling to the coaches & wagon***/Coupling brake pipe to coaches & wagon/ Coupling electrical Ckt. Of coaches/All of these)

767.SL is used in Locomotive to (convert AC to DC/ ***Filter AC ripple***/arrest the surge voltage/for earthing)

768.Pantograph is operated by (***Pneumatic power***/Electrical power/Mechanical power/None)

769.ARNO Converter is used to ( Convert AC to DC/Convert the polarity of supply/***Convert single phase to Three phase***/Reverse the direction)

770.Number of notches can be obtained in master controller is ( ***32*** /24/16/8)

771. VCD is a device used in Locomotive to (Alert driver from TFP overloading/Alert driver from fire/***Alert driver in every minute to get attention***/None of these)

772.Numbers of Bogie in a Locomotive are (One/Two/Three/***None of these***)

773.SIV is used to (Convert AC to DC/***Convert Single Phase to Three Phase***/Step down the input voltage/None)

774.In Three phase Locomotive the type of Traction Motor is (DC series Motor/AC split phase motor/***AC Three Phase motor***/ DC Shunt Motor)

775.In Three phase Locomotive main Input supply is ( 3 Phase/***1 Phase***/2 Phase/None of these)

776.SA9 brake is applied for (Loco & Coaches/Only Coaches/ ***Only Loco*** / None of these)

777.DC-DC converter is used in a Locomotive for (***Head Light***/ Horn/Wiper/ None of these)

778.Air-Dryer is used in a Locomotive to (Dry air for RSI panel/ Dry air for VCB***/ Dry air for Pneumatic devices***/ Dry air for BA panel)

779.BP pressure in Locomotive is maintained always ( 3.5 kg/sq.cm/10 kg/sq.cm/***5 kg/sq.cm***/6 sq.cm )

780.FP pressure in Locomotive is maintained always ( ***6 kg/sq.cm***/7 kg/sq.cm/5 kg/sq.cm/4 kg/sq.cm/)

781.Numbers of poles in a Locomotive(Conventional) Traction motor is (***6***/4/8/9)

782.Cooling system of Locomotive Transformer is (Air/Water/***Oil/***None of these)

783.DJ is (***Main Circuit Breaker***/Safety Relay/ Pneumatic valve/None of these)

784.Baby compressor is operated by (12 V DC/ 24 V DC/***110 V DC***/220 V AC)

## THREE PHASE LOCOMOTIVE MCQ BANK

Choose the correct option from the alternatives.

785.Which one among the following is a three phase locomotive ---- i)WAG7, ii)WAP4,iii)**WAG9**

786.The traction motor used in 3 phase loco is --- i)DC series motor, ii)**Squirrel cage induction motor**, iii)Reluctance motor.

787.The type of TM used in WAG9 is--- i) HS15250A, ii)TAO 659, iii) **6FRA6068.**

788.The cooling arrangement of IGBT based 3 phase loco converter is – i) forced oil cooled, ii) **water cooled**, iii)forced air cooled.

789.In VVVF drives, VVVF stands for --i)**variable voltage variable frequency**,ii) variable voltage velocity factor,iii) voluntary verification of variable force.

790.The number of scavenger motor in a 3 phase locomotive is i) **2**, ii) 3, iii) 4.

791.The type of TFP used in 3 phase loco is – i)CGTT 5400, ii)NGTT 3900, iii)**LOT 6500.**

792.Auxiliary converter is denoted by --- i)MUB, ii)**BUR I,II and III,** iii)NSR.

793.Full form of GTO is —i)**Gate Turn-off Thyristor**, ii)Geared Traction Output, iii)Gate Triggered Oscillator.

794.The voltage rating of 3 phase TM is –i)1850 V, ii)**2180 V,** iii) 2500 V.

795.The cooling arrangement of 3 phase TM is --- i)oil cooled, ii)**forced air cooled,** iii)water cooled.

796.The no. of line converters in a 3 phase loco is —i**) 2,** ii)3, iii)4.

797.The capacity of compressor in a 3 phase loco is i)1000 LPM, ii)1250 LMP, iii)**1500 LPM.**

798.The generation of traction control used in 3 phase loco is called i)**MICAS-S2**, ii)ENTAS-D3, iii)MICONT-C3.

799.Regenerative braking can be used in – i) WAP4, ii) WAG5, iii)**WAP7.**

**Office of CHIEF ELECTRICAL ENGINEER/NCR/ALD**
**मुख्य बिजली इंजीनियर कार्यालय/उमरे/इलाहाबाद**

**QUESTION BANK FOR Gr 'B' 70 % SELECTIONS***(Total number of sheets = 11)*

ग्रुप 'बी'70 % चयन के लिए प्रश्न बैंक (शीटों की कुल संख्या = 11)

**Date of Issue:** 14th December 2011
निर्गत करने की तिथि: 14 दिसम्बर 2011

Following is the Bank of Questions for GrB Selections (70% GDCE) of Electrical Department for general guidance of prospective candidates. The List of Questions is NOT exhaustive, but is intended to serve as a guide only. The List includes broadly all aspects of working of a JS Officer and should help a candidate prepare for 70% GDCE Selections in Electrical Department. The Questions given here are not necessarily in the same weightage as would appear in a QUESTION PAPER, but these Questions are highlights of the Syllabus. The List has been divided into 4 Parts; as given below-

निम्नलिखित प्रश्न–बैंक बिजली विभाग के ग्रुप 'बी' चयन (70% GDCE) के अपेक्षित अभ्यर्थियों के सामान्य दिशा–निर्देश के लिए है। प्रश्नों की सूची सम्पूर्ण नहीं है, अपितु इसका उद्देश्य केवल एक निर्देश मात्र है। इस सूची में एक कनिष्ठ अधिकारी के समस्त कार्य क्षेत्रों को विस्तार से शामिल किया गया है और यह बिजली विभाग के 70% GDCE चयन की तैयारी कर रहे अभ्यर्थियों को मदद करेगा। इसमें दिए गए प्रश्न अनिवार्य रूप से उस समान महत्व के नहीं हैं जैसे कि प्रश्न–पत्र में आएंगे, बल्कि ये प्रश्न पाठ्यक्रम के मुख्य अंश हैं। इस सूची को चार भागों में बांटा गया है, जैसा कि नीचे दिया गया है –

A. General; which includes subjects of Accounts, Personnel, Stores Departments and **राजभाषा**.
   सामान्य : जिसमें लेखा, कार्मिक, भण्डार व राजभाषा विभाग के विषय शामिल हैं।

B. Electrical General; which includes subjects of General Power Supply, Train Lighting and AC coaches.

   विद्युत सामान्य : जिसमें सामान्य विद्युत सप्लाई, ट्रेन लाइटिंग व एसी कोचेज के विषय शामिल हैं।

C. Traction Distribution; which includes subjects of OHE, Traction Power Supply and SCADA

   कर्षण वितरण : जिसमें ओएचई, कर्षण विद्युत सप्लाई व स्काडा के विषय शामिल हैं।

D. Traction Rolling Stock; which includes subjects of maintenance and Operation of Locomotives.

   ट्रैक्शन रॉलिंग स्टॉक : जिसमें लोकोमोटिव्स के रख–रखाव व संचालन के विषय शामिल हैं।

QUESTIONS BANK

# *A- GENERAL (सामान्य)*

A1. Write short notes on: (संक्षिप्त टिप्पणी लिखें) :
   a. Rolling Stock program. (रॉलिंग स्टॉक प्रोग्राम)
   b. Machinery and Plant program. (मशीनरी एवं प्लांट प्रोग्राम)
   c. Works program. (वर्क्स प्रोग्राम)
   d. "Canons of Financial Proprietary". (वित्तीय स्वामित्व का सिद्वांत)

A2. Enumerate Minor and Major penalties as per DAR, 1968. Describe the procedure for imposing minor penalty. (अनुशासन व अपील नियम, 1968 के अनुसार लघु व दीर्घ शास्ति के दण्ड का वर्णन करें। लघु दण्ड आरोपित करने की प्रक्रिया का उल्लेख करें।)

A3. Describe the procedure for imposing Major penalties as per DAR, 1968. Narrate the importance of role of defense counsel. (अनुशासन व अपील नियम, 1968 के अनुसार दीर्घ शास्ति के आरोपण की प्रक्रिया का उल्लेख करें। डिफेंस काउंसिल की भूमिका के महत्व का उल्लेख करें।)

A4. Briefly describe Hours of Employment Regulation (HOER) and what are the different categories of Staff as per HOER? Explain how the overtime is calculated for Running Staff.
(कार्य घण्टे विनियम की संक्षिप्त व्याख्या करें व कार्य घण्टे विनियम के अनुसार स्टाफ के कौन–कौन से वर्ग होते हैं ? रनिंग स्टाफ के लिए ओवरटाइम की गणना कैसे की जाती है, यह समझाएं।)

A5. Define Stock items and non Stock items. Narrate the procedure of making a new Item as a Stock item. (स्टॉक आयटम व नॉन–स्टॉक आयटम की व्याख्या करें। एक नए आयटम को स्टॉक आयटम के रूप में बनाने की प्रक्रिया का उल्लेख करें।)

A6. What do you understand by PNM? Narrate the role and importance of PNM. How many PNM meetings are to be held in a year at Zonal and Divisional levels and who all are the participants of these meetings? (पीएनएम से आप क्या समझते हैं ? पीएनएम के महत्व व भूमिका का वर्णन करें। मण्डलीय व जोनल स्तर पर एक वर्ष में पीएनएम की कितनी बैठकें होती हैं और इन सभी बैठकों के भागीदार कौन–कौन लोग होते हैं ?)

A7. Define Single Tender, Limited Tender and Open Tender. Enumerate the basic features of these 3 types of Tenders. (सिंगल टेण्डर, लिमिटेड टेण्डर व ओपेन टेण्डर का वर्णन करें। इन तीनों प्रकार के टेण्डरों के मूलभूत विशेषताओं का मूल्यांकन करें।)

A8. Describe the procedure for creation of Non gazetted posts under Work Charged establishment. (वर्क चार्ज स्थापना के अन्तर्गत अराजपत्रित पदों के सृजन की प्रक्रिया का उल्लेख करें।)

A9. भाषा के आधार पर किये गये वर्गीकरण के अनुसार भारत वर्ष के राज्यों को कितने वर्गों में बांटा गया है ? प्रत्येक वर्ग का नाम और उस वर्ग में आने वाले राज्यों का नाम बतायें ।

A10. **राजभाषा अधिनियम की धारा ३(३) के अनुसार** कौन–कौन से दस्तावेज़ द्विभाषी रूप में जारी करना आवश्यक हैं । **सरकारी दफ्तरों में राजभाषा के प्रचार को बढ़ाने के लिए क्या कदम उठाए गए हैं ?**

## ***B- ELECTRICAL GENERAL (विद्युत सामान्य)***

B1. Describe two power supply distribution systems-radial system and looped system (ring main system) giving simple sketches. Enumerate their advantages and disadvantages also.

(सामान्य आरेखों के द्वारा विद्युत सप्लाई वितरण व्यवस्थाओं – रेडिअल प्रणाली व लूप्ड् प्रणाली (रिंग मेन सिस्टम) की व्याख्या करें। उनके लाभ व हानियों का भी वर्णन करें।)

B2. Enumerate advantages and disadvantages of power supply distribution by overhead lines vis-à-vis with underground cables.

(ओवरहेड लाइन्स व भूमिगत केबिल्स द्वारा विद्युत सप्लाई वितरण के लाभ व हानियों का वर्णन करें।)

B3. What are primary requirements of a good earthing system? Describe the manner in which earthing should be provided in electric sub-stations. How an earthing system is to be maintained in a 33KV Substation?

(एक अच्छी अर्थिंग व्यवस्था के लिए प्राथमिक आवश्यकताएं क्या होती हैं ? विद्युत सब–स्टेशनों में अर्थिंग की आपूर्त्ति के तरीके का वर्णन करें ? एक 33KV सब–स्टेशन में अर्थिंग व्यवस्था का रख–रखाव किस प्रकार होना चाहिए ?)

B4. (i) What tests must be performed before commissioning of a 33 KV substation?

(एक 33KV सब–स्टेशन की कमिशनिंग के पूर्व कौन–कौन से परीक्षण अनिवार्य रूप से किए जाने चाहिए ?)

(ii) What safety precautions should be observed during maintenance work in a 33 KV substation?

(एक 33KV सब–स्टेशन के रख–रखाव के कार्य के दौरान क्या–क्या सुरक्षात्मक सावधानियॉ बरती जानी चाहिए ?)

B5. Compare basic features of PVC and XLPE types of cables; used for distribution of electric power. What precautions should be taken during laying cables for better performance?

(विद्युत ऊर्जा के वितरण में प्रयोग की जाने वाली PVC व XLPE प्रकार के केबिल्स की मूलभूत विशेषताओं की तुलना करें। अच्छे परिणाम के लिए केबिल्स बिछाते समय क्या–क्या सावधानियॉ बरती जानी चाहिए ?)

B6. Describe advantages of submersible pumps. How will you troubleshoot failure of a submersible pump?

(भूमिगत पम्पस् के लाभों का वर्णन करें। भूमिगत पम्प में आई खराबी को आप किसप्रकार दूर करेंगे ?)

B7. Why is there need to conserve energy? Briefly mention various measures being taken in Indian Railways to conserve energy in the field of Electrical General Services.
(ऊर्जा संरक्षण की जरूरत क्यों है ? सामान्य विद्युत सेवा के क्षेत्र में भारतीय रेलवे में ऊर्जा संरक्षण के लिए उठाए जाने वाले विविध उपायों का उल्लेख करें।)

B8. What steps are being taken by Railways in the field of Solar energy for conserving electrical energy?
(विद्युत ऊर्जा के संरक्षण के लिए सौर ऊर्जा के क्षेत्र में रेलवे द्वारा कौन–कौन से कदम उठाए जा रहे है ?)

B9. Draw the schematic lay out of 33/0.4kV substation giving names and functions of various equipments.
(33/0.4kV सब–स्टेशन के योजनाबद्ध आरेखण रेखाचित्र खींचे तथा विविध उपकरणों का नाम और उनकी कार्य–प्रणालियों का विवरण दें।)

B10. Describe various protective devices and measures provided in a 33 kV electric substations for safety of equipment and working personnel.
(33 kV विद्युतीय सब–स्टेशनों की सुरक्षा व कार्यरत कर्मचारियों के लिए उठाए जाने वाले सुरक्षात्मक उपकरणों व कदमों का उल्लेख करें।)

B11. Describe various types of tariffs applicable for electrical energy in the field of Electrical General services. Explain various elements /parts of tariff.
(सामान्य विद्युत सेवा के क्षेत्र में विद्युत ऊर्जा के लिए प्रयुक्त विविध प्रकार के प्रशुल्कों का विवरण दें। प्रशुल्कों के प्रकार/विविध भागों की व्याख्या करें।)

B12. Define power factor. Briefly describe importance and functioning of capacitor banks to improve power factor.
(पावर फैक्टर का उल्लेख करें। पावर फैक्टर के सुधार के लिए कैपेसिटर बैंक्स् की कार्यप्रणाली व महत्व का संक्षिप्त वर्णन करें।)

B13. Describe merits and demerits of centrifugal pumps and submersible pumps.
(केन्द्रीकृत पम्प व भूमिगत पम्प के गुण व दोषों का वर्णन करें।)

B14. Briefly describe the functions of Electrical Inspector to Government (EIG) in Railways. Who works as EIG in Railways? Name the Authority who issues notification for nomination of EIG in Railways.
(रेलवे में इलेक्ट्रिकल इंस्पेक्टर टू गवर्नमेंट ऑफ इंडिया (ईआइजी) के कार्य प्रणाली का संक्षिप्त वर्णन करें। रेलवे में ईआइजी के रूप में कौन कार्य करता है ? उस अधिकारी का नाम बताएं जो रेलवे में ईआइजी की सूचना व नामकरण जारी करता है ?)

B15. Describe EOG and self generating types of train lighting systems. What are advantages of self generating system?

(ईओजी व ट्रेन लाइटिंग सिस्टम के सेल्फ जेनरेटिंग प्रकारों का वर्णन करें। सेल्फ जेनरेटिंग सिस्टम के क्या–क्या लाभ हैं ?)

B16. Describe various checks/maintenance to be carried out during round trip maintenance schedule of TL coaches.

(टीएल कोचेज के राउण्ड ट्रिप मेंटेनेंस के दौरान किए जाने वाले विविध जॉचों/रख–रखावों का वर्णन करें।)

B17. What are the special problems associated with air-conditioning of coaches as compared to air-conditioning of buildings? Describe salient features of roof mounted AC package units.

(वातानुकूलित भवनों की तुलना में वातानुकूलित कोचेज में कौन–कौन से खास समस्याएं संबद्ध होती हैं ? रूफ माउंटेड एसी पैकेज यूनिट्स् के खास विशेषताओं का वर्णन करें।)

B18. What type of and how many belts are used in AC/TL coaches? Give reasons for falling of belts during run. What precautions should be taken to minimize falling of belts?

(एसी/ट्रेन लाइटिंग कोचेज में कितने व किस प्रकार के बेल्ट्स् प्रयोग में लाए जाते हैं ? चलने के दौरान बेल्ट्स् के गिरने के कारणों को बताएं। बेल्ट्स् के गिरने को कम करने के लिए क्या–क्या उपाय किए जाने चाहिए ?)

B19. Draw the sketch of Air conditioning cycle. Describe the functions performed by various equipments of this cycle.

(वातानुकूलित चक्र के स्केच को खींचे। इस चक्र के विविध उपकरणों द्वारा किए जाने वाले कार्यों का वर्णन करें। )

B20. Briefly describe the round trip maintenance schedule done at primary depot for AC coaches.

(एसी कोचेज के लिए प्राइमरी डिपो में किए जाने वाले राउण्ड ट्रिप मेंटेनेंस शेड्यूल की संक्षिप्त व्याख्या करें।)

B21. Describe various checks to be made on V-belts and pulleys for satisfactory performance of V-belts.

(V- बेल्ट्स् के संतोषप्रद प्रदर्शन के लिए V- बेल्ट्स और पूलीज में किए जाने वाले विविध जॉचों का वर्णन करें।)

B22. What are the problems associated with under-slung AC coaches?

(अंडर–स्लंग एसी कोचेज के साथ कौन–कौन सी समस्याएं सम्बद्ध होती हैं ?)

B23. Describe the maintenance problems associated with lead acid batteries. Describe the charging cycle of the new batteries.

(लेड एसिड बैटरीज के साथ रख–रखाव संबंधित समस्याओं का वर्णन करें। नई बैटरियों के चार्जिंग चक्र का वर्णन करें। )

B24. Describe the working of VRLA batteries. Why VRLA batteries are superior to conventional lead acid batteries?

(VRLA बैटरियों के कार्य–प्रणाली का वर्णन करें। VRLA बैटरियॉ परम्परागत लेड एसिड बैटरियों की अपेक्षा श्रेष्ठ क्यों होती हैं ?)

B25. Mention the maintenance facilities required at primary depot for maintenance of AC & TL coaches.

(एसी व टीएल कोचेज के रख–रखाव के लिए प्राइमरी डिपो में रख–रखाव संबंधित सुविधाओं का वर्णन करें। )

B26. What are the comparative features of ERRUs and RRUs.

( ERRUs व RRUs की तुलनात्मक विशेषताएं क्या–क्या हैं ?)

B27. Describe various protective measures taken in TL and AC coaches to prevent fires. Describe the working of OVP relay.

(टीएल व एसी कोचेज में आग को रोकने के लिए विभिन्न प्रकार के उठाए जाने वाले सुरक्षात्मक उपायों का वर्णन करें। OVP रिले की कार्यप्रणाली का वर्णन करें।)

B28. Describe the working of brushless alternator. Give the typical characteristics of 4.5kW alternator and regulator.

(ब्रुशलेस अल्टर्नेटर की कार्यप्रणाली का वर्णन करें। 4.5kW अल्टर्नेटर व रेगूलेटर की प्रतीकात्मक विशेषताओं को बताएं।)

B29. What is a fuel cell? Explain its working in brief.

(फ्यूल सेल क्या होता है ? इसकी कार्य–प्रणाली की संक्षिप्त व्याख्या करें।)

B30. Enumerate 10 rules of Indian Electricity Rules?

(भारतीय विद्युत नियम के 10 नियमों का उल्लेख करें।)

B31. As an officer what action will be taken by you in case of a fire / accident in a train you are travelling. (रेल में यात्रा के दौरान एक अधिकारी के रूप में आग/दुर्घटना की परिस्थिति में आप क्या कदम उठाएंगे ?)

## *C- **TRACTION DISTRIBUTION*** (कर्षण वितरण)

C1. Why neutral sections are provided? What types of neutral sections are being provided in Indian Railways? Describe advantages/disadvantages of various types of neutral sections being used over IR. (न्यूट्रल सेक्शन किस लिए दिए जाते हैं ? भारतीय रेलवे में किस प्रकार के न्यूट्रल सेक्शन दिए जाते हैं ? भारतीय रेलवे में उपयोग में लाए जा रहे विविध प्रकार के न्यूट्रल सेक्शन्स् के लाभ/हानियों का वर्णन करें।)

C2. Describe the checks/adjustments to be done during maintenance of turnout/cross-over.

(टर्नआउट/क्रॉसओवर के रख–रखाव के दौरान किए जाने वाले जॉच/अजस्मेंट का वर्णन करें।)

C3. Describe briefly 2 x 25 kV ac OHE system. Describe comparative advantages and disadvantages of this system vis-à-vis 25 kV ac OHE system. (2 x 25 kV ac OHE प्रणाली का संक्षिप्त वर्णन करें। इस प्रणाली अर्थात् 2 x 25 kV ac OHE प्रणाली के तुलनात्मक लाभों व हानियों का वर्णन करें।)

C4. Why centrifuging of transformer oil is done? Draw insulation resistance-time graph and explain its various stages. (ट्रांसफार्मर ऑयल की सेन्ट्रीफ्यूजिंग क्यों की जाती है ? इंसूलेशन रेजिस्टेंस–टाइम ग्राफ को खींचे व इसके विविध स्तरों का वर्णन करें।)

C5. Explain the working of fixed capacitor banks for power factor correction and dynamic power factor correction. Enumerate merits and demerits of two systems. (पॉवर फैक्टर करेक्शन और डायनैमिक पॉवर फैक्टर करेक्शन के लिए फिक्स्ड् कैपेसिटर बैंक्स् के कार्य–प्रणाली का वर्णन करें। इन दो प्रणालियों के गुण व दोषों का उल्लेख करें।)

C6. Describe precautions to be taken during operation of isolator in the yard. Explain the procedure to be followed by TPC and ASM for operation of isolator. (यार्ड में आइसोलेटर के संचालन के दौरान उठायी जाने वाली सतर्कताओं का वर्णन करें। आइसोलेटर के संचालन के लिए टीपीसी व एएसएम द्वारा की जाने वाली प्रक्रिया का वर्णन करें।)

C7. Why regulation of OHE is required? Describe working of 3 pulley type ATD. Why 3 pulley type ATD is preferred over winch type ATD? (ओएचई के विनियमन की जरूरत क्यों है ? 3 पूली टाइप एटीडी की कार्य–प्रणाली का वर्णन करें। विंच टाइप एटीडी की अपेक्षा 3 पूली टाइप एटीडी को क्यों वरीयता दी जाती है ?)

C8. Define over-dimensioned consignment (ODC). Classify ODCs. What precautions should be taken during movement of ODCs? (ओवर–डायमेन्शन्ड कंसायनमेंट (ODC) का वर्णन करें। ODCs का वर्गीकरण करें। ODCs के मूवमेंट के दौरान क्या सतर्कताएं उठायी जानी चाहिए ?)

C9. Describe protection scheme for 25 kV ac OHE. Explain how to finalize setting of MHO relay. (25 kV ac OHE की सुरक्षात्मक योजना का वर्णन करें। MHO रिले की सेटिंग कैसे निर्धारित की जाती है, वर्णन करें।)

C10. Describe protection scheme of transformers provided in traction sub-stations.

(ट्रैक्शन सब–स्टेशन्स् में प्रयोग की जाने वाली ट्रांसफार्मर्स के सुरक्षात्मक योजना का वर्णन करें।)

C11. Give representative sectioning scheme for OHE of double line section. Explain purpose of providing various posts in the scheme. (डबल लाइन सेक्शन में ओएचई के लिए रिप्रजेन्टेटीव सेक्शनिंग स्कीम बताएं। इस स्कीम में विविध पोस्ट्स् के प्रयुक्त होने के उद्देश्य का वर्णन करें।)

C12. Give schematic diagram of LT supply for signals clearly indicating areas to be maintained by Electrical and S&T departments. ( सिगनल के लिए एलटी सप्लाई का योजनाबद्ध रेखाचित्र खींचे। विद्युत और संकेत व दूरसंचार विभाग द्वारा मेन्टेन किए जाने वाले क्षेत्रों को स्पष्ट दर्शायें।)

C13. Describe the importance of current collection test. What are main reasons for poor current collection? What are the details of Oliver G equipment used in Current collection test?
(करेन्ट कलेक्शन टेस्ट के महत्व का वर्णन करें। खराब करेन्ट कलेक्शन के लिए मुख्य कारण क्या–क्या हैं ? करेन्ट कलेक्शन टेस्ट में प्रयोग की जाने वाली Oliver G उपकरण के बारे में विस्तार से बताएं।)

C14. Why SF-6 /Vacuum circuit breakers and interrupters are preferred over oil type? Give the maintenance schedules of SF-6 circuit breakers.

(ऑयल टाइप की अपेक्षा SF-6 /वैक्यूम सर्किट ब्रेकर्स और इन्टरपटर्स क्यों ज्यादा प्रयोग की जाती हैं ? SF-6 सर्किट ब्रेकर्स के मेन्टेनेन्स शेड्यूल्स को बताएं।)

C15. Why is SCADA required? What problems are being faced in maintenance of SCADA?
(स्काडा की आवश्यकता क्यों है ? स्काडा के रख–रखाव में क्या–क्या समस्याएं सामने आती हैं ?)

C16. Draw schematic of 132kV/25kV Traction substation giving the names of various equipments. (132kV/25kV ट्रैक्शन सब–स्टेशन के विविध उपकरणों का नाम देते हुए योजनाबद्ध रेखाचित्र खींचे।)

C17. Describe the steps to be taken by TPC and SSE of any OHE Depot for early restoration of OHE during breakdowns/accidents. (ब्रेकडाउन्स/दुर्घटनाओं के दौरान ओएचई के शीघ्र पुनर्स्थापना के लिए किसी ओचई डिपो के टीपीसी और एसएसई द्वारा उठाए जाने वाले कदमों का वर्णन करें।)

C18. Draw normal cantilever assembly of OHE giving names of important components. What are comparative advantages and disadvantages of porcelain insulators and composite insulators? (महत्वपूर्ण उपकरणों का नाम लिखते हुए ओएचई के नॉर्मल कैन्टीलीवर असेम्बली का रेखाचित्र खींचे। पोर्सलीन इंसूलेटर्स और कम्पोजिट इंसूलेटर्स के क्या–क्या तुलनात्मक लाभ व हानियॉ हैं ?)

C19. Describe the items to be complied and give the list of documents to be submitted with EIG Application for obtaining EIG sanction for Energisation of OHE.
(ओएचई के एनर्जाइजेशन के लिए ईआइजी सैंक्शन को प्राप्त करने के लिए ईआइजी आवेदन पत्र के साथ पूर्ण की जाने वाली मदों का विवरण व दिए जाने वाले कागजात की सूची का विवरण दें।)

C20. What aspects are to be checked at approval stage for Power line crossings?
(पॉवर लाइन क्रासिंग्स् के अनुमोदन स्तर पर किन–किन तथ्यों की जॉच की जाती है ?)

C21. What are the different types of Foundations and what is the criterion for selection of these types for different locations/structures? (फाउंडेशन्स् के कितने प्रकार होते हैं और विभिन्न लोकेशनों/स्ट्रक्चर्स पर इन फाउंडेशन्स् को चुनने का क्या आधार होता है ?)

C22. What criterion is used for locating (a) neutral section (b) TSS?
( (a) न्यूट्रल सेक्शन (b) टीएसएस के स्थान निर्धारण के लिए क्या आधार प्रयोग किया जाता है ?)

## *D- TRACTION ROLLING STOCK MAINTENANCE AND OPERATION*
## *(ट्रैक्शन रॉलिंग स्टॉक रख–रखाव व संचालन)*

D1. Give sketch of typical speed-time curve of trains. Describe various parts of the curve.

(गाड़ियों के टिपिकल स्पीड–टाइम कर्व का रेखाचित्र खींचे। कर्व के विविध प्रकारों का वर्णन करें।)

D2. Differentiate between rheostatic and regenerative braking. Explain how regenerative braking is superior? Which locos of Indian Railways are provided with regenerative braking?

(रिहोस्टैटिक व रिजेनरेटीव ब्रेकिंग का अंतर प्रस्तुत करें। बताएं कि किस प्रकार रिजेनरेटिव ब्रेकिंग श्रेष्ठ है ? भारतीय रेलवे में किस प्रकार के लोको में रिजेनरेटिव ब्रेकिंग प्रयुक्त है ?)

D3. Describe working principle of air brake system. Differentiate between air brake system and vacuum brake system. (एअर ब्रेक सिस्टम के कार्य–सिद्धांत का वर्णन करें। एअर ब्रेक प्रणाली व वैक्यूम ब्रेक प्रणाली के बीच का अंतर प्रस्तुत करें।)

D4. Why tap changer is provided in ac electric locos? Describe working of tap changer with the help of a sketch. (एसी विद्युत इंजनों में टैप चेंजर क्यों दिया जाता है ? स्केच के माध्यम से टैप चेन्जर के कार्य–प्रणाली का वर्णन करें।)

D5. Describe the working of arno converter ***and*** static converter. Enumerate their merits and demerits. (आर्नो कनवर्टर व स्टैटिक कनवर्टर की कार्य–प्रणाली का वर्णन करें। इनके गुण व दोषों का वर्णन करें।)

D6. Mention various maintenance schedules of ac electric locomotives. Briefly describe activities to be carried out in IC schedule. (एक एसी लोकोमोटिव के विविध मेनेटेनेंस शेड्यूल्स का वर्णन करें। आइसी शेड्यूल में किए जाने वाले कार्यों का संक्षिप्त विवरण दें।)

D7. Describe the role of Progress and Planning Organization (PPO) in efficient and effective functioning of Electric Loco Shed. (विद्युत लोको शेड में कुशल व प्रभावी कार्य–प्रणाली के लिए Progress and Planning Organization (PPO) के महत्व का वर्णन करें।)

D8. Describe the advantages of 3-phase technology locomotives over conventional ac electric locos. Mention main differences in equipments provided in 3-phase locos vis-à-vis conventional ac electric locos. (परम्परागत एसी विद्युत लोको की अपेक्षा 3-phase तकनीक के लोकोमोटिव के लाभों का वर्णन करें। परम्परागत एसी विद्युत लोको में जैसे कि 3-phase लोको में प्रयुक्त उपकरणों में मुख्य अंतरों का वर्णन करें।)

D9. Mention main components of Co-Co tri-mount bogie and briefly describe their functions. Explain why the gear ratios of goods locos and passenger locos are different.

( Co-Co tri-mount bogie के मुख्य पुर्जों का वर्णन करें व उनकी कार्य–प्रणाली का संक्षिप्त वर्णन करें। बताएं कि गुड्स् लोकोज और पैसेन्जर लोकोज के गिअर रेशिओज में अंतर क्यों होता है ?)

D10. Describe the maintenance practices to be followed for prevention of fire in electric locos. (विद्युत इंजनों में आग की रोकथाम के लिए किए जाने वाले रख–रखाव सम्बन्धी कार्यों का वर्णन करें।)

D11. Draw power circuit diagram of AC locos. (एसी लोकोज के पॉवर सर्किट का रेखाचित्र खींचे।)

D12. What precautions are to be taken before rainy season for trouble free performance of AC locos? (एसी लोकोज के समस्यामुक्त प्रदर्शन के लिए वर्षा ऋतु पूर्व क्या सतर्कताएं उठायी जानी चाहिए ?)

D13. Describe the working of SMGR and GR. What are the must change items for AOH and POH schedules of an Electric Loco? ( SMGR व GR के कार्यों का वर्णन करें। विद्युत इंजन के AOH व POH शेड्यूल के लिए क्या–क्या मस्ट चेन्ज मद हैं ?)

D14. Describe functions of QOP and QLM relays. Briefly mention trouble shooting in case of QOP dropping. ( QOP व QLM के कार्य–प्रणाली का वर्णन करें। QOP ड्रॉपिंग की स्थिति में ट्रबल शूटिंग का संक्षिप्त वर्णन करें।)

D15. Draw the power circuit diagram of 3 phase locos. (3 phase लोकोज के पॉवर सर्किट का रेखाचित्र खींचे।)

D16. Draw the profile of loco wheel. Explain why wheel is not re-profiled to ideal wheel profile. (इंजन के पहिए के प्रोफाइल को खींचे। यह बताएं कि व्हील रिप्रोफाइल आदर्श पहिए के प्रोफाइल जैसा क्यों नहीं किया जाता है ?)

D17. Enumerate merits and demerits of AC and DC auxiliary machines. Describe the effect of line voltage on their performance. ( AC व DC ऑग्जलरी मशीनों के गुण व दोषों का वर्णन करें। लाइन वोल्टेज में उनके प्रदर्शन पर प्रभाव का वर्णन करें।)

D18. Why Vigilance Control Device is provided in Locomotive? Describe its functioning.
(लोकोमोटिव में विजिलेंस कंट्रोल डिवाइस क्यों प्रयोग की जाती है ? इसकी कार्य प्रणाली का वर्णन करें।)

D19. Describe safety checks to be done before giving fitness to the electric locos in out pits.
(आउट पिट्स् में विद्युत इंजनों को उपयुक्त करार देने से पूर्व संरक्षात्मक जॉचों का वर्णन करें।)

D20. Enumerate the points you must check during foot plate inspection as traction rolling stock operation officer. (ट्रैक्शन रॉलिंग स्टॉक संचालक अधिकारी के रूप में पायदान निरीक्षण के दौरान आपके द्वारा की जाने वाली जॉचों का उल्लेख करें।)

D21. Mention the factors to be considered for preparation of crew link. Briefly describe the procedure for making a crew link. (क्रू लिंक की तैयारी के लिए विचार की जाने वाली मदों का विवरण दें। एक क्रू लिंक के निर्माण की प्रक्रिया का संक्षिप्त वर्णन करें।)

D22. Mention the factors affecting the duty hours of Loco Pilots. Describe various records of duty hours of Loco Pilots which are required to be maintained. (लोको पायलट्स् के duty hours को प्रभावित करने वाले कारकों का उल्लेख करें। लोको पायलट्स् के duty hours के विविध रिकार्डस् का वर्णन करें जिसको मेन्टेन करने की जरूरत होती है ?)

D23. Define specific energy consumption (SEC). Enumerate factors affecting specific energy consumption. What actions should be taken for improving SEC? Explain why SEC of passenger carrying trains is higher than goods trains. (स्पेसिफिक एनर्जी कंजम्शन (SEC) को बतलाएं। स्पेसिफिक एनर्जी कंजम्शन को प्रभावित करने वाले कारकों का उल्लेख करें। SEC के सुधार के लिए कौन–कौन से कदम उठाए जाने चाहिए ? मालगाड़ियों की अपेक्षा सवारी ढोने वाली गाड़ियों में SEC क्यों अधिक होता है, वर्णन करें।)

D24. Explain the reasons for stalling of trains. Describe the precautions to be taken to avoid stalling of trains. (गाड़ियों के stalling के कारणों का वर्णन करें। गाड़ियों के stalling को रोकने के लिए उठायी जाने वाली सतर्कताओं का वर्णन करें।)

D25. Describe causes of train parting. Enumerate the precautions to be taken to reduce train parting. ( Train parting के कारणों का वर्णन करें। Train parting को कम करने के लिए उठायी जाने वाली सावधानियों का उल्लेख करें।)

D26. What checks should be carried out by crew with multiple locos? List the position of various cocks in leading and trailing locos of a multiple loco. ( Multiple locos में क्रू के द्वारा किए जाने वाले जॉच कौन–कौन से हैं ? Multiple locos में leading व trailing लोकोज में विविध cocks की स्थिति की लिस्ट बनाएं।)

D27. Define adhesion. Describe the factors affecting adhesion. Explain why the adhesion reduces on curves. ( Adhesion का उल्लेख करें। Adhesion को प्रभावित करनेवाले कारकों का वर्णन करें। घुमाव पर adhesion क्यों कम होता है, वर्णन करें ?)

D28. What checks and measurements should be made after panto entanglement?
(पैण्टो इंटेंगलमेंट पर कौन–कौन से जॉच व उपाय किए जाने चाहिए ?)

D29. What is modified auto-signalling system? How it is beneficial? Please explain with diagram. (मॉडीफाइड ऑटो–सिगनलिंग सिस्टम क्या है ? यह किस प्रकार लाभकारी है ? कृपया रेखाचित्र द्वारा वर्णन करें।)

# OBJECTIVE QUESTIONS OF G&SR, ACCIDENT MANUAL, BLOCK WORKING MANUAL

## CHAPTER NO – I & II

1. The General Rules for Open Lines of the Railways 1976 have been framed under Section _____ of the Railways Act 1989 by the Government of India.(Preface of G&SR)
2. General Rules can be amended by _____.(Preface of G&SR)
3. Approved special instructions are issued or approved by _____.(G.R.1.02(4))
4. _____ is the authorized officer of South Central railway. (S.R.1.02(5))
5. Subsidiary rules are framed by _____.(S.R.1.02(5))
6. Who is the Commissioner of Railway Safety for South Central Circle _____.(CRS office/SC)
7. Present Principal Chief Operations Manager of SCR _____
8. A fixed stop signal of a station controlling the entry of trains into next block section is called _____.(G.R.1.02(33))
9. _____ and its cognate expressions include a train, vehicle or obstacle on or fouling a line, or any condition which is dangerous to trains. (G.R.1.02(43))
10. A train, which has started under an A T P and has not completed its journey, is called _____.(G.R.1.02(48))
11. Special instructions are issued by _____.(G.R.1.02(50))
12. Station Limits are available between _____ signals at a Block Station. (G.R.1.02(52))
13. At Class ‘D’ station, station limits are available between _____.(S.R.1.02.52)
14. _____means the person on duty who is for the time being responsible for the working of the traffic within station limits. (G.R.1.02(53))
15. On Double line class ‘B’ station Multiple Aspect Signalling, station section lies between _____ and _____.(G.R.1.02(54))
16. On single line ‘B’ class MAS station, Station section lies between_____or _____ or _____.(G.R.1.02(54))
17. Station Section is available only at _____ station. (G.R.1.02(54)
18. _____ means the system adopted for the time being for the working of trains on any portion of a railway. (G.R.1.02(56))
19. Block stations are sub-classified as _____, _____, _____ &_____. (G.R/S.R.1.03(2))

20. At a ‘A’ class station line clear may not be given for a train unless the line is clear for at least _____ mts beyond the Home signal, or up to _____.(G.R.1.03(2))
21. The classification of a station shall be mentioned in the _____ . (S.R.1.03(1))
22. Any Block Station which cannot be worked under Class ‘A’ Class ‘B’ or Class ‘C’ conditions is termed as _____. (S.R.1.03(2))
23. Whenever L Ps / AL Ps / SMs / Guards / Switchmen join this Zonal Railway, on transfer, they shall attend _____ before taking independent charge. (S.R.2.03.2)
24. No Railway Servant directly connected with the working of trains shall take or use any alcoholic drink, sedative, narcotic or stimulant drug or preparation within _____ hours before the commencement of his duty or take or use any such drink, drug or preparation when on duty. (G.R.2.09(2))
25. If train parting is observed by any Railway Servant, _____ signal should not be exhibited.(G.R.2.11.2(d))
26. If any railway servant notices that a train has parted, he shall try to attract the attention of the LP and Guard by _____ and put both his hands together above his head and separate them smartly. (S.R.2.11.1)
27. When there is a severe storm endangering the safety of passengers trains, SM shall not _____ or _____.(S.R.2.11.2.1)
28. Wind velocity can be measured by _____.(S.R.2.11.3)
29. Assurance Register for Amendments to Rule Books shall be maintained to obtain staffs" acknowledgement for having read and understood the amendments to (i) _____ (ii) _____ (iii) _____ and (iv) _____ (S.R.2.03)

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## CHAPTER NO. I I I

1. Signals used for controlling movement of trains as per G & SR are _____, _____, _____ and _____. (G.R.3.02)
2. Under special instructions wherever any signal is located on right side of the track, that signal post shall have an _____ showing the line to which the signal is referredThe normal aspect of Distant signal is _____.(G.R.3.07(4))
3. In colour light area Distant signal is identified by _____.(G.R.3.07(4))
4. The normal aspect of Distant signal is _____.(G.R.3.07(4))
5. Whenever two yellow lights are exhibited in Distant signal the Aspect is _____.(G.R.3.07(4))

6. Whenever one yellow light is exhibited in Distant signal the Aspect is _____ .(G.R.3.07(4))
7. The indication of the Distant signal in Caution Aspect is _____ _____.(G.R.3.07(4))
8. The indication of the Distant signal in Attention Aspect is _____.(G.R.3.07(4)
9. Distant signal tells about the aspect of _____ signal ahead. (G.R.3.07(5))
10. Whenever Inner Distant is provided, Distant Signal is capable of displaying _____ &_____aspects only. (G.R.3.07(6))
11. The normal aspect of Distant signal on double distant signal area is _____ . (G.R.3.07(6))
12. When colour light Distant signal is combined with Gate/LSS, the normal aspect of that signal is _____.(G.R.3.07(7))
13. Distant signal is provided at a distance of _____ meters in rear of the stop signal.(SEM 7.30.4)
14. Wherever double distant is provided, distant signal location is _____ meters from the stop signal. (S.R.3.07.2)
15. _____ is eliminated wherever two Distant signals are provided. (S.R.3.07.2)
16. At stations provided with Advanced starter and starter, the _____shall be taken off first and then the _____.(S.R.3.10.1)
17. _____ are provided at certain cabins which when reversed, lock the levers of all running Semi-Automatic signals and enable the signals to function as Automatic signals. (S.R.3.12.2)
18. When a colour light Distant is combined with LSS/Gate signal, _____ marker shall be dispensed with on the signal post. (G.R.3.17,S.R.3.73.3)
19. Colour light calling ON signal is identified by _____.(G.R.3.13(1)b)
20. Calling On signal may be provided below any stop signal except _____. (G.R.3.13(2))
21. Calling ON signal will show _____ light in “ON” position. (G.R.3.13(4))
22. Calling On signal shows _____ colour light in ‘OFF’ position. (G.R.3.13(6))
23. The Aspect of the Calling On signal when taken ‘OFF’ is _____.(G.R.3.13(6))
24. Calling ON signal cannot be taken “OFF” during _____ (end) point failure. (SEM 7.19.5(c))
25. Calling ON signal is to be used only on two occasions, they are _____, _____.(G.R.3.69, G.R.5.09)

26. Condition for taking off calling on signal is that the train has been brought to a _____at the stop signal.(G.R.3.45)
27. To take “OFF” calling ON signal, the train must be in the _____ Zone and if calling ON is taken “OFF”. it will take _____time . (SEM 7.19.5(c))
28. Shunt signals are of _____ types, and they are _____. _____ and _____.(G.R.3.14(1))
29. Shunt signal may be provided below any stop signal except _____. (G.R.3.14(3))
30. Shunt signal below stop signal will show _____ light in “ON” position. (G.R.3.14(6))
31. Position light shunt signal shows _____ colour lights in ‘OFF’ position. (G.R.3.14(9))
32. The Aspect of the shunt signal when taken ‘OFF’ is _____.(G.R.3.14(9))
33. The Aspect of the shunt signal at ‘ON’ is _____.(G.R.3.14(9))
34. Shunt signal detects _____.(S.R.5.14.5))
35. _____ type of shunt signals shall be provided in colour light area. (SEM 7.42.2)
36. _____ is the authority to pass defective Independent shunt signal or shunt signal below stop signal at “ON”. (S.R.3.14.1)
37. When Shunting Permitted Indictor is defective, _____ is the authority for the LP. (S.R.3.14.3.3)
38. Detailed working instructions about Shunting Permitted Indicator are available in _____. (S.R.3.14.3.4)
39. I. B signal is identified by _____.(G.R.3.17.1)
40. Gate signal in Automatic section is identified by _____. (G.R.3.17.1)
41. When a fixed signal is not in use, it shall be distinguished by _____ (G.R.3.18.1)
42. Route indicators are treated as _____.(S.R.3.19.1)
43. Route indicators are of _____ types and they are(a) _____, (b) _____ (c) _____. (SEM Part -I -7.4)
44. There are four types of Electric repeaters and they are (a)_____ (b)_____ (c) _____ (d) _____. (S.R.3.23.1)
45. Whenever the miniature light repeater in the colour light signaling territory is found to be defective and aspect is not visible, the corresponding signal shall also be treated as _____ . (S.R.3.23.2.4)
46. When a signal is newly erected or shifted, it shall be jointly inspected by _____, _____ &_____.(signal sighting committee(S.R.3.26.1)

47. When a signal is newly erected or shifted, caution order shall be given for a period of _____ days and notified in _____of lobbies. (S.R.3.26.1)
48. Signal sighting committee will go on footplate inspection once in _____. (S.R.3.26.2)
49. The minimum equipment of signals at a class “B” station with M A S are _____ _____, _____.(G.R.3.27(a))
50. At a class “C” MAS station the minimum equipment of signals are _____, _____.(G.R.3.27(b))
51. Shunting limit board/Advanced starter is provided at a single line station where shunting(obstruction) is permitted out side the outermost facing points in the direction of _____.(G.R.3.32(1))
52. At a Class ‘B’ station, Single line with MAS, the distance from Home signal to outermost facing points shall not be less than _____ meters.(G.R.8.01(2)b,G.R.3.40(3)b)
53. Block Section Limit Board is provided at _____ station with _____ signals where the first point is trailing or where there are _____.(G.R.3.32(2))
54. The distance from Home signal to B S L B shall not be less than _____ metres. (G.R.3.32(2))
55. Gate signal is identified by _____.(G.R.3.34.2)
56. Detailed working instructions about outlying siding are incorporated in _____. (S.R.3.35.1)
57. Outlying siding points are indicated by _____ mark board.(S.R.3.35.2)
58. Home signal lever/switch will be normalized after the passage of _____. (G.R.3.36.(2)(b))
59. Taking ‘off’ the approach Stop signals can be delayed to ensure busy level crossing gates, if any, are closed only for _____ before the arrival of the train, to avoid complaints from road users. (S.R.3.36.1)
60. SM shall test the working of the reception signal _____ and record results of the tests in _____.(S.R.3.36.3.2)
61. The speed of a goods train while entering goods terminal yard is restricted to _____ kmph. (S.R.3.36.4)
62. A signal which is taken “OFF” for a train will be put to “ON” position only in emergency to _____ _____. (S.R.3.36.5.1)
63. To put back starter/advanced starter for departing train LP of the train should be advised by a _____ and obtain acknowledgement. (S.R.3.36.5.3.1)
64. Fixed signals except Automatic Signals shall always show their most _____ aspect in the normal position. (G.R.3.37)
65. Even though departure signals are taken off, LP shall stop at stations where stoppages are scheduled in the _____.(S.R.3.37.1)

66. On single line immediately after the arrival of a stopping train, the points at _____should be immediately set against the _____. (G.R.3.38(2))

67. On double line immediately after the arrival of a train, the points in _____should be immediately set against the_____.(G.R.3.38(2))

68. When all the line at a station are blocked by passenger carrying trains, and still line clear is granted for a train, the points shall be set for _____. (S.R.3.38.6)

69. After the operation of every motor operated point, the _____and _____indications must be checked by the SM to see that the points are in working condition. (S.R.3.38.7.1)

70. Signal over lap in M A S shall not be less than _____ metres, which shall be reckoned from _____on single line (G.R. 3.40.(1)(b),(3)(b))

71. Signal over lap in M A S shall not be less than _____ metres, which shall be reckoned from _____on Double line. (G.R. 3.40.(1)(a),(3)(b))

72. To receive a stopping train on loop line having sand Hump or buffer stop, the points must be set for _____ only when block section ahead is occupied. (S.R.3.40.2)

73. _____ signals are prohibited to be used for shunting purposes.(G.R.3.46)

74. Slip siding is intended to protect _____.(S.R.3.50.3.1)

75. Catch siding is intended to protect _____.(S.R.3.50.3.2)

76. When there is a falling gradient of _____ towards station the provision of catch siding is compulsory. (The Railways opening for public carriage of Passenger Rules2000, Form XV , Sl no.46)

77. When there is a falling gradient of _____ towards block section the provision of slip siding is compulsory. (The Railways opening for public carriage of Passenger Rules2000, Form XV , Sl no.46)

78. Catch and slip sidings shall not be used for _____ and _____ purposes. (S.R.3.50.3.1, 3.2)

79. Normal setting of points wherever catch/slip sidings are provided is for _____.(S.R.3.50.3.3)

80. Catch/Slip siding points key can be extracted from the block instrument, only when the block instrument is in _____ position. (BWM-Part B-3.4)

81. When Trap indicator is provided, it shall show _____ during day and _____ light during night when it is in open position. (S.R.3.50.2)

82. All points shall normally be set for the _____line. (G.R.3.51(1))

83. Point indicator wherever available shall show _____ during day and _____ light during night when point is set for straight(Main) Line. (S.R.3.51.3.1)

84. Point Indicator, where ever available shall show _____ during day and _____ light during night when point is set for turnout( loop line). (S.R.3.51.3.1)

85. Whenever points/signals/Block Instrument is disconnected by SI/ESM, SM shall ensure that _____is issued by SI/ESM. (S.R.3.51.6)

86. SM shall inform cabin man/CASM/SWM under exchange of _____ whenever the points/signals/block is disconnected. (S.R.3.51.6)

87. When the disconnected signal/point is reconnected, SI/ESM shall test jointly with _____.(S.R.3.51.6)

88. From the time of disconnection to reconnection, the trains shall be admitted by _____ method. (S.R.3.51.7.1)

89. Whenever signal Inspector is testing the signal, the remark shall be recorded in _____.(S.R.3.51.9.1)

90. By waving green flag by day and a white light by night up and down vertically as high and as low as possible indicate _____.(G.R.6.08(3))

91. Violently waving a white light horizontally across the body of a person indicates _____ _____.(G.R.3.53)

92. A green flag/green light moved slowly up and down indicates _____.(G.R.3.56)

93. Detonators are also known as _____.(G.R.3.59)

94. VTP is painted _____. (S.R.3.61.3)

95. FSP is painted _____&_____ alternatively. (S.R.3.61.3)

96. VTP is located at _____ meters from _____. (S.R.3.61.3)

97. _____ number of detonators are given to each fog signalman. (S.R.3.61.5)

98. FSP is located at _____ meters from _____ signal. (S.R.3.61.9)

99. Maximum speed of trains during dense fog in automatic block system is_____ when aspect of signal ahead is proceed (S.R.3.61.9)

100. Maximum speed of trains during dense fog in automatic block system is_____ when aspect of signal ahead is attention (S.R.3.61.9)

101. Maximum speed of trains during dense fog in automatic block system is_____ when aspect of signal ahead is caution (S.R.3.61.9)

102. Nominated fog signalmen are two from _____ department and two from _____ department. (S.R.3.61.12)

103. Fog signalman shall remain at FSP for a period of _____ hours on Main line section. (S.R.3.61.12)

104. For signalmens' assurance will be taken in _____ register by SM. (S.R.3.61.16)

105. The knowledge of staff to use detonators shall be tested by the testing officials once in _____.(S.R.3.64.4.2)

106. The normal life of detonators manufactured during 2010 and thereafter is _____ years. **(SR . 3.64.5.3** )

107. The life of the detonators can be extended further for a maximum of ____ more years. **(SR . 3.64.5.3)**

108. _____ shall prescribe the no. of detonators which shall be kept in stock at a station. (S.R.3.64.1.2)

109. TI/SM/PWI shall test detonators once in _____.(S.R.3.64.5.2)

110. Normal life of a detonator is _____.(S.R.3.64.5.3)

111. After testing the detonator, the life can be extended by maximum of _____ extensions. (S.R.3.64.5.3)

112. Testing of detonator shall be done by moving an empty wagon hauled by a locomotive at a speed of _____ kmph. (S.R.3.64.5.6)

113. The signals to be used to warn the incoming train of an obstruction shall be a _____at night or a red flag during day.(G.R.3.65)

114. Whenever a signal/point/block instrument is defective, SM shall make an entry in _____.(S.R.3.68.2)

115. Whenever a signal which is detecting a point becomes defective, these points are treated as _____.(S.R.3.68.5)

116. A blank signal under complete power off situation is to be treated as _____ signal. (S.R.3.68.6)

117. Pre-warning about defective reception signal is not required when there is _____ signal provision or when _____ is provided.(G.R.3.69(1))

118. When home is defective and pre warning is given, the LP may pass such signal on receipt of _____ at the foot of the signal.(G.R.3.69(1))

119. When Loco Pilot is pre warned about the defective signal, Station Master shall ensure that the conditions for _____ that signal have been fulfilled. (G.R.3.69(3))

120. Pre-warning when given it will be given in the form No. _____ . (S.R.3.69.2.1)

121. When train is received on Calling ON, in Podanur Panel, Calling "ON" cancellation takes _____ seconds.(App. XI-5(v)

122. The axle counter shall be reset only after ensuring that the monitored portion is _____.(S.R.3.69.5.1)

123. Whenever axle counters are to be reset , it should be done by station master on duty along with one _____/_____staff. (S.R.3.69.5.3)

124. When a train passes home signal at 'ON', authority for receiving the train _____&_____ and PHS at facing points (S.R.3.69.14)

125. Authority to pass defective starter signal (if it is not LSS) is

_____. (G.R.3.70(1))

126. When I B distant fails in "OFF" position _____ is the authority for trains before dispatching. (G.R.3.71(2)/G.R.3.75)

127. On Double line when LSS is defective _____ is the authority to start a train. (G.R.3.70(2))

128. On Single line token less section when LSS is defective _____authority shall be given to LP. (G.R.3.70(2))

129. When Loco Pilot passes starter at "ON" partly and stopped before Advanced Starter, subsequently line clear is taken, _____ will be given. (S.R.3.70.2)

130. When Gate signal is at ON, the LP shall wait _____by day/night and gateman not available, LP may pass the gate on the hand signals of _____after ensuring that gate is closed..(G.R.3.73(2))

131. When Gate signal is at ON, the LP shall wait for one minute by _____and two minutes by _____and gateman exhibiting hand signals LP may _____..(G.R.3.73(2)(b))

132. When LP passed the Gate signal at ON and gateman is not available, the LP of the first train shall_____..(S.R.3.73.2)

133. Gate-cum-distant signal will be located at a distance of _____ meters in rear of the gate. (S.R.3.73.3)

134. If a signal is showing white light in place of a colour light, it is treated as signal is showing_____.(G.R.3.74(1)(C))

135. When Loco Pilot finds a reception stop signal in semaphore area in OFF condition without light, he shall observe _____.(G.R.3.74(1)(e))

136. Whenever colour light signal is flickering / bobbing and does not pick up a steady aspect at least for _____ time, the signal shall be treated as defective.(S.R.3.74)

137. When I B S is defective _____ is the authority to be given to Loco Pilot . (S.R.3.75.2)

138. I. B signal will have_____ facility. (S.R.3.75.4)

139. When I B S is at "ON" the Loco Pilot shall stop and contact _____ immediately.(S.R.3.75.4)

140. When IBS is at “ON” and the telephone is out of order, Loco Pilot after waiting for _____ minutes shall proceed at a speed of _____ kmph when view is clear/not clear upto next stop signal. (S.R.3.75.4)

141. Whenever axle counter of I B S is functioning improperly, SM in rear with the co-operation of SM in advance shall operate _____ buttons to reset axle counter. (S.R.14.13.1)

142. Wherever I B S is provided, LSS is interlocked with _____and I B S is interlocked with _____(App B of SWRs where IBS is provided)

143. When Loco Pilot pass I B S at “ON” _____ indication will appear to SM in rear.(S.R.14.14.1.1)

144. When Loco Pilot passes LSS in “OFF” position _____ indication will appear which will become normal by putting back _____.(S.R.14.14.1.2)

145. When Loco Pilot passes I B S in “OFF” position, _____ indication will appear after which block instrument is to be put in_____position. (S.R.14.14.1.3)

146. Whenever I B S or I B distant signal bulb is fused OFF, _____ indication shall appear along with buzzer. (S.R.14.14.1.4)

147. Under no circumstances should a train be _____ over the trailed through points.. (S.R.3.77.2)

148. The Loco Pilot shall whistle intermittently when his engine explodes detonator and take every possible caution including _____as necessary.(G.R.3.78.(2)(a))

149. After exploding the detonator, the Loco Pilot shall proceed cautiously upto a distance of _____ and can pick-up normal speed if there is no obstruction beyond that distance. (G.R.3.78(2)(vi))

150. When the Loco Pilot notices a signal warning of an obstruction, except detonator, he shall _____immediately. (G.R.3.78.(4))

151. When the Loco Pilot notices a signal warning of an obstruction and no further details are noticed, after stopping _____by day/night, he shall proceed _____ up to the next block station. (G.R.3.78.(5))

152. Signal warning board is located at a distance of _____ meters in rear of a stop signal. (S.R.3.78.1)

153. The LP shall clearly understand that if no signal indication is available from the Warning board he should control the speed as if the stop signal ahead is at _____.(S.R.3.78.1)

154. The Loco Pilot and guard will be given _____ no. of L R trips before they are booked for regular working including one trip between _____ &_____hours. (S.R.3.78.2.1)

155. If Loco Pilot has not operated on a section for 3 to 6 months, he should be given_____ road learning trips. (S.R.3.78.2.2)

156. A _____ to record observations of Loco Pilot during his run must be maintained in all lobbies.(S.R.3.85)

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## CHAPTER – IV

1. The control office should advise the standard time by a general call to the stations at _____daily. All SMs should correct the time and make an entry in the _____.(S.R.4.01)
2. Guard shall set his watch by the station clock or the clock at the authorized place of reporting for duty and communicate the time to the LP and make entry in the _____.(S.R.4.03)
3. ODC shall be allowed to be attached by a train for transport only with the prior sanction of _____.(App.VIII 9.2)
4. All Passenger carrying trains should run at _____ even under normal circumstances subject to observance of permanent / temporary speed restrictions in force. (S.R.4.08.1.1)
5. Loco Pilot shall not make up between any two stations more time than is allowed in _____(G.R.4.08(2))
6. Maximum speed of a train shall be restricted to _____kmph on Absolute block system and _____kmph on Automatic block system during dense fog. (S.R.4.08.2)
7. Unless permitted under approved special instructions the maximum speed permitted on loop line is _____ kmph. (G.R.4.10(1))
8. The speed of trains over Non-Interlocked points, turnouts and crossover shall not exceed _____ KMPH normally(G.R.4.10(1))
9. The speed of a passenger/goods train on 1 in 8 ½ turnout (straight switch) is restricted to _____/_____ kmph. (S.R.4.10)
10. The speed of a passenger/goods train on 1 in 8 ½ turnout (curved switch of 52/60 km rails) on PSC sleepers is restricted to _____ kmph. (S.R.4.10)
11. Isolation is necessary where the trains are permitted to run through a station at a speed exceeding _____ kmph. (G.R.4.11(1))
12. Engine pushing is not permitted without prior permission of _____.(S.R.4.12.2.1)
13. When engine is pushing a train and Guard is travelling in brake van, which is leading, the speed shall not exceed _____kmph, and Guard is not travelling in leading vehicle, the speed shall not exceed _____kmph.(S.R.4.12.2.3)
14. During engine pushing, in the absence of PHS of Guard, LP shall _____ (S.R. 4.12.2.4)
15. When engine is pushing a train without guard the duties of guard is devolved on _____(S.R.4.12.3)

16. When the train is working without BV, while pushing back the LP has to observe the _____ signals of guard and proceed with _____speed. (S.R.4.12.4)
17. An engine exclusively deployed for shunting purpose shall put on _____ colour marker lights on both sides. (G.R.4.14(2))
18. When head light is defective after putting marker lights 'on' the train can go with a restricted speed of _____kmph or _____(G.R.4.14(5))
19. In normal position side lights shall show _____towards rear and _____towards engine.(S.R.4.15.1)
20. At night, when passenger carrying train waiting at a station for precedence, Guard shall change the side light adjacent to the line on which the following train is to be admitted, to show _____light towards rear _____light towards engine. (S.R.4.15.1)
21. Side lights may be dispensed with for_____and _____trains. S.R.4.15.4)
22. Last vehicle indicator during night shall be _____red light.(G.R.4.16.1.(b))
23. When an assisting engine is attached in rear of a train, _____ shall be fixed behind the assisting engine. (S.R.4.16.2)
24. It will be the duty of the Guard to ensure that _____ is affixed only in the rear of the last vehicle. (S.R.4.16.3)
25. Light engines or coupled engines shall have _____in rear. (S.R.4.16.4)
26. When a Station Master observes that a train has passed without tail lamp/tail board, should _____bell signal to rear and _____bell signal to station in advance. If BPAC is not provided, he shall also stop the trains proceeding on adjacent line and issue _____.(S.R.4.17.2.2)
27. In case of obstruction on track, Guard must exhibit the _____ hand signal lamp at night or _____during day,(G.R.3.65)
28. Whenever alarm chain is pulled the Guard shall record the fact in the _____ and submit a special report to _____.(S.R.4.18.2)
29. Guard shall report to the Station Master of the next important station, any stoppage or other irregularities in train working record the details in _____and send a special report to the _____. . (S.R.4.18.2)
30. The full form of OTL of BV equipment is _____.(S.R.4.19.4.1.1)
31. Dy.SS/TNC of the originating station shall record the intactness and availability of the BV equipment in the register and obtain acknowledgement of the _____in the register apart from VG, (S.R.4.19.4.4.1)
32. Fire-Extinguishers: Replacement shall be done once in _____.(S.R.4.19.4.6.1)
33. The 2/4 wire telephone will be tested once in _____ by SE/JE-Tele. (S.R.4.19.4.6.2)
34. .Contents of the EL Box shall be tested once in _____ by the SE / JE-TL. (S.R.4.19.4.6.3)

35. Guard shall obtain acknowledgement of Dy.SS or SE / JE-C&W in the _____ at destination station about the intactness of OTL and seal. (S.R.4.19.4.8.7)
36. In case of emergency the Assistant Loco Pilot can be authorized to drive the train at a restricted speed not exceeding _____ up to the nearest point where he can be relieved. (S.R.17.09.5.7)
37. When leading compartment of an electric engine is defective and the train is driven from trailing compartment by Assistant LP, the speed shall not exceed _____ kmph.(S.R.17.09.12.2)
38. When leading compartment of an electric loco is defective and the train is driven from trailing compartment by loco pilot the speed shall not exceed _____ kmph. (S.R.17.09.12.3)
39. In any case, there shall not be more than _____officials/staff including engine crew at any time on the engine except in emergencies.(S.R.4.22)
40. The number of persons permitted to travel in the brake-van of goods trains, in addition to the Guard, should not exceed _____.(S.R.4.23.1)
41. In emergency goods train without brake van is ordered by _____ /_____ (S.R.4.23.2.1)
42. Maximum number of coaches in addition to the officers inspection coach attached in rear of SLR of Passenger or Mail&Express trains is_____. (S.R.4.24.1)
43. Maximum number of bogies or its equivalent attached by a goods train is _____bogies. (S.R.4.24.2)
44. Only _____damaged vehicle or damaged engine shall be attached behind the rear brake van of goods/mixed train. (S.R.4.24.4)
45. Attaching of damaged vehicle/engine may done during _____and in clear weather. (S.R.4.24.4)
46. Damaged vehicle/engine when attached to a goods train shall be accompanied by _____.(S.R.4.24.4)
47. All irregularities in connection with the working of trains or accidents must be reported in the _____by Guard. (S.R.4.25.2.1)
48. Entries of vehicles attached to a train at intermediate stations must be made by the _____ at those stations. (S.R.4.25.3.1)
49. Before starting, the guard will be responsible for checking the load on the train with the entries on the _____of wagon numbers, booking and destination stations, type of wagons etc., (S.R.4.25.3.5)
50. In an emergency, a goods train without Guard can be ordered by _____. S.R.4.25.4)
51. _____shall be issued to the Loco Pilot by Station Master with necessary endorsement stating that the train is to run without Guard. (S.R.4.25.4.3)
52. Where IBS is provided, the SM shall not dispatch a train in rear of the train running without Guard reaches the _____.(S.R.4.25.4.4)

53. In Automatic block territory, no train shall be allowed to follow a train without brake van/guard until it arrives complete at the next _____(S.R.4.25.4.9)

54. Running of goods train without_____ is strictly prohibited during tempestuous weather, total interruption of communications and during temporary single line working.(S.R.4.25.4.6)

55. Running of goods train without Guard should not be permitted if the last vehicle is not _____.(S.R.4.25.4.10.4 note 2)

56. Trucks loaded with girders, machinery, long timber etc. shall be inspected by Guard at stopping stations and if the fastenings have _____ or the loads _____ they shall be re-secured before the train is allowed to proceed or else the trucks detached. (S.R.4.28)

57. In case a hot axle box found running between stations, the train shall be brought to a _____immediately and after attending LP should exercise his discretion with regard to the _____. (S.R.4.29.2)

58. When SM receives advice of Hot axle, that train shall preferably be admitted on _____ line. (S.R.4.29.3)

59. The Fit to proceed (Brake power certificate form No. _____ must be possessed by the Loco Pilot of the train till the train completes its _____.(S.R.4.31.4)

60. At the station after loading/un loading; or tippling; or while clearing stabled stock from a station; or incase of invalid BPC, the _____check shall be conducted. (S.R.4.31.5)

61. Whenever train engine is changed, _____test should be conducted and same shall be recorded by the LP and Guard in their_____.(S.R.4.31.5)

62. When a train is ordered without guard and GLP check is necessary _____ is completely responsible for conducting GLP check with assistance of _____ from the station.( **SR** . 4.31.5)

63. The time prescribed for Guard and Loco Pilot (GLP) check of train consisting of 60 units is _____ minutes (**SR** . 4.31.5)

64. When the train is ordered without guard, if GLP check is necessary and Loco Pilot is alone conducting GLP check, _____ minutes time is allowed for a rake consisting of 60 units. (Unit may be a 4 wheeler or 8 wheeler).( **SR** . 4.31.5)

65. Guard and Loco Pilot shall prepare a GLP check memo jointly on a plain sheet in _____.(S.R.4.31.5B)

66. At stations, where PA system is not provided, SM gives permission to Guard to stat the train by ringing _____beat for Down train, _____beats for Up trains and 4 beats for branch line.(S.R.4.35.2.1.2)

67. Guard shall report to Station Master of the next station, any stoppage or other irregularities in train working, record the details in the _____.(S.R.4.36)

68. While at station, the Loco Pilot is to obey _____ orders.(GR.4.39(b))

69. The Loco Pilot and Assistant Loco Pilot shall _____ each signal; call out the _____ of the signal to each other. (S.R.4.40.1)
70. The validity of CC rake BPC is _____days or _____km whichever is earlier.(C&W JPO 7/2014)
71. The validity of Premium rake BPC is _____..(C&W JPO 7/2014)
72. The grace period given for Premium end to end BPC is _____.(.(C&W JPO 7/2014)
73. The validity of End to end BPC is _____.(.(C&W JPO 7/2014)
74. LP and ALP shall look back frequently during journey to see whether the train is following in a _____manner.(G.R.4.41)
75. The Loco pilot /ALP and Guards must look back at the Gang Staff and Level crossing Gates to see whether any _____signal is exhibited by them. (S.R.4.41.2)
76. After clearance of the loop line cross-over points, when a train passes through loop lines at a station the guard and LP shall _____. **(SR 4.42.2.7)**
77. S M shall arrange points man to show all right signals for a run through train from _____ side. (S.R.4.42.5.1)
78. Loco Pilots/Motormen of DEMUs, DHMUs, EMUs and MEMUs are _____ from exchanging 'All right' signals. (S.R.4.42.7.4)
79. Cut off angle cock must be in _____ position except front side of loco and rear side of L V to ensure brake continuity. (App.VI-2.1)
80. A goods train having 56 wagons, the B P pressure in engine shall be _____ and in BV shall be_____.(App. VI -2.2)
81. A goods train having 58 wagons, the B P pressure in loco shall be _____ and in B V _____.(App. VI -2.2)
82. Normally _____ minutes allowed to goods trains to start after engines have been attached. However, in case of formations tested by Vacuum Exhausters/Air-Compressors, the time taken for starting the train, after engine is attached, shall not exceed _____ minutes. (App. VI -3.4)
83. Empty / Load handle shall be kept in load position when the gross load is above _____ Tones. (App.VI-5.5)
84. "At the first opportunity, after starting, destroy a part of vacuum/air pressure in order to get an idea of the _____ of your train. (App. VI -6.1)
85. When train is stabled for more than _____ hours at station other than loading and unloading station, fresh B P C is required.( .(C&W JPO 7/2014)
86. Fresh B P C is required whenever more than _____ eight-wheeler vehicles are attached or detached, to/from a train. (App.VI – 13.1)
87. All passenger carrying trains of all description shall have _____operative vacuum cylinders with effective brake power at the starting station. (App. VI -14.1)
88. F P pressure in loco shall be _____ and in BV _____.(App. VI -14.2)

89. D V isolating handle in vertical position indicates DV is in _____ position. (Maintenance manual for wagons -802)

90. D V isolating handle in horizontal position indicates D V is in _____position. (Maintenance manual for wagons -802)

91. Reduction in B P pressure causes _____ (Maintenance manual for wagons -802)

92. Creation of B P pressure causes _____. (Maintenance manual for wagons -802)

93. All _____ trains shall have Twin Pipe working. (App. VI -14.2)

94. The effective brake power in case of Mail/Express at the originating station should be _____% and enroute should not be less than_____%(App. VI -16.2)

95. The effective brake power in case of passenger and CC rakes at the originating station should not be less than _____% and enroute shall be _____(App. VI -16.2)

96. When a train is held up at F S S for more than _____ minutes, the Loco Pilot shall depute Assistant Loco Pilot to go to Station. (G.R.4.44.(1))

97. When a train is held up at F S S for more than _____ minutes, the Guard shall _____in rear. (G.R.4.44.(1))

98. If Guard notices any danger condition in the train, he shall try to attract the _____. If he failed to attract the attention, the Guard may apply _____gradually to stop the train. (G.R.4.45.(1to 4))

99. Whenever the engine is to be detached out side station limits when the gradient is not steeper than 1 in 600 hand brakes of _____vehicles must be applied. (S.R.4.48.2)

100. Whenever the engine is to be detached out side station limits when the gradient is steeper than 1 in 600 hand brakes of _____ vehicles must be applied. (S.R.4.48.2)

101. With in station limits where gradient is 1 in 400, to detach the loco of goods train, BV and_____ number of wagons' hand brakes are to be put ON.(S.R.4.57.1)

102. When working a passenger train the Loco Pilot shall ensure that the passenger bogies do not over shoot the _____.(S.R.4.49.1)

103. Whenever a train is stopped on a gradient for any reason like accident, loco failure, OHE supply failures etc., it is essential and important to apply the _____ and _____ so as to hold the train safely on the gradient. (S.R.4.49.2)

104. When SM / Station Staff does not exchange ' all-right' signals, the Loco Pilot shall give _____ engine whistle code.(S.R.4.50.2)

105. The Whistle Board in case of approach to un manned level crossing gates is at a distance of _____ meters. On single line it should be reduced to _____meters when view is clear. (S.R.4.50.3)

106. When engine whistle fails on run, after clearing block section, the loco shall be attended or it shall be _____.(S.R.4.50.4)

107. Engine Whistle code for Guard to Protect in rear is _____(S.R.4.50.5)

108. Engine Whistle for Guard to come to Engine is _____.(S.R.4.50.6)

109. Passing Signal at 'ON' with proper Authority, the LP shall sound _____Whistle (S.R.4.50.7)

110. Engine whistle code 0 0 - indicates _____, _____,_____. (S.R.4.50.11)

111. The Bell Code used in EMU/DMU trains for Automatic Signal or IBS passing in 'ON' when telephone is defective is _____.(S.R.4.51.3)

112. The Bell Code used in EMU/DMU for Zone of Speed restriction is over and to resume normal speed is _____.(S.R.4.51.6)

113. Whenever train stopped without clearing fouling mark, Guard shall inform the SM at once and _____to prevent any movement on the fouled line.(G.R.4.56)

114. At Stations, LP of the train shall bring his engine to a stop as close as possible to the _____to ensure clearing of the fouling mark. (S.R.4.58.2)

115. Material train shall be ordered to work with the permission of ____ (S.R.4.62.1.1)

116. To despatch a material train for working in the block section and return back to the same station, _____authority is given to the LP.(S.R.15.06.4)

117. To despatch a material train for working in the block section and proceed to the next station, _____authority is given to the LP.(S.R.15.06.4)

118. Dividing of material train in the block section where the gradient is steeper than _____ is prohibited. (S.R.4.62.6.1)

119. The B P C of a material train of CASNUB rake is valid for _____days without any endorsement by TXR. (C&W JPO 7/2014)

120. The B P C of a material train of UIC rake is valid for _____days with endorsement by TXR once in _____. (C&W JPO 7/2014)

121. The required brake power of material train shall be _____. (S.R.4.62.11.2)

122. The responsibility of stabling a material train at station lies with __. (S.R.4.64.1.1)

123. The maximum speed of T T M is _____ kmph and over points and crossing is _____kmph.(S.R.4.65.1.1)

124. TTM is permitted to work in the block section only during _____(S.R.4.65.6.3.1)

125. When TTM's are following each other the distance to be kept between each is _____mts. (S.R.4.65.7)

126. When TTM's are following each other the speed of the second TTM is restricted to _____KMPH. (S.R.15.06.4.3)

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## CHAPTER – V

1. The SWR must be signed by _____and _____(S.R.5.06.2)
2. SWR diagram must be signed by the _____, _____ and _____.(S.R.5.06.4)
3. SWR should be issued afresh once in _____years or after issue of _____ amendment slips which ever is earlier. (S.R.5.06.8)
4. Fresh declaration shall be obtained from a member of staff resumes duty at a station after an absence of _____consecutive days or more. (S.R.5.06.13)
5. In case of T/A to T/H 602, T/J 602, T/609, _____to _____,T/A to T/D 912, T/A 1525 and T/1525, the prescribed printed forms shall only be used. (S.R.5.07)
6. To receive a train on to an obstructed line, the Loco Pilot shall be given _____ authority where there is no calling ON signal and signal post telephone. (S.R.5.09)
7. While receiving a train on obstructed line, SM shall arrange to post one competent Railway servant to show _____ hand signal from _____ meters before the obstruction. (G.R.5.09(4))
8. To receive a train on to non signalled line, the Loco Pilot shall be given _____(Note below G.R.5.10)
9. To start a train from a station having common starter, the Loco Pilot shall be given _____+_____+ _____.(G.R.5.11(1))
10. To despatch train from non-signaled line, where tangible authority is not given as A T P, _____ authority should be given in addition to ATP.(S.R.5.12)
11. As per G & S R Shunting operations shall be controlled by _____or _____or_____.(G.R.5.13(1))
12. The speed during shunting operations shall not exceed _____.(G.R.5.13(3))
13. The shunting staff need not accompany during shunt movement of light engine/s on to a _____.except in case of doubt. (S.R.5.13.1)
14. Slip coaches shall not be kept on blocked line in the rear of a _____.(S.R.5.13.2)
15. While performing shunting on passenger carrying trains, the shunting engine or train engine with or without sectional coaches, before coming on to the formation should be stopped _____ metres before the formation.(S.R.5.13.3)
16. At station where separate shunting staff are not employed, shunting operations shall be personally supervised by _____.(S.R.5.14.1)
17. While backing a full train from one line to another via main line the shunting supervision is done by _____.(S.R.5.14.2)

18. Carriages containing passengers shall not be moved for shunting without the personal order of the _____and _____.(S.R.5.14.4)
19. While performing shunting, the points which are not protected by signals must be locked by _____ or by _____ method. (S.R.5.14.5)
20. While shunting wagons containing explosives, the supervision shall be done by _____.(S.R.5.14.6)
21. The maximum speed while shunting of wagons containing explosives and P O L products shall be _____ kmph. (S.R.5.14.6(b))
22. Where shunting operations are supervised by Guard/SM, Loco Pilot shall be given Form No. _____(shunting instruction form) (S.R.5.14.9)
23. Shunting of roller bearing vehicle on a steep gradient shall be done only with locomotive attached towards the _____.(G.R.5.20(b))
24. For shunting purpose_____ gradient is considered as steep gradient for roller bearing wagons and _____ gradient for non roller bearing wagons. (G.R.5.20(b)Note)
25. Maximum Hand shunting speed is _____ kmph. (S.R.5.20.5.6)
26. Vehicles/load/train be stabled at station must be secured by using atleast _____ chains with padlocks and _____ wedges at _____end.(SR 5.23)
27. If hand brakes of any of the first six wagons at each end cannot be applied, hand brakes of _____ wagons should be applied till six wagons in total are achieved. .(SR 5.23)
28. The hand brakes must be operated under the personal supervision of the Guard, and in the absence of Guard, by _____ on duty.(SR 5.23)
29. Remarks should be made in _____ and _____ in Red ink to the effect that 'Line No.____' is blocked and all precautions for securing the load have been taken' as prescribed above.(SR 5.23)
30. After any load/train/loco is stabled, the SM must inform the _____ supported by _____ that all laid down precautions for stabling and securing the load/train/loco have been taken.(SR 5.23)
31. If LP is required to leave the loco unmanned he can do so only after getting a _____ from SM**.** .(SR 5.23)
32. Before leaving the Station/Yard, the Loco Pilot and Guard should jointly sign record in the _____ register to be maintained with SM. .(SR 5.23)

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## CHAPTER – VI

1. When Loco Pilot of the train experienced any abnormal condition in the track, stop his train at _____ of next block station and inform SM.(SR 6.07.1(a))

2. When Loco Pilot of the train experienced any abnormal condition in the track, in case of IBS and Automatic block territories, he must inform _____ and _____to stop the movement of trains..(SR 6.07.1(a))
3. When 'lurch' is reported and subsequently a train is sent with engineering official, caution order is given to the LP to _____ short of the expected portion of the track .(SR 6.07.1(d))
4. When 'lurch' is reported and subsequently a train is sent in the absence of engineering official, caution order is given to the LP to stop dead and proceed at _____kmph if considered safe otherwise _____to station. SR 6.07 (e).
5. Rail fracture of less than 30mm, speed of first train shall be _____ kmph, the speed of second and subsequent trains shall be _____ kmph. (SR 6.01.3.1).
6. The Station Master who received the message about rail fracture through LP, shall arrange to issue caution order of _____kmph over the fractured rail.(SR 6.01.3.3)
7. Rail fracture of more than 30 mm or multiple fractures, certification by _____ is required to pass trains. (SR 6.01.3.4)
8. On Double line to dispatch the train against the established direction of traffic for any reason other than introduction of TSL working, the SM shall issue _____to Loco Pilot. (SR 6.02.5)
9. TSL working shall be introduced between the nearest stations provided with - _____ on either side of the obstruction.( SR 6.02.1.4 )
10. During T S L working the block instruments shall be kept and locked in _____ position. (SR 6.02.1.4)
11. _____train shall not be dispatched on T/J.602. (SR 6.02.5)
12. When a train is dispatched on T/J602(shall not be passenger carrying train), the speed shall not exceed _____ kmph. ( T/J 602 (SR 6.02.5)
13. During Temporary Single Line working, Loco Pilot and Guard shall be given authority_____.(SR 6.02.1.8)
14. During T S L working, the speed of first train shall be _____ kmph.(SR 6.02.1.11)
15. During T S L working the speed of second and subsequent trains shall _____( SR 6.02.1.11).
16. During TSL working when the train is proceeding on wrong line, the train shall be piloted out on a _____. ( SR 6.02.1.14.1)
17. During T I C on double line _____ is the A T P authorizing the Loco Pilot to proceed with a restricted speed of _____ kmph.( SR 6.02.3.3)
18. When trains are dealt on T/C 602, the time interval between two trains shall be _____ minutes.( SR 6.02.3.5)
19. During T I C on Single Line /Double line and T S L working, except _____ signal, all other signals can be taken OFF ( SR 6.02.3.6).

20. During TIC on double line, when a train is stopped in the block section on account of accident, Guard shall protect the train by placing one detonator at _____meters and two detonators 10 meters apart at _____meters from the train.( SR 6.02.3.9)
21. During TIC on Double line, if no one from the station turns up within _____minutes, Guard shall protect the train in rear and ALP may be sent to station. (SR 6.02.3.12)
22. When motor trolley / Tower car is sent for opening communication, it shall be accompanied by _____(SR 6.02.4.2.4).
23. Light engine/vehicle which is going to open communication shall proceed on _____ authority.( SR 6.02.4.3)
24. When enquiry is made for more than one train during TIC on S/L, _____ forms are given to the light engine/vehicle which is going to open communication. ( SR 6.02.4.4.2)
25. Light engine/vehicle, which is going for opening of communication, shall proceed with a restricted speed of _____ kmph.(SR 6.02.4.6.1)
26. After opening communication _____is A T P for the light engine/vehicle to come back.( SR 6.02.4.9)
27. UP / DN CLCT is prepared in Form No._____/_____(SR 6.02.4.15)
28. When there is even flow of trains, enquiry and reply messages are sent through _____.( SR .6.02.4.16)
29. After opening the communication, the speed of first train waiting shall be _____.( SR 6.02.4.18)
30. If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _____ kmph, after a clear interval of 30 minutes.( SR 6.02.4.18)
31. As soon as any one of the communication restored, the Station Master must send a message to the SM of other station in the prescribed form _____.(SR 6.02.4.22)
32. If it is required to dispatch a relief engine or relief train into obstructed block section, it can be dispatched by issuing _____.( SR. 6.02.6.1)
33. On Double line, protection in_____ is required(in addition to adjacent line and in rear) during TSL working or when assistance has been asked.( G.R 6.03.1(g) )
34. If a passenger train/goods train does not turn up even after normal running time and_____/_____ minutes, S M shall arrange to send competent railway servant.(BWM Part I 5.5.2)
35. If for any reason, a train is brought to a stand for more than _____minutes, the hand brakes of Locomotive and formation brakes shall be applied.( SR 6.04.2.1)
36. If that stoppage happened (more than 15 minutes) on a grade steeper than 1 in 150 for roller bearing stock, the hand brakes of 1/3 wagons of the train or next to engine hand brakes of _____wagons and next to brake van hand brakes of

_____ wagons whichever is more shall be applied in addition to the application of brake van hand brake. (SR 6.04.2.1)

37. When engine disabled, if the LP expects that putting the engine in working order will take more than _____ minutes, he will request the Guard to arrange for a relief engine. (SR 6.05.4)

38. If Loco Pilot enters block section with out authority and subsequently sends his Assistant Loco Pilot with a memo to SM in rear, that S M shall give _____( SR 6.06.2)

39. If Loco Pilot enters block section with out authority and subsequently sends his Assistant Loco Pilot with a memo to SM in advance, that S M shall give _____.( SR 6.06.2)

40. When a train parts, If the Loco Pilot finds it necessary to proceed to the station ahead, he shall, on approaching the station give _____whistle and act as per aspects of signals of station/gate.(SR 6.08.1.1).

41. When a train parts on its journey, the tonnage of the train shall be jointly checked by _____ and the _____ and also by _____(SR 6.08.1.3).

42. When train stopped due to inability of the engine to haul the load and If it is not possible to get the relief engine or push back the train, the crew can decide to _____ the train.( SR 6.09.1)

43. During divided train working, the Guard will prepare a written permission in the form _____and give to Loco Pilot to proceed to the next station.( SR 6.09.3.2)

44. During _____, the second portion of the train left in section shall be protected in the front by Guard.(SR 6.09.4)

45. During divided train working, on approaching the station, the LP shall stop at home signal eventhough it is off and give __ 0 __ 0 whistles. The SM and LP shall contact each other on _____/_____.and SM may then exhibit _____ hand signals to LP to enter into station. (SR 6.09.5)

46. The light engine which is coming on T/609 to pick up the second portion shall come with a restricted speed of _____ kmph.(SR 6.09.7)

47. When a goods Train runs without Guard has to be divided, the Loco Pilot shall bring first portion by preparing a _____.( SR 6.09.9.1)

48. When a train without guard is divided in the section, after dropping the first portion, light engine returning to pickup second portion shall proceed on _____authority. ( SR 6.09.9.4)

49. In case of fire accident in a passenger carrying train, the first objective to be achieved is to _____( GR 6.10.1)

50. If a fire is noticed in a running train, the LP shall at once stop the train. The vehicles behind the one on fire shall be _____and the front portion of the train then moved forward to prevent the catching of fire.(S.R.6.10.1.1)

51. In the event of a fire on fire on any part of the electrical equipment, the affected part is first to be completely _____from the Distribution System. (S.R.6.10.11)

52. _____shall not be used for extinguishing fires on electrical quipment..(S.R.6.10.11)

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## CHAPTER – VII, VIII & IX

1. The System of working used between Lingampally – Secunderabad Junction – Moula-ali of SC division is _____.( SR 7.01.1)
2. On SCR single line, Automatic Block System is used between _____and _____.(SR 7.01.II)
3. On Absolute Block System, no train shall be allowed to leave a block station unless _____has been received from advance Block station.(GR 8.01(1) (a)
4. The adequate distance (BOL) beyond FSS on multiple aspect signaling for granting line clear is _____.(GR 8.01(2)(b).
5. At a class 'B' station on double line equipped with MACLS, to grant line, clear line must be clear up to _____or _____.(GR 8.03 (1) (c) (ii)
6. At a class 'B' station on single line equipped with MACLS, to grant line, clear line must be clear up to _____or _____or_____(GR 8.03(2)(c) (ii).
7. At a class 'C' station line clear shall not be given unless- the whole of the last preceding train has passed complete at least 400 metres beyond the Home signal and is_____.(GR 8.04 (a)
8. One important essential required for automatic block system is that the track shall be provided with continuous _____or _____(GR 9.01(1) (a)
9. The line between the block stations, when required, be divided into series of _____Sections. GR 9.01(1) (b)
10. The automatic signal shall not assume OFF position unless the line is clear not only upto the next Automatic signal but also for an adequate distance of not less than _____metres on D/L ( GR 9.01.(1) (c)(i)
11. Automatic stop signal is identified by _____board GR 3.17(1)
12. Semi automatic stop signal is identified by _____light when working as automatic signal. GR 3.17(1)
13. Normal aspect of Automatic signal is _____ (GR .3 37(2)
14. All Guards, Loco Pilots, Assistant Loco Pilots, Motor men who are required to work in automatic block system shall undergo one day intensive training and a certificate shall be renewed once in _____months. (SR 9.01 4)
15. SMR/SS/TI shall renew the competency certificates (Automatic section) for the _____and LI for _____. (SR 9.01.5)

16. When Loco Pilot passes an automatic signal at ON, he shall observe an SR of _____.( S.R 9.02.3)
17. The Guard shall show a _____hand signals towards the rear when the train has been stopped at an Automatic stop signal. (GR 9.02(2)
18. After passing an automatic signal at ON, the Loco Pilot of the following train hauled by any locomotive shall ensure that a minimum distance of _____metres is maintained between his train and preceding train. The distance may be reduced to _____in case of EMU train.( SR 9.02.7.1)
19. On Automatic Block System, single line, the _____ shall be established only after line clear has been obtained.( GR 9.03(1)(b)
20. The minimum equipment of fixed signals in automatic block system on single line shall be _____and _____signals (GR 9.04)
21. When LSS fails on single line automatic block system, _____shall be given to Loco Pilot and the first train shall go with a restricted speed of _____kmph (SR 9.06.4 and 5)
22. When LSS fails on double line automatic block system, _____shall be given to LP of the train to go with a restricted speed of _____kmph (SR 3.12.3).
23. When a train is stopped in automatic block signaling section on single line and train cannot proceed further, Guard shall protect in rear duly placing one detonator at _____ meters and 2 detonators 10 meters apart at _____ mts(SR 9.10.3).
24. When a train is stopped in an automatic block signaling section on double line and train cannot proceed further, the LP/ALP shall protect adjacent line in front duly placing detonators as per rule GR & SR _____.(SR 9.10.4)
25. During prolonged failure of signals but communications are available on DL Automatic Block System, the authority given to Loco Pilot is_____

    and the speed of first train is restricted to _____kmph.(SR 9.12.1 5.1)
26. When signals and communication fail on DL Automatic Block System, the authority given to the Loco Pilot is _____which authorizes the LP to go with a restricted speed of _____kmph.(SR 9.12 2.2.4)
27. The time interval between two trains during signal and communication failure on DL Automatic Block System shall be _____minutes.(SR 9.12.2.2.5)
28. During TSL working Automatic Block System, the first train proceeding on right line when signal and communications are working shall proceed on _____authorities (SR 9.12.3.14.1.1)
29. During TSL working Automatic Block System when signals and communications are working, the second and subsequent trains proceeding on right line shall proceed on _____. (SR 9.12.3.14.1.2)
30. The first train running in wrong direction during TSL working on Automatic block system shall proceed with a restricted speed of _____kmph.(SR 9.12.3.10)

31. The second and subsequent trains running in the wrong direction during TSL working on Automatic block system shall proceed with a speed of _____. (SR 9.12.3.10)
32. Authority to dispatch a light engine on single line Automatic Block system during prolonged failure of all signals when no communications are available is _____ (SR 9.12.5).
33. To dispatch a relief loco/train into the occupied block section _____is given as the ATP for the relief loco/ train. in the automatic block system. (SR 9.12.6)
34. Relief loco/train shall proceed with a restricted speed of _____kmph(SR 9.12.6.1.3)
35. On Automatic Block System when the train is unable to proceed further, obtain permission only from _____to push back. Such permission can be given only provided that _____.(SR 9.13.2)
36. A fixed signal which can be operated either as an Automatic stop signal or a manual stop signal, as required, is called _____.(GR 3.12(1) (b)
37. Gate stop signal in Automatic signaling territory is distinguished by the provision of _____and illuminated A marker when gate is closed condition. (SR 9.15.1)
38. When Gate signal in Automatic signaling territory is at 'ON' and 'A' marker is illuminated, LP shall follow the rules of passing _____signal at 'ON'.(SR 9.15.3)
39. When Gate signal in Automatic signaling territory is at 'ON' and 'A' marker is not illuminated, LP shall follow the rules of passing _____signal at 'ON' till he passes the gate and further follow the rules of passing _____signal at 'ON'. (SR 9.15.3)
40. LP shall pass a Semi Automatic signal with extinguished .A' marker at 'ON' on receipt of written authority _____+PHS. (SR 9.14.6)

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## CHAPTER NO. XIV, XV, XVI, XVII

1. No person shall operate the electrical block instruments unless he holds a _____issued by Principal/ZRTI which shall be valid for a period of _____ years.(GR 14.04(1).
2. _____ is the normal authority to proceed on Single Line token less sections/Double line sections. (G.R.14.08)

3. At stations where cabin is not provided, the Guard of the train, after verifying the last vehicle is standing clear of the fouling mark, shall give an all right signal to Station Master by _____by day/night.(SR 14.10.3.1)

4. The Station Master on duty shall send the “train out of block section” signal only seeing the _____.( SR 14.10.3.2)

5. Resetting button _____ is used to reset the axle counter whenever the IB Home is passed at ‘on’. ( SR 14.13.1)

6. Where IB signal is provided, resetting button _____is used to give co-operation to the station in rear. ( SR 14.13.1)

7. Where IB signal is provided, resetting button _____is used to reset the analog axle counter due to failure or improper counting. ( SR 14.13.1)

8. Where IB signal is provided, when reset is initiated, digital axle counter enters into preparatory reset mode. The first train shall be dealt on _____.( SR 14.13.2.3 (a)

9. When K1 indication appears, on complete arrival of the train at the station in advance, SM must inform arrival to SM of rear station under _____ and make all entries in the TSR/Station Diary in _____. ( SR 14.14.1.1.4)

10. When a train passes IBS at ‘on’ and k1 indication appears and IB section is occupied by a train, SM shall advise _____to stop the train. (SR 14.14.1.1.2.1)

11. On Double line or on Single Line when block instrument is defective _____ is given as A T P for the Loco Pilot.(SR 14.25)

12. _____block means blocking of a portion of line for maintenance work by more than one department. ( SR 15.06.1.3)

13. _____block means a block, availed from either end of the block section between two block stations simultaneously. ( SR 15.06.1.4)

14. Engineering works comes under category III (loading/unloading of ballast) requires _____. ( SR 15.06.2.1.6.1)

15. Engineering branch will arrange with the Operating branch for the issue of a circular notice, which shall be valid for _____. ( SR 15.06.2.1.6.3)

16. After issuing circular notice, the DOM will issue an all concerned message at least _____days in advance. ( SR 15.06.2.1.6.4)

17. The engineering official, who shall not be below the rank of a _____will be authorized to obtain blocks on the field telephone.( SR 15.06.2.4.1)

18. When more than one TTM/Tower Car are programmed to go in the same block section and return to the same station the authority for the first TTM/Tower car is _____/_____and authority for the subsequent TTM/Tower car is _____ (SR 15.06.4.!(c).

19. When more than one TTM/Tower Car are programmed to go in the same block section and proceed to the next station the authority for the first TTM/Tower car is

_____and authority for the subsequent TTM/Tower car is _____/_____( SR 15.06.4.1(d).

20. _____authority is given to the Tower Wagon to go into the section work and return to the same station during power block. ( SR 15.06.4.2(a)
21. _____authority is given to the Tower Wagon to go into the section work and proceed to the next station during power block. (SR 15.06.4.2(b)
22. The Speed of the Tower Wagon when following each other is restricted to _____kmph during day/night and the distance to be kept is _____meters.( SR 15.06.4. 3)
23. When material train, TTM and Tower wagon are permitted in the same block section to work the distance to be kept between them is _____meters and the speed I for the following is restricted to _____kmph during day/night ( SR 15.06.4.4.1)
24. During integrated block/shadow block, if it is necessary to dispatch material train and TTM and tower wagon into the block section, they shall maintain the speed of _____kmph when view is clear and during day time and _____kmph when view is not clear and during night time.( SR 15.06.4.4.1/2).
25. Number of material trains permitted during the line block or integrated block or shadow block is_____. (SR 15.06.4.4.2)
26. During line/integrated/shadow block, if the units are allowed on to the wrong line, units shall be piloted out on _____after ensuring correct setting, clamping and padlocking of the points. ( SR 15.06.7)
27. During line block, to receive the units coming on right line, the first unit can be received on _____and the following units will be admitted on _____or written authority T/509.( SR 15.06.10.1)
28. During line/integrated/shadow block, if the units are coming on wrong line, units shall be received on _____after ensuring correct setting , clamping and padlocking of the points. ( SR 15.06.10.2)
29. On completion of work and after ensuring that the block section is free, the respective official in charges of various units will hand over to the SM a _____.( SR 15.06.11.1)
30. When the train is required to stop and the restriction is likely to last only for a day or less, a Banner flag shall be exhibited at a distance of _____on BG. In addition, stop hand signal shall be shown at a distance of _____m from the place of obstruction, at the Banner flag and at a distance of 45 m from the three detonators.( GR 15.09.1(a))
31. Stop indicator is located at____ metres from obstruction (work spot)(G.R15.09.1.b)
32. Speed indicator is located at _____from the obstruction (work spot). (G.R 15.09.1. (d))

33. Engineering indicators are (a)._____ b)_____ (c)_____ (d) _____ (e) _____(SR 15.09.1.1.2)
34. Caution indicator is located at _____ metres before the spot on BG and _____metres on MG. (SR 15.09.1.2.1)
35. Loop line clearance Board with legend “T/Loop ” to be provided at stations at a distance of _____ after the loop line cross over point. **(SR 15.09.1.2.5)**
36. After stopping at the stop indicator, Loco Pilot shall sign in the _____ book and proceed with _____ kmph.( SR 15.09.3)
37. When major work such as relaying and re girdering is in progress a speed restriction of _____ kmph shall be observed on the adjoining line of DL//MULTIPLE/ line section.( SR 15.09.6)
38. When water over tops the ballast level but is below rail level, the track should be walked over by _____one at either end of the sleepers. (SR 15.17.3.1)
39. When water over tops the rail _____ shall certify by walking over and probing that the track is safe and allow the train to go at a speed not exceeding _____ kmph.(SR 15.17.3.2)
40. Minimum number of persons required to go along with a Push Trolley/Motor Trolley are _____. (SR 15.18.2)
41. Maximum number of men to be carried on a push trolly/motor trolly shall not exceed _____on the BG. (SR 15.18.3.1.2)
42. In track circuited areas trolleys shall have _____(SR 15.24.2.1).
43. In token less section _____ is given as ATP for the movement of motor trolley (SR 15.25.7.2.1.2.)
44. On single line, Station Master, after the arrival of motor trolly inform the Station Master of the rear station supported by a _____. (SR 15.25.7.2.3.1)
45. When motor trolley is following a full length train or engine or another motor trolley, _____ authority is given as A T P (SR 15.25.7.4.3)
46. When a motor trolley is following a train, it is treated as _____ of the train which it is following. (SR 15.25.7.4.5)
47. On arrival at the station, the official in charge of the motor trolly will deliver the authority to the SM with a _____to the effect that the motor trolly has arrived. SM shall paste that authority in the _____. (SR 15.25.7.2.2)
48. On arrival of the (last) following motor trolly at the station, the official in charge will sign in the _____in token of his motor trolly having arrived intact.(SR 15.25.7.4.8)
49. Trolley/Lorry notice is given in form No. _____ by P W I.(SR 15.27.1.1)
50. When Station Masters of both ends received Trolly/Lorry Notice, they shall stop all the trains entering into the section and issue _____. (SR 15.27.2.1)

51. During night a lorry or when lorry is loaded with rails, girders or heavy material shall always be worked under the rules for working of _____. (SR 15.27.2.1/2.2/2.3)
52. _____ is a device with two or more wheels which in balanced condition can be moved manually on one rail of track and can carry one rail/sleeper in suspended condition. (SR 15.27.8)
53. Rail dollies shall not be worked on sections having gradients steeper than _____ (SR 15.27.8.3(ii)
54. Not more than ____rail dollies should be worked in a group in any one block section. (SR 15.27.8.3(iii)
55. In case, a Rail dolly is to carry rails longer than 3 rail panel , then it should work under _____.( SR 15.27.8.3.(v))
56. _____is a self propelled one which can run on railway track as well as on road. It shall be treated and signaled as a _____. (SR 15.27.9.1.1)
57. The RRV shall run under the supervision (in charge) of _____.(SR 15.27.9.2.1)
58. When RRV is to be dispatched from a station provided with track circuit/panel, such movements in the block section would be dealt only on _____.(SR 15.27.9.5.3.1)
59. On tracking and offs tracking of RRV in mid-section shall be done from a _____ (SR 15.27.9.5.4.1).
60. Neutral section lies between two consecutive _____(SR 17.02(3)).
61. “Danger Zone” means the zone lying within _____ metres radius around any live equipment. (SR 17.02.7.3, 19)
62. Engine crew of all trains shall report any defect/irregularity noticed in the OHE to _____ in electrified section. (SR 17.03.4.3.1)
63. When a train comes to a stop in an electrified section and the cause of stoppage is not immediately obvious, the LP and Guard shall immediately take action to _____. (SR 17.03.4.9.1)
64. The competency certificate issued by DEE (TRD) to SM for operating the isolators in emergency is valid for _____ years. (SR17.03.5.3.4)
65. Warning boards shall be fixed on the OHE masts in rear of neutral sections at a distance of _____and _____metres respectively. (SR 17.07.1)
66. The speed of the train while passing through Neutral section shall not be less than _____ kmph.(SR 17.07.1)
67. When the tower wagon is moved, attached to a train, it should be inside the _____.and the speed of the train should be restricted to the speed of the _____.(SR 17.08.8.3.4)
68. The maximum speed of tower car shall be _____ (SR 17.08.8.3.4).

69. When healthy section is temporarily isolated and re-energised, if no train entered faulty section, Station Master to issue caution order to the LP of the first train on healthy section to _____.(SR 17.09.16(b))

70. When healthy section is temporarily isolated and re-energised, if train entered faulty section, the speed of the first train shall be _____ kmph by day / night. (SR 17.09.16(c)

71. During power block _____ trains are only permitted to run.(SR 15.06.1.2)

72. The Guard shall not allow the train with the ODC to enter the section (electrified) until the _____is received from the authorized person. (S.R.17.08.1.5.10.2)

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## APPENDIX I & II

1. The notice stations, where divisional caution order shall be issued are specified in the _____.( Appx I (2.3(i) )

2. In the Caution order, the names of the stations concerned should be written in full _____should not be used.( Appx I ( 5.2).

3. The caution order should have all the speed restrictions in force in _____order.( Appx I (5.3)

4. The LP shall not start the train/the Guard shall not give signal to start from a notice station until they have received _____.(Appx I (6.3)

5. In case of change of train crew en route, the Loco Pilot/Guard taking over charge must take over all Caution Orders from the _____ who is being relieved. (Appx I (8)

6. In case a train is worked with an assisting engine / banking engine, the LP and ALP of such engines shall also be issued with the _____.(Appx I (9.1)

7. SM shall bring forward the caution orders in the caution order register every _____at _____hrs in geographical order.(Appx I (12.1)

8. Serial numbers shall be used for both imposition and cancellation of speed restrictions in the caution order message register throughout the year commencing from _____to_____. ( Appx I (12.3 ))

9. At notice stations instead of preserving train wise record copies, one _____ of caution order for each direction for each day be preserved.( Appx I ( 13.1))

10. Record copies of the caution orders shall be preserved for a period of _____months. ( Appx I (13.3))

11. Whenever a caution order is cancelled, SM who receives such message shall inform SMs of _____ &_____ under exchange of private numbers.(Appx I (11.2))

12. Once in every _____years, periodical census of traffic at all level crossings shall be carried out for _____days. ( Appx II (I))
13. Expand TVU _____(Appx II (I)).
14. The opening and closing timings to be recorded in the _____ register by the gateman on duty. (Appx II. Annex III para2 )
15. If lifting barriers/leaf gates get damaged or becomes out of order he shall close gate using _____arrangement is available or by use of spare chain with disc and padlocks (Item No.4 *Appendix–II (3)* (vii))
16. If the interlocking arrangement is available for sliding booms, after closing the gate with sliding booms, _____ can be taken off (Item No.4 *Appendix–II (3)* (vii))
17. Before the use of sliding booms for closing the gate, Gateman shall make an entry in the _____Register and exchange PN with station master. (Item No.4 *Appendix–II (3)* (vii))
18. After resuming working of normal booms, again entry to be made and ___ to be exchanged with SM to this effect (Item No.4 *Appendix–II (3)* (vii))
19. Interlocking is compulsory for LC gate , when TVUs are more than ____(Appx II ( II))
20. If any unmanned level crossing gets involved in more than _____ accidents in 3 years, it should be manned immediately. (Appx II (III))
21. Level crossing gates situated within outermost stop signals of a station are under the control of _____.(PWay Manual 909(1))
22. Level crossing gates situated out side the outermost stop signals of a station are under control of _____.(PWay Manual 909(2))
23. At non interlocked gates, the gateman, before opening the gate for road traffic shall fix a banner flag by day and red light by night at a location _____distance from the gate.(Appx II-IV-1.4.2 ))
24. During passage of trains, Gateman during day time will stand and hold _____in a furled condition and during night time, he shall hold _____light facing the track. (App II-IV- 1.5(2) ))
25. If a Gateman observes a train running in two or more portions, he will draw the attention of the Loco Pilot and Guard By _____and also shall show parting hand signal. (App II-IV-1.5 (4) (iv))
26. At engineering level crossing interlocked gate, if the running time is less than 10 minutes, the Station Master will advise the gateman particulars of the train after/before _____. (App II Annex ! (1 (iii)).
27. The interlocked level crossing gate should be treated as _____when the signal protecting the LC gate becomes defective. (Appx II Annex I ( 3 ))
28. At engineering/traffic level crossing non interlocked gate, normal position closed to road traffic, the Station Master will advise the gateman particulars of the train before-_____. (Appx II Annex III 2.(i))

29. If the communication with L C Gate fails, SM shall stop all trains and issue _____ (Appx II. Annex III 3 (1))

30. At engineering/traffic level crossing non interlocked gate, normal position open to road traffic , the Station Master(gate is connected to dispatching end) will advise the gateman particulars of the train before _____(Appx II Annex IV 2 (a) (ii))

31. At engineering/traffic level crossing non interlocked gate, normal position open to road traffic , the Station Master(gate is connected to receiving end) will advise the gateman particulars of the train before _____(Appx II Annex IV 2 (b) (iii))

32. Certificate of competency issued to Gateman will be valid for a period of _____(Appx II Annex VII 2)

33. After exchanging PN with gate man, if the train has not left due to change in planning, SM shall inform gate man about the cancellation of train movement supported by _____. (Appx II Annex VII . 4)

34. The instructions for working of L C gates are incorporated in the Appendix _____ of SWR (Appx XV -list of Appendices)

**APPENDIX III, IV, V, VI VII and VIII**

1. During non interlocking working, the _____line should not be used for reception of trains coming from opposite direction. ( Appx III 2.4)

2. Engineering and S&T officials shall send a circular notice to the Sr.DOM/DOM at least _____days before the work is due to commence. ( Appx III 3.)

3. The staff should also sign in _____register in token of having understood the train working instructions during NI working. (Appx III 4.1(ii)).

4. A common NI home signal without route indicator should be provided with _____ aspect for any indirect reception of trains. (Appx III 4.4)

5. _____signal shall not be disconnected throughout the NI working except at the fag end.( Appx III 4.6)

6. All trains must be brought to a _____ the FSS and then allowed to enter (taking off signals) cautiously at speed not exceeding _____kmph.(App III 5.2)

7. During non interlocking working, speed of the trains on main line shall not exceed _____kmph. (Appx III 5.2).

8. During NI working, the LP shall not pass the outermost facing points even though signals are taken off unless he also receives _____at points. ( Appx III 5.3)

9. During NI working the ASM/Guard/SWM in charge of the goomties shall be responsible for correct _____before exchanging PN to take off signals.(Appx III 5.4.3)

10. Patrolling of line means _____ of the line in addition to the daily inspection carried out by key man of the gang.(Appx IV )

11. Patrolling of railway line is done on four occasions. They are

    (a)_____ (b)_____
    (c)_____ (d)_____ (Appx IV 2)

12. Security patrolling is of three types. They are

    (a)_____
    (b)_____
    (c)_____ (Appx IV 2.6.2)

13. The line to be patrolled during the monsoon is divided into different sections called _____..( Appx IV 4)

14. Patrol man must patrol their beats according to the Patrol charts issued by the _____.( Appx IV 4.2)

15. The beat of the Patrolman shall no case exceed ____km. Under no circumstances a patrolman should be rostered to walk more than _____km.(Appx IV 4.3.2/4.3.3)

16. Patrolman, when there is no danger, stand on the right hand side of the train, whistle and exhibit _____showing the light on it. (Appx IV 7.4)

17. The name of the night patrolman with arrival and departure time shall be recorded by SM in _____ book and also in the _____and _____(Appx IV.10.2)

18. If the night patrolman does not turn up even after _____ minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to _____ kmph.(Appx IV 10.4).

19. As per the Section _____of the Railway act 1989, no Railway shall be opened for the public carriage of passengers until the Central Government has, by order, sanctioned.(Appx V 2.1)

20. The Central Government shall before giving its sanction to the opening of a Railway obtain a report from the _____.( Appx V 2.2.1)

21. Application to the CRS for sanction shall be made by the _____ through the Heads of the Departments for track, bridge and signaling and interlocking works. (Appx V 3)

22. As and when there is change of traction and reversal of engine _____test must be conducted. (Appx VI 15)

23. Fog signal men shall be selected partly from _____staff and partly from _____gang men. (Appx VII .1)

24. Fog signal men shall not show any hand signals to the LP of _____train, but on single line sections, for a train _____ fog signal men shall show proceed hand signals. ( Appx VII 6 (ii) )

25. Station Detonator Register contains _____parts.(Appx VII 9 (a) ).

26. Particulars of Fog Signalmen posted at the station from time to time shall be recorded in the Part of _____ Station Detonator Register.(Appx VII 9 (a) )

27. Particulars of receipt and stock of detonating (fog) signals at the station, to be filled in whenever detonators are used or received are to be recorded in the Part of_____ Station Detonator Register.(Appx VII 9 (a) )

28. The rules laid down in the I. R. C. A., _____ in regard to marshalling of explosives and other dangerous goods should be rigidly complied. ( App VIII )

29. Maximum number of wagons containing explosives permitted by goods trains is_____ and _____ by mixed train.(Appx VIII 1.1)

30. Minimum _____ number of wagons is to be given as support wagons from Loco when wagons containing explosives are attached by Goods Train.(Appx VIII 1.3.1)

31. Minimum _____ number of wagons is required to be given as support wagons from B V / Passenger coach / other inflammables when explosives are carried by a train.(Appx VIII 1.3.2.)

32. The liquids, the vapours of which have flash point below 23 C classified under _____Class. ( Appx VIII 2)

33. Class 'A' POL product when carried, minimum number of_____ wagons are given as support wagon from loco and _____from brake van or passenger carriage. ( Appx VIII 2.3)

34. Class 'B' POL product when carried, minimum number of_____ wagons is given as support wagon from loco and BV.( Appx VIII 2.4)

35. For the purpose of marshalling, the empty oil tanks also shall be treated _____tank wagons.( Appx VIII 2.6)

36. Tank wagons containing petroleum and other inflammable liquids and _____ oxygen/air not to be carried together.( Appx VIII 2.10)

37. A single four wheeler must not be marshaled between two _____Appx VIII 8.5.1)

38. To attach a dead engine to a train, a certificate 'fit to run' issued by Section Engineer/_____/Power controller is required.( Appx VIII 9.5.1 (i) )

39. Escorting by competent railway servant not lower than_____is compulsory when dead engine is attached next to train engine with _____ defect or when attached as _____vehicle( Appx VIII 9.5.1 (i) ).

40. _____number of dead engines is/are permitted to attach to passenger carrying train.(Appx VIII 9.5.2 (I) )

41. No dead engine should be attached to any _____, _____, _____trains under any circumstances.(Appx VIII 9.5.2)

42. Officers inspection carriages are not to be permitted by (a) _____(b)_____(c)_____(d) _____trains.( Appx VIII 10.1 and rake link)

43. More than one Inspection Carriage is not permitted by _____ trains.(Appx VIII 10.2 )

44. _____can be attached in excess of the permitted load.( Appx VIII 10.6)

45. A mail/express train shall have at least one _____ after loco and as rearmost vehicle. ( Appx VIII 11.1.1)

46. In rear of rear S L R _____ coaches can be attached excluding one Inspection carriage for express trains.(SR. 4.24.1)

47. In case of short trains running with single SLR, the SLR, should be marshaled in the _____ of the formation. .(Appx-VIII11.2)

48. When center S L R is provided in short trains, a maximum of _____ coaches are permitted on either side of S L R. (SR. 4.24.1

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## APPENDIX X and XI

1. Caution board before automatic danger level indicator shall be provided at _____ (Appx X 3).

2. When automatic danger level indicator is flashing red light the Loco Pilot shall stop the train _____metres before the indicator.( Appx X 6)

3. When Loco Pilot stopped the train before flashing red light of Automatic Danger Level Indicator, train shall be piloted by _____ (Appx X 6).

4. At standard – I R interlocked station the maximum speed permitted for the train over main line points is _____ kmph.( Appx XI 1.3 )

5. At standard – II R interlocked station the maximum speed permitted for the train over main line points is _____ kmph. Appx XI 1.3 )

6. At standard – III R interlocked station the maximum speed permitted for the train over M L points is _____ kmph.( Appx XI 1.3 )

7. At standard – IV R interlocked station the maximum speed permitted for the train over main line points is _____ kmph.( Appx XI 1.3 )

8. **At standard – III interlocked station the maximum speed permitted for the train over M L points is _____ kmph**.( Appx XI 1.3 )

9. Double Distant signal is compulsory in the Standard _____and _____ interlocking.( Appx XI 1.3 )

10. Double distant is required on sections where goods trains have a braking distance of more than _____ KM.(Appx XI 1.4.2)

11. In Siemen's panel to take "OFF' signal _____ and _____ buttons are to be pressed.(Appx XI II 4 iii (b3)

12. In Siemen's panel route button colour is _____. ( Appx XI II . 4(b))

13. In Siemen's Panel colour of the point button is _____. ( Appx XI II . 4(b))

14. In siemen's/Podanur Panel colour of the signal button/knob is _____. ( Appx XI II.4(b))

15. EGGN button is for _____.( Appx XI II . 4(b))
16. EUUYN button is for _____.( Appx XI II . 4(b))
17. EUYN button is for _____.( Appx XI II . 4(b))
18. WN button is for _____.( Appx XI II . 4(b))
19. GN button is for _____ ( Appx XI II . 4(b))
20. WWN button is for _____ ( Appx XI II . 4(b))
21. In the Siemen's panel 'NCR' indication along with audible warning appears after a button is kept pressed for a prolonged period of _____ seconds or more.( Appx XI II 4. c (i))
22. In the Siemen's panel _____related buttons have to be pressed and released simultaneously to operate a given function. .( Appx XI II 4. c (ii)(a))
23. Emergency point button code is _____( Appx XI II 4(b) ).
24. Points can be altered only when _____indication is available.(Appx XI II 4.(ii)(b)
25. To put back the signal to "ON" position in Siemens's panel _____ and _____ buttons are to be pressed.(Appx XI II 4 V 2)
26. In Podanur Panel Point button has _____ positions and _____indications.(Appx XI II 5 b(2) )
27. Point switch in Podanur panel is _____ colour, where as point button in Siemen's panel is _____ colour.(Appx XI . II 5 b .2)
28. Route cancellation takes _____ seconds after initiation ( Appx XI II 5 (v))
29. After the arrival of the train on calling "ON" in Podanur panel the time taken to cancel calling "ON" is _____ seconds.( Appx XI II 5 (v) )
30. Whenever panel is not in use, it should be _____ (Appx XI II 6 (1)).
31. When power supply fails in Non-electrified area, one generator can be used for a maximum of _____ hours at a time.( Appx XI II 6 ii (f 4)
32. Even though route is locked, Gate can be opened by using _____which takes _____seconds to release Gate key.(Appx XI II 6.e (c) )
33. Frequent power failures are to be reported to _____( Appx XI II 6 ii (i )
34. "Rusty" rail caps are to be placed when any line is not used for more than _____ hrs.(Appx XI II 6 Dos for SMs)
35. At the Panel interlocked station, the Station Master shall test emergency cross over _____to ensure its proper functioning.(Appx XI II 6 Dos for SMs)
36. When points are flashing the SM shall ensure that there is no _____ between stock rail and switch rail.(Appx XI II 6 Dos for SMs).
37. OYN knob is for _____( Ref S W R )

38. For resetting the loop line axle counter, the SM shall take the co-operation of _____ (S.R.3.69.5.3)

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## APPENDIX XII, XIII, XIV and XV

1. In case of shunting, written instructions will be given in form No._____(Appx XII ).
2. On double line section, shunting within the station section can be_____ when line clear is granted for a train.(App XII 7.1)
3. On Double line, to perform shunting beyond LSS, SM shall do _____and give _____written authority.(Appx XII 8)
4. On double line, when shunting is permitted beyond LSS in SWR in rear of a travelling away train, the authority is _____.(Appx XII 8)
5. On single line tokenless sections, to perform shunting beyond LSS and up to FSS, the authority is _____.(Appx XII 9.2)
6. On double line, to perform shunting beyond Outer most facing points/BSLB, the authority is _____.(Appx XII 10)
7. To shunt beyond the FSS on single line sections, the movement should be treated like a _____movement and LP shall be given _____+ a memo to push back.(Appx XII 11).
8. S & T works which don't require the permission of SM for maintenance are grouped as _____ (Appx XIII-4).
9. S & T works for maintenance which require the permission in writing by SM are grouped as _____ (Appx XIII-4 ).
10. S & T works for maintenance which definitely require Disconnection/Reconnection are grouped as _____(Appx XIII-4 )
11. Disconnection for duration upto _____ hour should normally be allowed by the SM depending upon trains in the section (Appx XIII-5 )
12. If Disconnection is not allowed by SM, it should be requisitioned again by the S&T Official and allowed by _____ depending upon the flow of trains. Otherwise, the available slot may be indicated by the Control to the S&T staff. (Appx XIII-5 )
13. If the maintenance / repair of S&T gear is urgently needed to avoid an accident, the same may be suspended with the approval of _____.(Appx XIII-5 )
14. For works involving disconnection for more than one hour, a Disconnection schedule jointly signed by _____, _____,_____ & Sr.DEE/TRD and the progress of the joint schedule should be reviewed by the DRMs periodically. (Appx XIII-5 )
15. For Disconnections / maintenance likely to last for more than a day _____ must be issued (Appx XIII-5 )
16. _____ message from the Station Master is only the intimation for the S&T maintenance staff to attend the defect/failure.(Appx XIII 7)

17. The Relay room shall be kept locked with two independent locks or single lock with double key, one key of the lock shall be kept with _____ and other key with _____.(Appx XIII-4)
18. The Station Master shall hand over the Relay room key to the S&T staff after obtaining the signature in the _____register.(Appx XIII-6)
19. SWR consists of _____paras and _____appendices.(Appx XIV )
20. Para 8 of SWR deals with the topic _____(Appx XIV 8).
21. Information regarding System and means of working is available in the _____of SWR.(Appx XIV .3)
22. Working of L.C. Gates are given in Appendix _____of SWR. (Appx XIV )
23. Duties of Train passing staff and Staff in each shift are given in the Appendix _____of SWR.(Appx XIV)
24. Appendix 'E' of SWR deals with _____ (Appx XIV).
25. The general precautions to be observed by station staff at O H E worked station is depicted in Appendix _____ of S W R.(Appx XIV)

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## APPENDIX XVI and XVII

1. In the EMU/MEMU Bell code 000 pause 000 indicates _____. (Appx XVI 1.1)
2. Only _____persons other than the Loco Pilot/Motorman or Guard are authorized to travel in the Cab of EMU/MEMU with special permits.(Appx XVI 2)
3. _____test should be conducted before taking out MEMU/EMU on the 1st daily service run from MEMU/EMU shed, stabling siding and platform line. (Appx XVI 5)
4. When the power go off the line, while the EMU/MEMU is standing on a grade, the Loco Pilot/Motorman must immediately apply the _____ in both cabs to the full extent and apply the wedges towards the _____.(Appx XVI 7)
5. If the detention exceeds or it is likely to exceed _____ minutes, the EMU/MEMU shall be protected as per Rule 6.03/9.10 (Appx XVI 8)
6. In the event of fire on any part of the electrical equipment, the affected part is first to be completely _____ from the distribution system.(Appx XVI 9.1)
7. In the event of fire on EMU/MEMU, the Loco Pilot/Motorman shall immediately _____ and lowers the pantograph.(Appx XVI 9.2)
8. In cases where the leading cab of an EMU/MEMU has become defective, the maximum speed shall be _____ Kmph.(Appx XVI 10)

9. In cases where the leading cab of an EMU/MEMU has become defective, brake equipment in the leading cab is inoperative; the maximum speed shall be _____ Kmph.(Appx XVI 10)

10. According to the density of traffic to the sidings, the rakes will be moved as per (A) One Pilot Only System or (B) _____System.(Appx XVII )

11. _____is authorized to prescribe either one pilot only system or multiple pilot system of working on the basis of traffic to be dealt.(Appx XVII)

12. At serving station where sidings are take off, the Station master must maintain _____register to record the detail of all pilot movements.(Appx XVII )

13. _____of the train or in his absence any _____staff deputed by Station Master is in charge of the Pilot.(Appx XVII )

14. _____of the Pilot is responsible for the safe working of the Pilot and for the correct setting and securing of points.(Appx XVII )

15. In the _____system, before leaving station, LP will be given authority to proceed to the siding and return to the station.(Appx XVII )

16. On complete arrival of the Pilot train inside the fouling mark, the _____shall make an endorsement in the Pilot Movement Register. (Appx XVII )

17. In the _____system, LP will be given separate authorities from station to siding and siding to station.(Appx XVII )

18. Reception of pilot train into station can be done by taking off _____or _____.(Appx XVII)

19. In the Multiple Pilot system, in the event of failure of means of communication with siding, SM has to adopt _____system till restoration of any one of the communication.(Appx XVII ).

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## BLOCK WORKING MANUAL

1. In the Daido handle type block instrument, to cancel the Line clear, when train has not left the station _____switch is to be operated. (BWM-B-1.2(j))

2. In the Podanur push button block instrument _____indicator is an aid to the SM to verify if all relevant controls, levers/knobs, signals etc., are normal. (BWM-B-1.3(o))

3. When Home signal is defective on D/L, its lever/knob should be kept in _____position to prevent_____.(BWM-C-1.5 note)

4. Five beats are given for cancelling last signal and_____. (BWM-A-B-C-2.3.5)

5. Bell code to be given SM in advance when unsafe condition on a run through train is observed is _____.(BWM-A-B-C-2.3.6(b))

6. The number of bell beats that are to be given when the block instrument is tested by SI is_____.(BWM-A-2.3.7, B-2.3.7,C-2.3.7)
7. When acknowledgement cannot be obtained for 'Call attention' bell beat, after _____ seconds, again Call attention shall be given by SM. (BWM-A-2.5(d), B-2.4(d),C-2.4(d))
8. The Station Master taking over charge shall test the block instrument and make a record of the result then and there in the _____.(BWM-A-2.6 (e)note,B.2.6 (e)(i),C-2.7(e) note)
9. The Station Master who ask/grants line clear shall remain on duty till the _____signal is received /acknowledged. (BWM-A-2.9 (a) ,B.2.7 (a), C-2.8(a))
10. The TSR shall be retained at station for _____in which it is completed. (BWM-A-2.8, B.2.9, C-2.10)
11. SM shall test the Podanur push button block instrument /SGE block instrument by attempting to take off_____ without obtaining line clear..(BWM-B-2.6 (e)(iii),C-2.7 note (e) iii)
12. The time of relief and handing over the block instruments shall be recorded by the outgoing SM in the _____ along with the last number registered in the counters. (BWM-A-2.6 (e), B.2.6 (e),C-2.7(e))
13. On double line block instrument will be operated for obtaining line clear, by _____ and for closing block section by _____.(BWM-C-3.2(A) i 9)
14. In push button token less block instrument, _____button is to be operated for cancellation of line clear along with BCB. (BWM-B-3.3(B)4)
15. In podanur push button block instruments, when cancellation button is operated, _____ indication appears after lapse of _____seconds. (BWM-B-3.3(B) 5)
16. Slip/Catch siding key cannot be removed when Block instrument is in_____ position. (BWM-B-3.6)
17. In Single line Electrified sections _____type of block instruments are only provided.(No.74/W3/SGF/6 dated 18.05.1982)
18. In push button token less block instrument when shunt key cannot be extracted for shunting purposes, the SM shall advise the SM at the other end to extract shunt key and keep it in his personal custody and LP shall be given _____for performing shunting.(BWM-B-3.7.7)
19. For all Goods trains at originating station "is line clear" should be asked_____.(BWM-A-3.10,C-3.5(c))
20. At train starting station 'is line clear' shall be asked _____minutes before the booked departure of the passenger carrying traina. (BWM-A-3.10,C-3.5(c))

21. At intermediate stations, for all stopping trains with a halt of less than five minutes‘ is line clear’ shall be asked when _____.(BWM –A-3.10,C-3.5(c))

22. in the case of train is booked to run through a station, is line clear shall be asked _____minutes before the train is due to pass. (BWM-A-3.10, C-3.5(c))

23. For run through trains whose running time is less than seven minutes, Line clear is to be obtained immediately after the _____signal is received.(BWM-A-3.10, C-3.5(c))

24. _____Private Number sheets shall be supplied to each Station Master. Only _____sheet shall be in use at a time. (BWM-A-3.22 (e), B-3.18 (e),C-3.13(e))

25. To prevent Line clear from being taken by the SM of station in advance through Push button token less block instrument, the SM shall_____.(BWM-B-5.1 Note}

26. When SM does not want to grant line clear, he shall give _____bell code signal. (BWM-A-B-C-5.1(a))

27. On double line sections when a train is pushed back after entering the block section on normal ATP, the next train shall be dispatched on_____(BWM-C-5.5 note)

28. When Block forward or Block back is done on double line sections, the block instrument shall be kept in _____position directly. (BWM-C-5.3.1,5.4.1)

29. The Guards/Loco Pilots of all trains who are provided with VHF sets and Portable Field telephone, when delayed in the block section for over _____for passenger carrying/goods trains shall inform the Station Master/controller. (BWM-A-5.5 (b), B.5.6 (b),C-5.7(e))

30. A relief engine should be sent, if the engine or vehicles running away have not arrived even after a lapse of _____minutes more than the running time of the slowest speed goods train. (BWM-A-5.9 (a), B.5.10 (a),C-5.11(b),5.12(b))

31. After the testing signals are exchanged, entries in red ink shall be made in the _____ and signed by both SI/ESM and the Station Master. (BWM-A-7.4 (f), B-7.4 (d),C-7.3(d))

32. Message for token balancing shall be given when the token balance falls to_____.(BWM-A-7.7(c))

33. While balancing of tokens is done, the block instrument shall be in _____position.(BWM-A-7.7(e))

34. When ‘ Train on line’ buzzer fails, the block instrument shall be _____.(BWM-A-8.1(a)vii)

35. “Lost Token” notice shall remain pasted at the both stations for a period of_____.(BWM-A-8.2(e))

36. Block instrument failure either at station ‘X’ or station ‘Y’ shall be recorded by both Station masters of ‘X’ and ‘Y’ in their _____register. (BWM-A-8.3, B-8.3,C-8.3II)

37. In the event of failure or suspension of block instrument, before signaling a train through any alternative means of communication both SMs shall _____ and record in the TSR in red ink. (BWM-A-8.5(d), B-8.5(d),C-8.6(d))

38. Before despatchig a train using the Block telephone, Both SMs shall cross check _____for the last three preceding trains and record these particulars in the TSR. (BWM-A-8.7(b), B-8.7(b),C-8.7(b))

39. Before despatchig a train using the Control telephone, Both SMs shall cross check _____for the last three preceding trains and record these particulars in the TSR. (BWM-A-8.8(c), B-8.8(c),C-8.8(c))

40. VHF sets as a means of communication for prolonged duration of _____hours or more should be permitted only in the presence of supervisory staff. (BWM-A,B,C-8.9 Note(i))

41. When BPAC fails, it goes to _____mode after resetting the instrument with cooperation with SM/advance.(S.R.14.3.2.3)

42. When there is no response for call attention bell, efforts shall be made to attract attention of SM/advance on other means after a lapse of _____minutes. (BWM-A-B-8.5(a),C-8.6(a))

43. Authorised means of communications in the order of priority are [i]block instrument, ---------or track circuits. (BWM-A-B-8.5(b),C-8.6(b))

44. When block telephone fails next means of communications for obtaining line clear is_____ where provided. (BWM-A-B-8.5(a),C-8.6(a))

45. To obtain/grant line clear through VHF set SM shall switch over from common frequency/channel to freezed channel/frequency No._____ (BWM-A-B-C-8.9 a/l)

46. Freezed channel/frequency are channel _____for 1st adjoining section, channel _____for 2nd adjoining section and channel _____for 3rd adjoining section(BWM-A-B-C-8.9 (l))

47. _____ trains are not allowed when VHF set is used as sole means of communication. (BWM-A-B-C-8.9 note ii)

48. VHF set shall not be used as means of communication where _____ are provided. (BWM-A-B-C-8.9 note iii)

49. In Automatic block system, alternate means of communications are (i) _____ wherever available (ii) Fixed telephone such as Railway auto-phone and _____(iii)_____ and (iv)VHF set.(S.R.9.12.3.5.1)

50. Even if tail lamp/tail board is not found closing block section need not be held up where_____are provided.(S.R.4.17.2 Note)
51. During PLCT working entries shall be made at receiving end in _____ in addition to TSR.(BWM-Annex-1.1(b))
52. While issuing PLCT, loco pilot's signature is to be obtained in _____.(BWM-Annex-1.5(a))
53. All block instruments are proving _____position of First stop and Last stop signal(S.R.3.24/No: 93/SIG/M/11 dated 16.02.1996)
54. On single line the axle proven block panel available are _____&_____. (BWMS TL)
55. _____ yellow indication is available on axle proven block panel to confirm that all concerned signals at the other end block station. (BWMS TL 1.4)
56. _____ appears along with section buzzer when train/vehicles enter block section. (BWMS TL 3.7.6.5)
57. When line clear is cancelled _____ buttons are to be operated at despatching end and _____ buttons are to be operated at receiving end. (BWMS TL)

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## ACCIDENT MANUAL

1. In an accident if the damage to Railway property ,the value of which exceeding Rs.2 crores, such accident shall be treated as a _____ accident (AM 103 .c )
2. 2.Accidents are classified under following heads 1 ] _____2)_____3)_____
   a. 4)_____5)_____. (AM 105)
3. .An example of consequential train accident is_____.( AM 105.2 )
4. An example of indicative accident is_____(AM 105.9)
5. If, outside the station limits, the distance between the two trains is _____or more, such occurrence may not be treated as averted collision. (AM 105.10)
6. Train entering a block section without ATP or without a proper ATP is an example of----------(AM 202. 2.G)
7. Train passing signal at Danger is classified under _____ accidents. (AM 105.12)
8. The threshold value in terms of loss of Railway property is fixed at Rs _____in an accident. (AM 108)
9. For statistical purpose , accidents have been classified under categories `A' to `R', excluding ___ and ___. (AM chap – II ).
10. As per classifications, Collisions come under class _____. (AM 201.1)
11. As per classifications, Fire in Trains come under class _____. (AM 201.2)
12. An example of breach of block rules is_____.( AM 202.G)
13. If gate telephone fails for more than _____ minutes, it shall be treated as equipment failure. (AM 203.4.M.7)
14. In case of suspected sabotage, SM has to lodge FIR at _____ in addition to all concerned message. (303.9.d).

15. Reportable Train accidents means all accidents falling under the purview of section _____ of the Railway Act 1989.( AM 401)
16. Whenever accident takes place, SM and GLP has to prepare report in the format given in form _____and _____respectively. ((AM 411.1).
17. Whenever accident takes place, blood samples are to be collected from _____ in addition to GLP of the ill fated train.(AM 501.2 .iii ).
18. After accident the unaffected portion of the train may be moved for restricted use, after the certification by _____/ _____/_____in the order of priority. (502.2.b).
19. Accident siren three long indicates_____.( AM 602 .S.no.2 )
20. Accident siren when accident takes place at out station, main line obstructed and MRT required is _____.( AM 602 .S.no 5 )
21. The target time for turning out ART is _____by day and _____by night. (603.2.d)
22. The target time for turning out MRT is_____ for direct/indirect dispatch. (605.4)
23. ARME scale –I comprises of_____ and _____.(AM604.1.v)
24. Scale II ARME is stored in boxes in a separate room adjacent to the _____.(AM604.2.i)
25. DMO should inspect the Medical Van scale I equipment once in _____and scale II equipment once in _____. (AM.605.6)
26. Trail run of MRV on passenger train shall be done once in a _____.(AM 605.7)
27. Mock drills for ART shall be conducted once in_____. (AM 618)
28. In case of death in Train accident/manned LC gate accident Rs _____ /_____is paid as ex-gratia. (AM 801)
29. In case of serious injury in a train accident Rs. _____ is paid as ex-gratia (AM 801)
30. The amount of compensation to be paid in case of death in railway accident is Rs_____.(AM 801)
31. The claim for compensation shall be made within _____from the date of accident through_____.(AM 803.3).
32. Target time to submit the inquiry report by the committee to DRM / GM is _____. ( AM 907.4 )
33. When SM receives message about unsafe condition of tanks, rivers and bunds, he shall stop the train and issue caution order to observe_____ and reduce speed as necessary .(AM 1101)
34. When persons are knocked down or run over and dead, no responsible person is available, body shall be handed over to nearest _____or next _____in the direction of movement.. (AM 1102 .iii )
35. When murder took place in a second class or sleeper class compartment , the carriage will be detached at the station where the crime was _____.(AM 1107)
36. If the crime took place in an AC coupe / cabin / coach, the coupe / cabin / cubical shall be emptied of passengers and the carriage is allowed to proceed to the nearest station, where it can be _____.(AM 1107.c )
37. Rainfall above _____ cm in 24 hours is considered as dangerous for running trains. (App. IV-1)
38. Heavy wind above _____ kmph is considered dangerous for running trains. (App. IV-1)
39. South Central Railway is divided into _____zones for the purpose of Weather Warning.( App. IV-1.2.a)

40. On receipt of weather warning message, the Station Master should immediately arrange to hand over to the parties concerned and obtain _____.( App. IV-1.3.c).

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## VARIOUS SPEED RESTRICTIONS

| S.No | DESCRIPTION [AT STATION] | SPEED[kmph] | RULE REF. |
|---|---|---|---|
| 1. | Failure of LSS in Automatic block –D/L | 10 up to next signal | SR.3.12.3 |
| 2. | **Goods trains** –entering terminal yards | 15 | SR.3.36.4 |
| 3. | While testing detonators | 8--11 | SR 3.64.5.6 |
| 4. | On non-interlocked points | 15 | GR. 4.10 |
| 5. | **1 in 8½ turnout**—a]goods<br>b] Passenger carrying trains<br>c] with curved switches, PSC sleepers and52/60 kg rails---- both passenger and goods<br>d) symmetrical split with thick web switch with 52/60 kg rails on PSC sleepers | 15<br>10<br>15<br>30 | SR.4.10 |
| 6. | TTM speed over points and crossings | 10 | SR 4.65.1.1 |
| 7. | Trolly over points and crossings | 15 | SR.15.25.10.2 |
| 8. | STD.I (R) Interlocked M/L facing points | Up to 50 | Appendix XI 1.3 |
| 9. | STD.II (R) Interlocked M/L facing points | Up to 110 | Appendix XI 1.3 |
| 10. | STD.III (R) Interlocked M/L facing points | Up to 140 | Appendix XI 1.3 |
| 11. | STD.IV (R) Interlocked M/L facing points | Up to 160 | Appendix XI 1.3 |
| 12. | STD III interlocked M/L facing points | MPS | SEM Part I |
| | **[ IN BLOCK SECTION**] | | |
| 13. | **IBS** at ‘ ON’-----phone defective | 15/8 | SR.3.75.4 |

| | | | |
|---|---|---|---|
| | | | |
| 14. | During dense fog—in section | a) Absolute-60<br>b) Automatic-<br>Green- 60<br>Double Yellow- 30<br>Single yellow – restricted speed to be able to stop at next signal | SR.4.08.2 |
| 15. | **While pushing the train**—<br>a) Guard in the leading vehicle<br>b)Guard is not in the leading vehicle<br>c) without brake van | <br>25<br>8<br>Walking speed | SR.4.12.2.3 |
| 16. | Patrol or Search light special with one or more vehicles in front | 40 | GR 4.12.1 |
| 17. | Failure of Headlight | 40 or severest SR | SR.4.14 |
| 18. | **Shunting**<br>Generally<br>Explosives<br>Non-roller bearing—Hand shunting | <br>15<br>08<br>05 | <br>SR 5.13<br><br>SR 5.20.5.3 |
| 19. | Rail breakage---up to 30mm<br>I train<br>II and subsequent trains | <br>10<br>15 | SR.6.01.2.3.3 |
| 20. | When train/engine is sent into occupied block section on T/A602 | 15/10 | SR 6.02.6.1 |
| 21. | Light engine proceeding on T/B602 to open communication | 15/10 | SR 6.02.4.6.1 |
| 22. | During TIC on D/L Train proceeding on T/C602 | 25/10 | SR 6.02.3.3.2 |

| | | | |
|---|---|---|---|
| 23. | When Block Tkt [T/J 602] is issued | 15/8 | SR 6.02.5 |
| 24. | First train during TSL. Working | 25 | SR 6.02.1.11 |
| 25. | During TIC on S/L When line clear is obtained for more than one train---- speed of second and subsequent trains | 25/10 | SR.6.02.4.18 |
| 26. | On seeing flasher light | 20/10 | SR 6.03.7 |
| 27. | When 'lurch' is reported and subsequently a train is sent with engineering official, caution order | Stop dead short of expected portion of the track. | SR.6.07.1(d) |
| 28. | When 'lurch' is reported and subsequently a train is sent without engineering official, caution order | Stop dead before the affected KM and proceed with 10km after satisfying condition of the track | SR.6.07.1(e) |
| 29. | Light engine returning on T/609 to clear left over portion | 25 | SR 6.09.7 |
| 30. | When LOCO PILOT passes Automatic signal at ON | 10 | SR.9.02.3 |
| 31. | Failure of LSS in Automatic block S/L--I Train | 25 | SR.9.06.5 |
| 32. | First train is proceeding on T/D912 | 25 | SR.9.12.1.6.2 |
| 33. | When train is proceeding on T/B912 | 25/10 | SR.9.122.4.3 |
| 34. | During TSL Working in automatic block First train on wrong line | 25 | SR.9.12.3.10 |
| 35. | Speed of the relief engine on T/C 912 | 15/10 | SR 9.12.6.1.3 |
| 36. | Speed of the following tower wagon/TTM (day/night) | 25/10 | SR 15.06.4.3 |
| 37. | Speed of the Material train/tower wagon/TTM during integrated/shadow block (day/night) | 15/8 | SR 15.06.4.4.1 |
| 38. | After stopping at Stop Indicator | 8 | SR15.09.3 |

| | | | |
|---|---|---|---|
| 39. | When major work is in progress—speed of trains on adjacent line | 50 | SR 15.09.6 |
| 40. | When water rises over ballast level but below rail level | Stop and proceed 8 ( 2 gang men should walk abreast on sleepers) | SR.15.17.3 |
| 41. | When water overtops the rail | Stop and proceed 8 after certification by PWI | SR.15.17.3 |
| 42. | Motor trolly during night | 30 | SR.15.25.10 |
| 43. | Passing neutral section —minimum | 30 | SR.17.07.1 |
| 44. | In cases of emergency Asst.Loco Pilot drives the train up to next point where he can be relieved | 40 | SR.17.09.5.7 |
| 45. | **Electric loco leading driving compartment is defective---**<br>a)Loco Pilot remains in leading driving comp. Train is driven by Asst.Loco Pilot from rear driving compartment<br>B) Loco Pilot drives from rear driving compartment. Asst. remains in the leading compartment | 40<br>15 | SR.17.09.12.2<br>SR.17.09.12.3 |
| 46. | First train to enter healthy section which is temporarily isolated and re-energized | 60/30 | SR.17.09.16 |
| 47. | When patrolman has not turned up after 15 mts beyond schedule arrival | 40 | App. (10).4.3 |
| 48. | When a four wheeler vehicle is attached to passenger carrying train. | BG—75<br>MG—50 | App.VIII.8.5.3 |
| 49. | Unsafe condition of bunds of Tanks or Rivers | Special caution | Accident Manual 1101 |
| 50. | **When ODC is by train**<br>Class A<br>Class B | BG MG<br>75 25<br>40 25 | WTT |

| | | | |
|---|---|---|---|
| | Class C | 25 15 | |

**AUTHORITIES**

1. Normal authority to proceed on Single Line token section is _____**TOKEN**
2. Normal authority to proceed on Single Line token less section and on Double line section is _____**OFF POSITION OF L.S.S.**
3. When a Loco Pilot has been advised of a defective reception stop signal of a station in advance through the S.M. of station in rear, the authority to pass such signal is_____**T/369(1) +PHS AT THE FOOT OF THE SIGNAL**
4. Authority to pass defective OUTER/HOME/STARTER signal is ___**T/369(3b)+PHS**
5. Authority to pass defective Shunt signal / Shunting permitted indicator is ___**T/369(3b)+PHS**
6. When train has passed starter signal partly when the signal is at ON and stops, it shall be started on_**T/369(3b)+MEMO(COUNTER SIGNED BY GUARD)+PHS+ATP**
7. When LSS becomes defective on Double Line in Automatic block system _____ **(T.369(3b)+CO (10/8kmph up to next signal.)**
8. Caution order ( Divisional/Sectional)_____**T/409**
9. Caution order (Nil)_____**T/A 409**
10. Authority for the material, after completion of work coming back to the same station **–T.462**
11. Authority for the material after completion of work going to the next station **----T/A.462**
12. Authority for the TTM, after completion of work coming back to the same station **–T.465**
13. Authority for the TTM, after completion of work going to the next station **–T/A.465**
14. Authority when more than one TTM is permitted in the same section and returning back to the same station for the First TTM is—T.465 and subsequent TTM's**-----CO**

15. Authority when more than one TTM is permitted in the same section and going to the station in advance first TTM is given---CO and last TTM is given**---T.A 465**
16. Authority to receive a train on to an obstructed line/ non-signaled line____**T/509**
17. To start a train from a line not provided with Starter Signal and ATP is not tangible__**ATP+T/511**
18. To start a train from a line provided with a common starting signal for a group of lines_____**ATP+T/512 +common starter taken 'off'**
19. To send a relief engine/train or train into occupied block section_____**T/A.602**
20. Engine going for opening up communication during total interruption of communication on Single Line_____**T/B602**
21. To dispatch a train during total interruption of communication on Double Line sections_____**T/C602**
22. For working trains during T S L working on double line_____**T/D602**
23. For engine going for opening up communication during total interruption of communication on Single Line when Line Clear is required for more than one train_____**T/B602+T/E602**
24. In case of even flow of traffic during TIC on S/L, after opening up of communication, Line clear enquiry can be made for subsequent trains through___**T/E602**
25. Conditional line clear reply message_____**T/F602**
26. Conditional Line Clear Ticket for UP/DOWN trains____**UP-T/G602. DOWN-T/H602**
27. Form that has to be used for exchanging messages after any one of the means of communication is restored_____**T/I602**
28. Block Ticket is prepared in Form No._____**T/J602**
29. Written permission given by Guard to Loco Pilot during divided train working __**T/609**
30. When a train without guard is divided in the section, after dropping the first portion, authority for light engine returning to pickup second portion _____**T/A 602**
31. Shunting order (Shunting instruction form) _____**T/806**
32. Authority to go up to opposite FSS for shunting purpose in Token area____**T/806**
33. Authority to go up to opposite FSS for shunting purpose in Token less area__**T/806+SHUNT KEY OR T/806+PN**
34. Authority to go beyond opposite FSS for shunting purpose on Single line____**ATP+WRITTEN MEMO TO PUSH BACK+TAKING OFF SIGNALS**
35. Authority to enter block section in rear on Double line section for shunting purpose_____**T/806(WITH PN)**

36. Authority to enter block section in advance on Double line section for shunting purpose_____ **TAKING OFF SHUNT SIGNAL BELOW LSS/LSS LEVER KEY/T-806(WITH PN)**
37. Authority to enter block section in advance on Double Line section for shunting purpose behind the travelling away train _____ **taking off shunt signal below LSS or LSS laver key or T/806 without PN**
38. When LSS becomes defective on Single line Automatic block system____**(T/A912+PLCT**)
39. During prolonged failure of all signals and communication on Double Line Automatic block system_____**T/B912**
40. For relief engine/train to enter occupied block section in Automatic block system___**T/C912**
41. During prolonged failure of all signals and communication is available on Double Line Automatic block system_____**T/D912**
42. Authority to despatch the trains during temporary single line working on Automatic block system (first train on right line and all trains on wrong line**) – T/D 602 + T/A 912**
43. Authority to open communication on single line automatic block system is – **T/B 602 + T/A 912**
44. Before issuing PLCT –Line Clear Enquiry _____**T/A1425**
45. Before issuing PLCT –Line Clear Reply_____ **T/B1425**
46. PLCT-UP ____**T/C1425**
47. PLCT-DOWN__ **T/D1425**
48. To pass Home Signal of class C station on Double line section ____**PLCT**
49. In IBS area, before a train leaves the station if it is known that the IBS/LSS/AXLE COUNTER/TRACK CIRCUIT is failed_____**PLCT+T/369(3B)**
50. When Loco Pilot enters block section without an ATP and report is sent to station in rear, the SM gives _____**PLCT**
51. Trolley/Lorry/Ladder Trolley Notice_____**T/1518**
52. Motor trolley permit in token less single line and double line sections on Absolute Block system__**T/A1525**
53. Motor trolley permit in single line and double line sections on Automatic Block system__**T/A1525**
54. Motor trolley permit to follow a train/engine/another motor trolley_____ **T/1525**
55. Authority for Tower Wagon, after completion of work coming back to the same station- **T.1708**
56. Authority for Tower Wagon, after completion of work going to the station in advance – **T/A.1708**

57. Authority when more than one Tower wagon is permitted in the same section and returning back to the same station for the First Tower car is—T.1708 and subsequent Tower cars-----**-CO**

58. Authority when more than one Tower wagon is permitted in the same section and going to the station in advance first Tower wagon is given---CO and last tower wagon is given---**T/A 1708**

59. S&T Disconnection and Reconnection Notice_____**S&T(T/351)**

60. Train Examination Advise_____**T/431**

61. Combined Train Report_____**T/720.**

**MULTIPLE CHOICE QUESTIONS ON G & SR FOR SCOR.**

1. साधारण नियम ------द्वारा बनाए जाते है.

[A] भारत सरकार [B] प्राधिकृत अधिकारी
[C] महाप्रबंधक [D] प्रमुख मुख्य परिचालन प्रबंधक

**1.** General Rules are framed by
[A] Government of India [B] Authorised Officer
[C] General Manager [D] PCOM

2. अनुमोदित विशेष अनुदेश----------द्वारा जारी या अनुमोदित किया जाता है.
[A] प्रमुख मुख्य परिचालन प्रबंधक [B]प्राधिकृतअधिकारी
[C]सी आर एस [D] रेलवे बोर्ड

**2.** Approved special instructions are issued or approved by
[A] PCOM [B] Authorised Officer [C] CRS [D] Railway Board

3. दक्षिण मध्य रेलवे का प्राधिकृत अधिकारी ----------है.
[A] प्रमुख मुख्य परिचालन प्रबंधक [B]महाप्रबंधक
[C] मुख्य यातायात प्रबंधक [D] मुख्य संरक्षा अधिकारी

**3.** The authorized officer of South Central railway is
[A]PCOM [B] GM [C] CTM [D] CSO

4. विशेष अनुदेश----------द्वारा जारी किया जाता है.
[A] मुख्य यातायात प्रबंधक [B] मुख्य संरक्षा अधिकारी
[C] प्राधिकृत अधिकारी [D] रेलवे बोर्ड

**4.** Special instructions are issued by
[A] CTM [B] CSO [C] Authorised Officer [D] Railway Board

5. डबल लाइन पर बहुसंकेती सिगनल व्यवस्था से युक्त क्लास 'बी' स्टेशन पर, स्टेशन सेक्शन --------के बीच होता है.

[A]सबसे बाहरी सम्मुख पाइंट से एलएसएस तक [B] बीएसएलबी से एलएसएस तक

[C] A या B [D] उपर्युक्त में से कोई नहीं

**5.** On Double line class 'B' station Multiple Aspect Signalling, station section lies between
(A) Outermost facing points to LSS (B) BSLB to LSS
(C) Either A & B (D) none of above

6. सिंगल लाइन पर बहुसंकेती सिगनल व्यवस्था से युक्त क्लास 'बी' स्टेशन पर स्टेशन, सेक्शन -------के बीच है.

[A] अग्रिम प्रस्थान [B] एसएलबी
[C] सबसे बाहरी पाइंट [D] उपर्युक्त में से कोई एक

**6.** On single line class 'B' station with Multiple Aspect Signalling , the Station section lies between the
(A) Advance Starters (B) S L Bs
(C) Outer most points (D) any one of the above

**7.** ------- का अभिप्राय रेलवे के किसी भाग पर गाड़ियों के संचालन के लिए तत्समय अपनाई गयी पद्धति से है.

[A] नियंत्रण पद्धति [B] यातायात का निर्देश
[C] कार्यचालन पद्धति [D] इनमें से कोई नहीं

**7.** The system adopted for the time being for the working of trains on any portion of a railway is known as
[A] system of controlling [B] direction of traffic
[C] System of working [D] none of these

8. बुलावा सिगनल को ----- के सिवाय किसी भी रोक सिगनल के नीचे लगाया जा सकता है.
[A]एफएसएस [B] एलएसएस [C] स्टार्टर [D] होम

**8.** Calling On signal may be provided below any stop signal, except
[A] FSS [B] LSS [C] starter [D] home

9. बुलावा सिगनल का उपयोग ---- अवसरों पर किया जाता है
[A] अवरुद्ध लाइन पर गाड़ी का प्रवेश [B] जब ऊपरी सिगनल खराब हो
[C] दोनों A & B [D] उपर्युक्त में से कोई नहीं

**9.** The occasions where Calling ON signal can be used are
(A) receiving a train on obstructed line (B) when signal above is defective
(C) both A & B (D) none of the above

10. शंट सिगनल को --- के सिवाय कोई भी रोक सिगनल के नीचे लगाया जा सकता है.
[A] एल एस एस [B] एफ एस एस [C] स्टार्टर [D] उपर्युक्त में से कोई नहीं

**10.** Shunt signal may be provided below any stop signal , except
[A] LSS [B] FSS [C] Starter [D] none of above

11. खराब स्वतंत्र शंट सिगनल को 'आन' पर पास करने के मामले में प्राधिकार --------है.
[A]टी.369 (1) [B] टी.806 [C] PLCT [D]टी./369 (3b)+PHS

**11.** The authority to pass defective Independent shunt signal at "ON", is
(A) T / 369 (1) (B) T / 806 (C) PLCT (D) T / 369 (3b)+PHS

12. जब कोई नया सिगनल लगाया जाता है या उसका स्थान बदला जाता है, सतर्कता आदेश ---- की अवधि के लिए दिया जाएगा.

[A] 15 दिन [B] 10 दिन [C]12 दिन [D]16 दिन

**12.** When a signal is newly erected or shifted, caution order shall be given for a period of

(A) 15 days (B) 10 days (C)12 days (D)16 days

13. किसी गाड़ी के लिए 'आफ' किए गए सिगनल को केवल ----जैसी आपात स्थिति में 'आन' स्थिति में वापस लाया जाए.

[A]सेक्शन नियंत्रक के अनुदेशों का पालन करने [B]स्टेशन मास्टर के अनुदेशों का पालन करने [C] टिकट जारी करने [D] दुर्घटना निवारित करने

**13.** A signal taken “OFF” for a train can be put to “ON” position in emergency only to

(A) obey SCOR instructions (B) obey Station Master`s instructions

(C) Issue tickets (D) avert an accident

14. प्रस्थान करने वाली गाड़ी के लिए स्टार्टर/अडवांस्ड स्टार्टर सिगनल को वापस लाने के लिए उसके लोको पायलट को ----- द्वारा सूचित किया जाए

[A] लिखित सूचना [B] सतर्कता आदेश [C] टी.369 (3बी) [D]उपर्युक्त में से कोई नहीं

**14.** To put back starter/advanced starter for a departing train, LP of the train should be advised through a

(A) written memo (B) C.O. (C) T / 369 (3b) (D) none of above

15. लोको पायलट, स्टेशन से प्रस्थान को नियंत्रित करने वाले सिगनलों के "आफ" होने पर भी अपनी गाड़ियों को उन स्टेशनों पर रोकेंगे, जहां ---------में उनका रुकना निर्धारित हो.

[A] वीजी [B] सीटीआर [C] डब्ल्यूटीटी [D] एसओबी

**15.** Even though departure signals are taken off, LP shall stop at stations where stoppages are scheduled in the

[A] VG [B] CTR [C] WTT [D] SOB

16. सिंगल लाइन पर स्टेशन पर रुकने वाली गाड़ी के आने के तुरंत बाद --------- के पाइंटों को व्यस्त लाइन के विरुद्ध सेट किया जाए.

[A] पीछे [B] आगे [C] दोनों सिरे [D] उपर्युक्त में से कोई नहीं

**16.** The points on single line, that must be set against the blocked line, immediately after the arrival of a train at the station

(A) Rear B) front (C) either end (D) none of above

17. डबल लाइन पर, स्टेशन पर रुकने वाली गाड़ी आने के तुरंत बाद-------- के पाइंटों व्यस्त लाइन के विरुद्ध सेट किया जाए.

[A] पीछे [B] आगे [C] दोनों सिरे [D] उपर्युक्त में से कोई नहीं

**17.** The points on double line, that must be set against the blocked line, immediately after the arrival of a train at the station

(A) rear (B) front (C) either end (D) none of above

18. शंटिंग प्रयोजन के लिए ----------सिगनलों का उपयोग नहीं किया जाएगा.

[A] आउटर [B] होम [C] एलएसएस [D] उपर्युक्त सभी

**18.** The signals that are prohibited to be used for shunting purposes is/are

(A) Outer (B) Home (C) LSS (D) All the above

19. सभी कांटों को सामान्यतया ----लाइन के लिए सेट किया जाए.

[A] लूप लाइन [B] टर्न आउट [C] सीधी लाइन [D] कोई भी लाइन

**19.** All points shall normally be set for the

[A] loop line [B] turn out [C] straight line [D] any line

20. जब कभी सिगनल निरीक्षक / ईएसएम द्वारा पाइंट / सिगनल /ब्लाक उपकरण को वियोजित किया जाता है तो स्टेशन मास्टर सुनिश्चित करेगा कि सिगनल निरीक्षक / ईएसएम द्वारा ----------जारी किया जाता है.

[A] पुन:संयोजन सूचना [B] वियोजन सूचना [C] खराब मेमो [D]इनमें से कोई नहीं

**20.** The notice that S M shall ensure , whenever points / signals / Block Instrument is disconnected by SI / ESM is

[A] Reconnection notice [B] disconnection notice

[C] Failure memo [D]none of these

21.पटाखों को ---- भी कहा जाता है

[क] कोहरा सिगनल [ख] फ्लेर सिगनल [ग]प्रदीप्त सिगनल [घ]इनमें से कोई नहीं

**21.** Detonators are also known as

[A] Fog signals [B] flare signals [C] illuminating signal [D]none of these

22.जब कोई पाइंट सिगनल द्वारा डिटेक्ट होता हो, खराब हो जाए तो उन पाइंटों को ---- के रुप में माना जाए.

[क]अंतर्पाशित [ख] गैर अंतर्पाशित[ग] कार्य चालन की स्थिति[घ] उपर्युक्त में से काई नहीं

**22.** Whenever a signal which is detecting a point becomes defective, these points shall be treated as

[A] Interlocked [B] non interlocked [C] working [D] none of above

23.पूरी तरह बिजली चले जाने के दौरान कोरे सिगनल को ----------सिगनल माना जाए.

[क] खराब सिगनल [ख] आफ थिति में सिगनल

[ग] कोई सिगनल नहीं [घ] उपर्युक्त में से काई नहीं

**23.** A blank signal under complete power off situation is to be treated as
(A) Defective signal (B) Signal at off (C) no signal (D) none of above

24.डबल लाइन / सिंगल लाइन पर टोकन रहित सेकशन पर जब एल एस एस खराब हो तो गाड़ी आरंभ करने के लिए प्राधिकार --- है.
[क] टी.369 (3b) [ख] पीएलसीटी [ग] टी.806+PN [घ] टी /C.602

**24.** On Double line/Single line tokenless when LSS is defective , Authority to proceed is
[A] T / 369 (3b) [B] P L C T [C] T / 806+PN [D] T/C.602

25.जब लोको पायलट प्रस्थान (स्टार्टर) को आंशिक रुप से पार करता है और अग्रिम प्रस्थान (अडवांस्ड स्टार्टर) से पहले रुक जाता है, तो ----------दिया जाता है.
[क] गार्ड द्वारा प्रतिहस्ताक्षरित मेमो [ख]टी.369 (3b)+PHS
[ग] अग्रिम प्रस्थान आफ में या पीएलसीटी [घ] उपर्युक्त सभी

**25.** The authority required by Loco Pilot when passes starter at "ON" partly and stopped before Advanced Starter
(A) Memo countersigned by Guard (B) T.369 (3b)+PHS
(C) Advanced starter taken off / PLCT (D) all the above

26.जब कभी रंगीन बत्ती सिगनल टिमटिमाता हो /कट रहा (बाबिंग करता) हो और स्थिर संकेत ------समय तक नहीं आता हो तो सिगनल को खराब माना जाए.
[क] 20सेकेन [ख] 30सेकेन [ग] 60सेकेन [घ] 120 सेकेन

**26.** The signal shall be treated as defective, whenever colour light signal is flickering / bobbing and does not assume a steady aspect for at least
[A] 20 seconds [B] 30 seconds [C] 60 seconds [D] 120 seconds

27.जब आई बी सिगनल खराब हो तो लोको पायलट को यह प्राधिकार दिया जाता है
[क] पीएलसीटी [ख] टी./369 (3b) [ग] दोनों A & B [घ] उपर्युक्त में से कोई नहीं

**27.** The authority given to the loco pilot at station, when I B S is defective
( A) P L C T (B) T / 369 (3b) (C) Both A & B (D) none of above

28.आई बी सिगनल के लिए उपलब्ध सुविधा
[क]पिछला स्टेशन मास्टर को फोन कनेक्ट होगा
[ख] अगला स्टेशन मास्टर को फोन कनेक्ट होगा
[ग] सेक्शन नियंत्रक को फोन कनेक्ट होगा [घ] टी पी सी को फोन कनेक्ट होगा

**28.** The facility that is provided on an I B signal post is
[A] Phone connecting the rear SM [B] Phone connecting the advance SM

[C] Phone connecting the SCOR [D] Phone connecting the TPC

29.जब आई बी एस आन पर हो तो लोको पायलट रुकेगा और ----------से तुंत संपर्क करेगा.

[क] अगला स्टेशन के स्टेशन मास्टर [ख] सेक्शन नियंत्रक

[ग] पिछला स्टेशन के स्टेशन मास् [घ] टीपीसी

**29.** When I B S is at `ON', the Loco Pilot shall stop in rear of the signal and contact

[ A) SM in advance B) SCOR C) SM in rear D) TPC

30.जब आई बी 'आन' पर हो, टेलीफोन खराब हो, तो ----------मिनट रुकने के बाद लोको पायलट दृश्यता स्पष्ट होने पर / न होने पर ----------किमीप्रघं की गति से अगले स्टाप सिगनल तक जाएगा.

[क] 10/8किमीप्रघं [ख] 25/10किमीप्रघं [ग]20/10किमीप्रघं

[घ]15/8किमीप्रघं

**30.** When IBS is at "ON" and the telephone is out of order, Loco Pilot after waiting for five minutes shall proceed when view is clear/not clear upto next stop signal at a speed not exceeding

A) 10 / 8kmph B) 25 / 10kmph C)20 / 10kmph D)15 / 8kmph

31.जहां कहीं आईबीएस लगाया गया है, एल एस एस ----------से अंतरपाशित होता है

[क] धुरा काउंटर [ख] ब्लाक उपकरण [ग] आईबीएस [घ] ट्रेलिंग पाइंट

**31.** Wherever I B S is provided, LSS is interlocked with

(A) axle counter (B) Block Instrument (C) IBS (D) trailing points

32. आईबीएस क्षेत्र में, आइबी सिगनल ----------से अंतरपाशित होता है.

[क] धुरा काउंटर [ख] ब्लाक उपकरण [ग] एलएसएस [घ]ट्रेलिंग पाइंट

**32.** In I B S area , the I B Signal is interlocked with

(A) axle counter (B) Block Instrument (C) LSS (D) trailing points

33.किसी भी परिस्थिति में घसीटे गए (ट्रेल थ्रू) कांटों पर से गाड़ी को ------ नहीं किया जाएगा.

[क] आगे बढ़ाना[ख] पीछे धकेलना [ग] एमपीएस के साथ चलानाD] इनमें से कोई नहीं

**33.** Over the trailed through points, under no circumstances should a train be

[A]move forward [B] backed [C] run with MPS [D] none of these

34.नियंत्रण कार्यालय, प्रति दिन ---------बजे अपने नियंत्रणाधीन सेक्शनों के सभी स्टेशनो को सामान्य कॉल द्वारा मानक समय की सूचना देगा.

[क] 08.00 बजे [ख] 16.00 बजे [ग] 00.00 बजे [घ] इनमें से कोई नहीं

**34.** The control office should advise the standard time daily by a general call to the stations at

[A] 08.00 hours [B] 16.00 hours [C] 00.00 hours [D] none of these

35.सभी स्टेशन मास्टर 16.00 बजे समय मिलाएंगे और ------रजिस्टर में प्रविष्टि करेंगे.

[क] गाड़ी सिगनल रजिस्टर [ख] सिवदू खराब रजिस्टर

[ग] उपस्थिति रजिस्टर [घ] PN आदान प्रदान रजिस्टर

**35.** All S Ms should correct the time at 16:00 hrs and make an entry in the

(A) T S R (B) S&T failure register

(C) Attendance registers (D) PN exchange register

36.केवल -------की पूर्व अनुमति से ही परिवहन के लिए गाड़ी में अति आयाम परेषण (ओडीसी) लगाया जा सकता है.

[क] सीआरएस [ख] रेलवे बोर्ड [ग] टी एक्स आर [घ] प्रमुख मुख्य परिचालन प्रबंधक

**36.** ODC shall be allowed to be attached by a train for transport only with prior sanction of

[A] CRS [B] RAILWAY BOARD [C] TXR [D] PCOM

37.घने कोहरे के दौरान पूर्ण ब्लाक पद्धति में गाड़ी की अधिकतम गति-----किमीप्रघं तक प्रतिबँधित है

[क] 25किमीप्रघं [ख] 8किमीप्रघं [ग] 60किमीप्रघं [घ] 20किमीप्रघं

**37.** During dense fog maximum speed of a train on Absolute block system shall be restricted to

[A] 25kmph [ B] 8kmph [C] 60kmph [D] 20kmph

38.गैर-अंतरपाशित पाइंट, टर्न-आउट और क्रासओवर पर गाड़ियों की गति सामान्यतया ----किमीप्रघं से अधिक नहीं होनी चाहिए.

[क] 8 किमीप्रघं [ख] 10 किमीप्रघं [ग] 15 किमीप्रघं [घ] 30 किमीप्रघं

**38.** Normally the speed of trains over Non-Interlocked points, turnouts and crossover shall not exceed

[A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

39. --------की पूर्व अनुमति से इंजन पुशिंग की अनुमति है.

[क] अगला स्टेशन के स्टेशन मास्टर [ख] पिछला स्टेशन के स्टेशन मास्टर

[ग] नोटिस स्टेशन के स्टेशन मास्टर [घ] उपर्युक्त में से कोई नहीं

**39.** Engine pushing is permitted with the prior permission of

(A) SM in advance (B) SM in rear
(C) SM of the notice station (D) none of above

40.जब प्रमुख बत्ती (हेड लाइट) खराब हो तो मार्कर बत्ती जलाने के बाद गाड़ी --------किमीप्रघं की प्रतिबंधित गति से जा सकती है.

[क] 40किमीप्रघं [ख] ब्लॉक सेक्शन में सेवेरेस्ट अस्थाई प्रतिबंधित गति
[ग] A या B जो भी कम हो [घ] उपर्युक्त में से कोई नहीं

**40.** When head light is defective after putting marker lights 'on' train can go with a speed not exceeding
(A) 40kmph (B) severest temporary speed restriction in the block section
(C) A or B which ever is less (D) none of above

41.जब स्टेशन मास्टर देखता है कि गाड़ी बिना पिछली बत्ती/पिछले बोर्ड के गुजर गई है (जहां बीपीएसी उपलब्ध न हो ) तो बगलवाली लाइन पर आगे बढ़ने वाले गाडियों को रोकेगा और -- जारी करेगा

[क]पीएलसीटी [ख] टी.369 (3b) [ग] सतर्कता आदेश [घ] मौखिक आदेश

**41.** When a SM observes a train passed without tail lamp/tail board (where BPAC is not provided ), shall stop all the trains proceeding on adjacent line and issue
(A) P L C T (B) T / 369 (3b) (C) caution order (D) verbal orders

42.आपात स्थिति में सहायक लोको पायलट, जहां उसे भारमुक्त करने का नजदीक पाइंट है, --- की प्रतिबंधित गति पर गाड़ी चलाने का प्रधिकार है.

[क] 30किमीप्रघं [ख] 40किमीप्रघं [ग] 60किमीप्रघं [घ] MPSएमपीएस

**42.** In case of emergency the Assistant Loco Pilot can be authorized to drive the train up to the nearest point where he can be relieved (speed not exceeding )
A) 30kmph B) 40kmph C) 60kmph D) MPS

43.आपात स्थिति में बिना ब्रेकयान के मालगाड़ी चलाने का आदेश ----------द्वारा दिया जा सकता है.

[क] वरि.मंडल परिचालन प्रबंधक [ख] मंडल परिचालन प्रबंधक
[ग] मंडल रेल प्रबंधक [घ] या तो A या B

**43.** In an emergency , a goods train with out brake van can be ordered by
(A) Sr .DOM (B) DOM (C) DRM (D) either A or B

44.पैसेंजर या मेल/एक्सप्रेस गाड़ियों के पिछले ब्रेकयान (एस एल आर) के पीछे जोड़े जाने वाले अधिकारी निरीक्षण डिब्बे के अतिरिक्त अधिकतम ----डिब्बे लगाए जा सकते हैं.

[क] 1 [ख] 2 [ग] 3 [घ] 5

**44.** Maximum number of coaches in addition to the officers inspection coach attached in rear of SLR of a Passenger / Mail & Express trains

[A] 1 [B] 2 [C] 3 [D] 5

45 .माल गाड़ी के पिछले ब्रेक यान के पीछे जोड़े जाने वाले डिब्बों की अधिकतम (या उससे समान संख्या )

[क] 1 [ख] 2 [ग] 3 [घ] 5

**45.** Maximum number of bogies ( or its equivalent ) attached in rear of the rear brake van by a goods train is

[A] 1 [B] 2 [C] 3 [D] 5

46. माल गाड़ी के पिछले ब्रेकयान के पीछे लगाए जाने वाले खराब वाहनों या खराब ईंजन की अधिकतम संख्या

[क] 1 [ख] 2 [ग] 4 [घ] कोई भी संख्या

**46.** Maximum number of damaged vehicle / engine allowed by a goods train.

[A] 1 [B] 2 [C] 4 [D] any number

47. आपात स्थिति में बिना गार्ड के मालगाड़ी चलाने का आदेश इनके द्वारा दिया जा सकता है.

[क] स्टेशन मास्टर [ख] उप मुख्य नियंत्रक

[ग] वरि. परिचालन प्रबंधक [घ] मंडल परिचालन प्रबंधक

**47.** In an emergency, a goods train without Guard can be ordered by

[A] SM [B] Dy. CHC [C] Sr. DOM [D] DOM

48. जब आई बी एस लगा हो तो स्टेशन मास्टर बिना गार्ड के गाड़ी के पीछे कोई गाड़ी नहीं भेजेगा, जब तक कि वह ----------नहीं पहुंचती हो.

[क] आई बी एस [ख] एफएसएस [ग] आगे का ब्लॉक स्टेशन [घ] इनमें से कोई नहीं

**48.** Where IBS is provided, the SM shall not dispatch a train in rear of the train running without Guard unless it reaches the

A) IBS B) First stop signal C) next block station D) none of these

49. स्वचालित ब्लाक सेक्शन क्षेत्र में किसी भी बिना गार्ड के गाड़ी के पीछे जाने की अनुमति तब तक न दी जाए, जब तक कि वह अगले ---------- पर पूरी तरह न पहुंच जाती हो.

[क] रिपोर्टिंग स्टेशन [ख] जंक्शन स्टेशन [ग] स्वचालित सिगनल [घ] गेट लॉज

**49.** In Automatic block territory, no train shall be allowed to follow a train without brake van / Guard , until it arrives complete at the next

A) Reporting station B) Junction station
C) Automatic signal D) gate lodge

50. बिना गार्ड के ---- के दौरान माल गाड़ियां चलाना पूरी तरह निषिद्ध है.

[क] तूफानी मौसम, [ख] संचार व्यवस्था पूर्ण रुप से भंग होने पर
[ग] टेंपररी सिंगल लाइन कार्यचालन [घ] उपर्युक्त सभी

**50.** Running of a goods train without Guard , is strictly prohibited during

[A] Tempestuous weather [B] total interruption of communications
[C] Temporary single line working [D] all the above

51. जब स्टेशन मास्टर को गरम धुरा की सूचना प्राप्त होती है तो गाड़ी को ------लाइन पर लेने की प्राथमिकता दी जाए.

[क] सैंड हम्प से उपलब्ध लाइन [ख] लूप लाइन
[ग] मेंन लाइन [घ] इनमें से कोई नहीं

**51.** When SM receives an advice of Hot axle on a train, it shall preferably be admitted on

[A] line provided with sand hump [B] loop line
[C] Main line [D] none of these

52. स्टेशन पर लदान/उतराई या टिपलिंग के बाद या स्टेशन से स्थाई स्टाक किलयर करने के बाद या अवैध बी पी सी के मामले में --------जांच आयोजित की जाए.

[क] गार्ड और स्टेशन मास्टर [ख] लोको पायलट और स्टेशन मास्टर
[ग] गार्ड और लोको पायलट [घ] स्टेशन मास्टर, गार्ड और लोको पायलट

**52.** The check that shall be conducted , while clearing stabled stock from a station /invalid BPC, is

A) Guard and SM B) LP and SM C) Guard and LP D) SM, Guard & LP

53. जबकभी गाड़ी इंजन बदला जाता है----------जांच आयोजित किया जाए

[क] ब्रेक कंटिन्युटी [ख] जीएलपी जांच [ग] ब्रेक पावर[घ] फील टेस्ट

**53.** The test that shall be conducted , whenever train engine is changed, is

A) brake continuity B) GLP check C) brake power D) feel test

54. 60 यूनिट वाली गाड़ी के जी एल पी जांच के लिए अनुमत समय ---------- है.

[क] 20 मिनट [ख] 60 मिनट [ग] 45 मिनट [घ] 30 मिनट

**54.** Time permitted for GLP check of a train consisting of 60 units is

[A] 20 minutes [B] 60 minutes [C] 45 minutes [D] 30 minutes

55. सी सी रेक बीपीसी की वैधता ----------है.

[क] 35दिन [ख] 7500किमी [ग] A या B जो भी पहले हो [घ] इनमें से कोई नहीं

**55.** The validity of CC rake BPC is

A) 35 days B) 7500 KM

C) A or B which ever is earlier D) none of these

56. प्रीमीयम रेक बीपीसी की वैधता ---------- है.

[क] गंतव्य तक [ख] 12 दिन [ग] 30 दिन [घ] 35 दिन

**56.** The validity of Premium rake BPC is

[A] till destination [B] 12 days [C] 30 days [D] 35 days

57. प्रीमीयम रेक बीपीसी की वैधता ---------- है.

[क] गंतव्य तक [ख] 12 दिन [ग] 30 दिन [घ] 35 दिन

**57.** The grace period given for Premium end to end BPC is

(A) one day (B) two days (C) three days (D) four days

58. एंड से एंड बीपीसी की वैधता ---------- है.

[क]12+3 दिन [ख] गंतव्य पर लदान पाइंट

[ग] गंतव्य पर TXR point [घ] दो TXR जांच पाइंट

**58.** The validity of End to end BPC is

(A)12+3 days ( B) loading point to destination

(C) TXR point to Junction station (D) two TXR checking points

59. जब कोई गाड़ी (लदान और उतराई वाले स्टेशन के अलावा ) अन्य स्टेशन पर ----------घंटे से अधिक समय के लिए खड़ी हो तो नया बीपीसी आवश्यक है.

[क] 72 घंटे [ख] 24 घंटे [ग] सात दिन [घ] चार दिन

**59.** Fresh B P C is required when train is stabled at a station ( other than loading and unloading station ) for more than

[A] 72 hours [B] 24 hours [C] seven days [D] four days

60. ----------की अनुमति से ही सामग्री गाड़ी चलाई जा सकती है.

[क] मंडल रेल प्रबंधक [ख] मंडल परिचालन प्रबंधक

[ग] प्रमुख मुख्य परिचालन प्रबंधक [घ] मंडल इंजीनियर

**60.** Material train shall be ordered to work with the permission of

[A] DRM [B] DOM [C] PCOM [D] DEN

61.सामग्री गाड़ी का ब्रेक पावर प्रमाणपत्र ----------दिनों के लिए वैध है

क] 30 दिन [ख] 21 दिन [ग] 15 दिन [घ] इनमें से कोई नहीं

**61.** The validity of a material train B P C , is

A) 30 days B) 21 days C) 15 days D) none of these

62.स्टेशन पर सामग्री गाड़ी को खड़ा करते समय सुरक्षित करने की जिम्मेदारी ----------की होगी.

क] गार्ड [ख] स्टेशन मास्टर [ग] स्टेशन मास्टर & गार्ड [घ]गार्ड और रेलपथ निरीक्षक

**62.** Responsibility of stabling a material train at a station, lies with

A) Guard B) Station Master C) SM & Guard D) Guard and PWI

63. अवरुद्ध लाइन पर गाड़ी लेते समय, अवरोध से (कम से कम ) -------मीटर की दूरी से *रोक हथ सिगनल* दिखाया जाए.

[क]. 45 मीटर [ख] 20 मीटर [ग] 120 मीटर [घ].180 मीटर

**63.** While receiving a train on to an obstructed line, *Stop hand signal* shall be exhibited from the point of obstruction at a distance of ( not less than )

(A) 45 metres (B) 20 metres (C) 120 metres (D) 180 metres

64. शंटिंग प्रचालन के दौरान गति ----------से अधिक नहीं होनी चाहिए.

[क] 10 किमीप्रघं [ख] 15किमीप्रघं [ग] 30 किमीप्रघं [घ]8 किमीप्रघं

**64.** The speed during shunting operations ,shall not exceed

[A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

65. ----------के पीछे अवरुद्ध लाइन पर स्लिप डिब्बे न रखे जाएंं.

[क] यात्री गाड़ी [ख] अकेला इंजन [ग] शंटिंग इंजन [घ] खड़ा लदान

**65.** Slip coaches shall not be kept on a blocked line in the rear of a

[A] Passenger carrying train [B] light engine

[C] Shunting engine [D] stabled load

66. यात्री गाड़ी की शंटिंग करते समय, स्लिप डिब्बों के सहित या रहित शंटिंग इंजन या गाड़ी इंजन फार्मेशन में लगाने से पहले इसे फार्मेशन से --------मीटर पहले रोका जाए.

[क] 45 मीटर [ख] 20 मीटर [ग] 15 मीटर [घ] 10 मीटर

**66.** While performing shunting on passenger carrying trains, the shunting engine before coming on to the formation should be stopped before the formation at a distance of

[A] 45 metres [B] 20 metres [C] 15 metres [D] 10 metres

67. शंटिंग करते समय ऐसे पाइंट जो सिगनल द्वारा सुरक्षित नहीं है, -----या ------ तरीके से ताला लगाया जाए.

[क] क्लैंप कर ताला बंद करना [ख] कॉंटर बोल्ट कर और पैड लॉक करना

[ग] या तो A या B [घ] इनमें से कोई नहीं

**67.** While performing shunting, the points which are not protected by signals must be locked by following methods

[A] clamped and padlocked [B] cotter bolted and padlocked
[C] Either A or B [D] none of these

68. विस्फोटक और पीओएल उत्पाद की शंटिंग करते समय अधिकतम गति ---------- किमीप्रघं से अधिक न हो.

क] 10 किमीप्रघं [ख] 15किमीप्रघं [ग] 30 किमीप्रघं [घ] 8 किमीप्रघं

**68.** The maximum speed while shunting of wagons containing explosives and P O L products shall be

[A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

69. खड़ी ढाल (स्टीप ग्रेडिएंóट) पर रोलर बेयरिडग वाहनों की शंटिंग हमेशा इंजन को ---------की ओर लगाकर की जानी चाहिए.

[क] सुविधा अनुसार [ख] ढाल को कम करने [ग] ढाल को बढ़ाने [घ] इनमें से कोई नहीं

**69.** Shunting of roller bearing vehicle on a steep gradient shall be done only with locomotive attached towards the

[A] As per convenience [B] falling gradient
[C] Raising gradient [D] none of these

70. आईबीएस और आटोमेटिक ब्लाक क्षेत्र में जब गाड़ी का लोको पायलट रेलपथ में कोई असामान्य स्थिति देखता है तो वह गाड़ियों के संचलन को रोकने के लिए -----धको सूचित करेगा.

[क] स्टेशन मास्टर [ख] आनेवाले गाड़ियों के लोको पायलट

[ग] दोनों A & B [घ] इनमें से कोई नहीं

**70.** When the Loco Pilot of a train experiences any abnormal condition on the track, in case of IBS / Automatic block territories, shall stop the movement of trains and inform

[A] Station Master [B] Loco pilots of following trains
[C] both A & B [D] none of these

71. लोको पायलट को जब लर्च की सूचना प्राप्त होती है और बाद में इंजीनियरी पदाधिकारी के साथ गाड़ी भेजी जाती है, लोको पायलट को सतर्कता आदेश दिया जाता है कि

[क] एकदम रुकेगा और इंजीनियरिंग कर्मचारियों द्वारा मार्गदर्शन किया जाएगा

[ख] सीधे जाएगा (रन थ्रू ) [ग] 10 किमीप्रघं से आगे बढ़ें

[घ] 8 किमीप्रघं की स.नि का पालन करेगा

**71.** When 'lurch' is reported and subsequently a train is sent with engineering official, caution order is given to the LP to

[A] stop dead and be guided by Engg.official [B] Run through

[C] Simply proceed with 10 kmph [D] observe SR of 8 kmph

72. जब *लर्च* की सूचना प्राप्त होती है और बिना इंजीनियरी पदाधिकारी के साथ गाड़ी भेजी जाती है, लोको पायलट को सतर्कता आदेश दिया जाता है कि वह एक दम रुके और यदि सुरक्षित हो तो -------किमीप्रघं से आगे बढ़े.

[क] 10 किमीप्रघं [ख] 15 किमीप्रघं [ग] 30 किमीप्रघं [घ]8 किमीप्रघं

**72.** When 'lurch' is reported and subsequently a train is sent in the absence of engineering official, caution order is given to the LP to stop dead if considered safe, proceed at a speed of

[A] 10 kmph [B] 15 kmph [C] 30 kmph [D] 8 kmph

73. 30 मिमी. से अधिक की पटरी टूटी होने के कारण पहली गाड़ी की गति ---------- किमीप्रघं होगी.

[क] 10 किमीप्रघं [ख] 15किमीप्रघं [ग] 30 किमीप्रघं [घ] 8 किमीप्रघं

**73.** Rail fracture of less than 30mm, the speed of first train shall be

[A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

74. 30 मिमी. से कम की पटरी टूटी होने के कारण दूसरी और बाद वाली गाड़ी की गति ---------किमीप्रघं होगी

[क] 10 किमीप्रघं [ख] 15किमीप्रघं [ग] 30 किमीप्रघं [घ] 8 किमीप्रघं

**74.** Rail fracture of less than 30mm, the speed of second and subsequent trains shall be

[A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

75. 30 मिमी. से अधिक की पटरी टूटी होने पर या बहु ैकचर होने पर गाड़ी की अनुमति देने के लिए इनका प्रमाणन आवश्यक है.

[क] सहायक इंजीनियर [ख]रेलपथ निरीक्षक [ग]चाबीवाला [घ] गैंगमेट

**75.** Rail fracture of more than 30 mm or multiple fractures, track is to be certified by

[A] AEN [B] PWI [C]key man [D] Gang mate

76. *अस्थाई इकहरी लाइन* कार्यचालन के दौरान लोको पायलट को --------प्राधिकार दिया जाएगा.

[क] पी एलसीटी [ख] सीएलसीटी [ग] टी/डी.602 [घ] टी/369(3बी)

**76.** During Temporary Single Line working, the written Authority given to Loco Pilot is

[A] P L C T [B] C L C T [C] T/D 602 [D] T/369(3b)

77. टीएसएल चालन के दौरान पहली गाड़ी की गति ----------किमीप्रघं है.

[ ] [क] 25 किमीप्रघं [ख] 10 [ग] 15 [घ] अधिकतम अनुमत गति

**77.** During T S L working, the speed of first train shall be

[A] 25 kmph [B] 10 [C] 15 [D] MPS

78. अवरुद्ध ब्लाक सेकशन में राहत इंजन भेजने के लिए लिखित प्राधिकार ----------है.
[क] टी /ए.602 [ख] टी /बी.602 [ग] टी /सी.602 [घ]टी /डी.602

**78.** Written authority to dispatch a relief engine into an obstructed block section, is
[A] T/A 602 [B] T/B 602 [C] T/C 602 [D] T/D 602

79. यदि यात्री गाड़ी / मालगाड़ी अपने सामान्य रनिंग समय के बाद और -------/-----मिनट में न आए तो स्टेशन मास्टर सक्षम रेल सेवक को भेजने की व्यवस्था करेगा.
[क] 5/10 मिनट [ख] 10/20 मिनट [ग] 20/30 मिनट [घ] 15/25मिनट

**79.** S M shall arrange to send a competent railway servant, if a passenger / goods train does not turn up, even after the normal running time and
[A] 5/10 minutes [B] 10/20 minutes [C] 20/30 minutes [D] 15/25 minutes

80. विभाजित गाड़ी कार्यचालन के दौरान, लाको पायलट अगला भाग क्लियर करने के लिए दिया जाने वाला गार्ड द्वारा जारी लिखित प्राधिकार----------है.
[क] टी/ए.602 [ख] सतर्कता आदेश [ग] टी/609 [घ] लिखित मेमो

**80.** During divided train working, the written authority issued by the Guard of the train , to the L P to clear the first portion , is
[A] T/A 602 [B] Caution order [C] T/609 [D] Written memo

81. गाड़ी सेक्शन में बिना गार्ड के विभाजित हुई पहला भाग को छोड़ने के बाद लाइट इंजन ----- प्राधिकार पर दूसरा भाग को वापस लाने के लिए जाएगा.
[क] टी/ए..602 [ख] सतर्कता आदेश [ग] टी/609 [घ] लिखित मेमो

**81.** When a train without Guard is divided in the section, after dropping the first portion, light engine returning to pickup second portion shall proceed on authority
[A] T/A.602 [B] Caution order [C] T/609 [D] Written memo

82. जब लोको पायलट **आन** पर स्वचालित सिगनल पार करता है, --- का सहायक नियम का पालन करेगा

[क]जब दृश्यता स्पष्ट है 10 किमीप्रघं और रात में 8 किमीप्रघं
[ख] जब दृश्यता स्पष्ट है 15किमीप्रघं और जब दृश्यता स्पष्ट नहीं है 8 किमीप्रघं
[ग] 10 किमीप्रघं [घ] जब दृश्यता स्पष्ट है 15 किमीप्रघं और रात में 10 किमीप्रघं

**82.** When Loco Pilot passes an automatic stop signal at ON, he shall observe speed restriction of
[A] 10 kmph when view is clear and 8 kmph in night
[B] 15kmph when view is clear and 8 kmph when view is not clear

[C] 10 kmph [D] 15 kmph when view is clear and 10 kmph in night

83. राहत इंजन ----------किमीप्रघं की प्रतिबंधित गति से आगे बढ़ेगी.

[क] 25किमीप्रघं [ख] 15/10 किमीप्रघं [ग] सामान्य गति [घ]15/8 किमीप्रघं

**83.** Relief loco shall proceed with a restricted speed of

[A] 25kmph [B] 15 /10 kmph [C] normal speed [D] 15 / 8 kmph

84. कोई भी व्यकित बिजली के ब्लाक उपकरण को तब तक प्रचालित नहीं करेगा जब तक कि उसके पास प्रिंसिपल/क्षेरेप्रसं द्वारा जारी सक्षमता प्रमाण पत्र न हो जो --------अवधि के लिए वैध होना चाहिए.

[क] 3 वर्ष [ख] 5 वर्ष [ग] 2वर्ष [घ] 7 वर्ष

**84.** No person shall operate the electrical block instruments unless he holds a competency certificate issued by Principal/ZRTI which shall be valid for a period of

[A] 3 years [B] 5 years [C] 2 years [D] 7 years

85. सिंगल लाइन टोकनरहित सेकशन / डबल लाइन सेकशन पर सामान्य प्रस्थान प्राधिकार ---है.

[क] एलएसएस की **आफ** स्थिति [ख]पीएलसीटी [ग] पीएलसीटी या टोकन [घ]स्टेशन मास्टर द्वारा हस्ताक्षरित कोई भी दस्तावेज

**85.** Normal authority to proceed on Single Line token less sections/Double line sections

[A] 'OFF' position of LSS [B] PLCT

[C] PLCT or token [D] Any written document signed by SM

86. अनुरक्षण कार्य करने के लिए एक विभाग से अधिक विभाग एक भाग को ब्लाक करना यह कह जाएगा.

[क] पावर ब्लाक [ख] इंटिग्रेटेड ब्लाक [ग] शैडो ब्लाक [घ] कोई विशिष्ट नाम नहीं

**86.** Blocking of a portion of line for maintenance work by more than one department is called

[A] power block [B] integrated block

[C] shadow block [D] no specific name

87.दो ब्लाक स्टेशनों के बीच में ब्लाक सेक्शन के दोनों सिरों से एक साथ प्राप्त किया हुआ ब्लाक

[क] पावर ब्लाक [ख] समाकलित ब्लाक [ग] शैडो ब्लाक [घ] डबल ब्लाक

**87.** Block availed from either end of the block section, between two block stations simultaneously, is known as

[A] Power block [B] Integrated block [C] Shadow block [D] Double block

88.इंजीनियरी शाखा, परिचालन शाखा के सात परिपत्र सूचना जारी करने की व्यवस्था करेगा जो ----------के लिए वैध होगा.

[क] एक वर्ष [ख] 48 घंटे [ग] 3 माह [घ] छह माह

**88.** Engineering branch will arrange with the Operating branch for the issue of a circular notice, which shall be valid for

[A] one year [B] 48 hours [C] 3 months [D] six months

89.परिपत्र सूचना जारी करने के बाद मंडल परिचालन प्रबंधक (DOM) ----------दिन पहले सर्व संबंधित को संदेश जारी करेगा.

[क] एकवर्ष [ख] 2 दिन [ग] 3 माह [घ] छह माह

**89.** After issuing circular notice, how many days in advance, the DOM will issue an all concerned message

[A] one year [B] 2 days [C] 3 months [D] six months

90.इंजीनियरी पदाधिकारी,जो --से कम ओहदे का न हो,फील्ड टेलीफोन पर ब्लाक प्राप्त करने के लिए प्राधिकृत किया जाएगा.

[क] वरि.मंडल इंजीनियर [ख] रेलपथ निरीक्षक [ग] मंडल इंजीनियर [घ] सहायक इंजीनियर

**90.** Authorized engineering official to obtain blocks on the field telephone, who shall not be below the rank of

[A] Sr.DEN [B] PWI [C] DEN [D] AEN

91. पटरी बिछाना या फिर से गर्डर डालने जैसा प्रमुख कार्य चल रहा हो, तो डबल लाइन सेकशन के बगल वाली लाइन पर ----------किमीप्रघं की गति प्रतिबंध का पालन किया जाए.

[क] 30 किमीप्रघं [ख]40 किमीप्रघं [ग]50 किमीप्रघं [घ] एकदम रुक जाए और आगे बढ़े.

**91.** When major work such as relaying and re-girdering is in progress , a speed restriction that shall be observed on the adjoining line in double line section, is

[A] 30 kmph [B] 40 kmph [C] 50 kmph [D] stop dead and proceed

92.पानी का स्तर गिट्टी स्तर से अधिक हो, लेकिन पटरी स्तर से नीचे हो, तो प्रत्येक गाड़ी को निमनुसार अनुमति दिया जाए.

[क] गाड़ी को अनुमति न दें

[ख]गाड़ी को रोकें और पानी का स्तर कम होने के बाद गाड़ी को आ±ा÷ बढ़ाएंं.

[ग] गाड़ी को रोकें और पी डब्लयूअðई द्वारा पायलट की जाए [घ] गाड़ी आने से पहले दो व्यक्ति स्लीपरों के दोनों सिरों पर एक –एक बराबर में चलें

**92.** When water rises above the ballast level but below rail level, train should be allowed as per following

[A] Train shall not be allowed

[B] Train must stop and proceed after the velocity of the water is reduced.

[C] Train must stop and be piloted by the PWI.

[D] Track should be walked over by two men abreast one at either end of the sleepers before the train

93. जब पटरी के ऊपर से पानी बहता हो ,

[क] गाड़ी को अनुमति न दें

[ख] गाड़ी को रोकें और पानी का स्तर कम होने के बाद गाड़ी को आ±ा÷ बढ़ाएंं.

[ग] गाड़ी को रोकें और पी डब्लयूअðई द्वारा पायलट की जाए

[घ] गाड़ी को रोकें और गैंगमैन द्वारा पायलट की जाए

**93.** When water overflows above the rails –

[A] Train shall not be allowed

[B] Train must stop and proceed after the velocity of the water is reduced.

[C] Train must stop and be piloted by the PWI.

[D] Train must stop and be piloted by gang man

94.जब हेल्थी सेकशन को अस्थाई तौर पर आइसोलेट किया जाता है और फिर से चालू किया जाता है, यदि कोई भी गाड़ी खराब सेकशन में प्रवेश नहीं किया हे हेल्थी सेकशन में पहली गाड़ी की गति (दिन/रात ) में

[क] 25/10 किमीप्रघं [ख] 20/10 किमीप्रघं [ग] 40/40 किमीप्रघं[घ] 60/30 किमीप्रघं

**94.** When healthy section is temporarily isolated and re-energised, if train entered faulty section, the speed of the first train by ( day / night ) shall be

[A] 25/10 kmph [B] 20/10 kmph [C] 40/40 kmph [D] 60/30 kmph

95. पावर ब्लाक के दौरान केवल ---------- गाड़ियों को चलाने की अनुमति है.

[क] डीज़ल से चलने वाली [ख] विद्यत से चलने वाली

ग]एम ईएमयू [घ] कोई भी गाड़ी को अनुमत नहीं है

**95.** During power block, the trains that are allowed to run.

[A] diesel traction hauled [B] electric traction hauled

[C] M E M U [D] no train permitted

96."नोटिस स्टेशनों" में, जहां मंडल सतर्कता आदेश जारी किया जाएगा --- में विनिर्दिष्ट है.

[क] कार्यचालन समयसारणी [ख] रेक लिंक [ग] सीटीआर [घ] ढाल चार्ट

**96.** The notice stations, where divisional caution order shall be issued are specified in

[A] Working time table [B] rake link [C] CTR [D] Gradient chart

97.सतर्कता आदेश में संबंधित स्टेशन का नाम पूरा लिखा जाएगा, -------- का उपयोग न किया जाए.

[क] ब्दों [ख] कोड ग] बड़े अक्षर [घ] अंकों

**97.** In the Caution order,names of the stations concerned should be written in full, but not

[A] Letters [B] Codes [C] Capitals [D] Numerals

98.सतर्कता आदेश में ----------क्रम में प्रचलित सभी गति प्रतिबंधों का उल्लेख होना चाहिए.

[क] जियोलाजिकल क्रम में [ख] ग्रेडिएंट वारं

[ग] जियोग्राफिकल क्रम में [घ] कंट्रोल सेक्शन वार

**98.** The caution order should have all the speed restrictions in force in

[A] geological order [B] gradient wise

[C] Geographical order [D] control section wise

99.जब समपार फाटक की सुरक्षा करने वाला सिगनल खराब हो तो अंतरपाशित समपार फाटक को ----------माना जाए.

[क]खराब सिगनल के साथ अंतर्पाशित [ख]गैर अंतर्पाशित

[ग]फाटक नियमों का पालन करने के लिए सतर्कता आदेश जारी करें[घ] इनमें से कोई नहीं

**99.** When the signal protecting the interlocked level crossing gate becomes defective the gate treated as

[A] Inter locked with signal defective [B] non inter locked

[C] Simply issue C.O to observe gate rules [D]none of above

100.सभी गाड़ियों को प्रथम रोक सिगनल पर रोका जाए और इसके बाद ----कि.मी.प्र.घं. की गति से सावधानीपूर्वक स्टेशन में प्रवेश करने (सिगनल को आफ करते हुए) की अनुमति दी जाए.

[क] अंतर्पाशन के मानकों के अनुसार [ख] 20 किमीप्रघं[ग]15 किमीप्रघं [घ]30 किमीप्रघं

**100.** During non interlocking working, all trains must be brought to a stop at the FSS and then allowed to enter (taking off signals) cautiously at speed not exceeding
[A] As per standard of interlocking [B] 20 kmph [C] 15 kmph [D] 30 kmph

101.निम्नलिखित अवसरों पर रेलवे लाइन की पेट्रोलिंग की जाती है

[क] रात या दिन के दौरान अचानक आंधी या तूफान के समय

[ख]नागरिक अस्तव्यस्त के दौरान सुरक्षा पेट्रोलिंग

[ग] मानसून के समय

[घ] उपर्युक्त में से कोई एक

**101.** Patrolling of railway line is done on following occasions.
[A] In the event of sudden storm or hurricane during day or night
[B] Security patrolling during civil disorders
[C] Monsoon time
[D] any one of the above.

102.यदि निर्धारित आगमन समय के बाद 15मिनट के बाद भी पेट्रोलमैन वापस न आए, तो स्टेशन मास्टर गाड़ी को रोक देगा और ------किमीप्रघं की प्रतिबंधित गति के लिए सतर्कता आदेश जारी करेगा.

[क] 40 किमीप्रघं [ख] विशेष. सतर्कता आदेश
[ग] एकदम रुक जाए और 10किमीप्रघं [घ] एकदम रुक जाए और 15किमीप्रघं

**102.** If the night patrolman does not turn up even after 15 minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to
[A] 40 kmph [B] Special Caution
[C] Stop dead and 10kmph [D] stop dead and 15kmph

103.मालगाड़ी द्वारा अधिकतम अनुमत विस्फोटक से लदे मालडिब्बों की संख्या
[क] तीन [ख]पांच [ग] दस [घ] कोई भी संख्या

**103.** Maximum number of wagons containing explosives permitted by goods trains is
[A] Three [ख] Five [ग] Ten [घ] any number

104.अधिकारियों के निरीक्षण डिब्बों को ---- की अनुमति नहीं है.
[क] रेस विशेष गाड़ियां [ख] डाक ए©सप्रेस गाड़ियां
[ग] मिलटरी विशेष गाड़ियां [घ] उपर्युक्त सभी

**104.** Officers inspection carriages are not to be permitted by
[A] Race specials [B] Postal express trains

[C] Military specials [D] All the above

105.मेल / एकसप्रेस गाड़ी में इंजन के बाद और सबसे पिछले वाहन के रुप में कम से कम एक ----------हो.

[क] ब्रेक यान [ख]एंटीटेलिस्कोपिक या स्टील बॉडी एसएलआर [ग]सेलून [घ]निक्रिय लोको

**105.** A mail/express train shall have after loco in front and in rearmost at least one
[A] Brake Van [B] Anti Telescopic or Steel Bodied SLR [C]Saloon [D] Dead Loco

106.मानक – I R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[क]50 किमीप्रघं [ख]75 किमीप्रघं [ग]15 किमीप्रघं [घ]110 किमीप्रघं

**106.** At standard – I R interlocked station the maximum speed permitted for the train over main line points is

[A] 50 kmph [B] 75 kmph [C]15 kmph [D] 110 kmph

107.मानक – II R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[क] 140 किमीप्रघं [ख] 75 किमीप्रघं [ग]160 किमीप्रघं [घ] 110 किमीप्रघं

**107.** At standard – II R interlocked station the maximum speed permitted for the train over main line points is

[A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

108.मानक – III R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[A] 140 किमीप्रघं [ख] 75 किमीप्रघं [ग]160 किमीप्रघं [घ] 110 किमीप्रघं

**108.** At standard – III R interlocked station the maximum speed permitted for the train over M L points is

[A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

109.मानक – IV R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[क]140 किमीप्रघं [ख] 75 किमीप्रघं [ग] 160 किमीप्रघं [घ]110 किमीप्रघं

**109.** At standard – IV R interlocked station the maximum speed permitted for the train over main line points is

[A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

110.बार-बार बिजली खराबी की रिपोर्ट ---------को दी जाती है.

[क] मंडल परिचालन प्रबंधक [ख] मंडल विद्युत इंजीनियर

[ग] मंडल सिवदू इाजीनियर [घ] विद्युत सिगनल अनुरक्षक

**110.** Frequent power failures are to be reported to

[A]DOM [ख]DEE [ग]DSTE [घ] ESM

111.सिंगल लाइन टोकनरहित सेकशन पर, एलएसएस के आगे (एफएसएस की विपरीत दिशा तक ) शंटिंग करने के लिए प्राधिकार -----है.

[क] टी/806 + शंट चाबी या P.N [ख] एलएसएस के नीचे शंट सिगनल आफॅ स्थिति में [ग] केवल टी/806 [घ] टी/806 + वापस आने के लिए लिखित मेमो

**111.** On S/L token less sections, to perform shunting beyond LSS ( up to opposite FSS ) the authority is

[A] T/806 + shunt key or PN [ख] shunt signal below LSS taken 'off'

[ग] T/806 only [घ] T/806 +written memo to come back

112.सिगनल व दूर संचार कार्य, जिनके अनुरक्षण के लिए संयोजन / वियोजन आवश्यक है ---- ग्रूप के अधीन है

[क] समूह A [ख] समूह - B ग]समूह - C [घ] विशेष श्रेणी

**112.** S & T works for maintenance which definitely require Disconnection / Reconnection are grouped under

[A]Group -A [B] Group-B [C]Group-C [D] Special Class

113.**विद्युत उपकरण के कोई भी भाग में आग लगने के मामले में, प्रभावित भाग को पहले**

[क] पानी से बुझाएंं [ख] पूर्णत: अलग करें [ग]रेत से बुझाएंं [घ] इनमें से कोई नहीं

**113.** In the event of fire on any part of electrical equipment, the affected part is first to be

[A] Extinguished by water [B] completely isolated

[C] Extinguished by mud [D] none of these

114.यदि जाने वाला इंजन या वाहन ------की समाप्ति के बाद भी, जो सबसे धीमी गति की मालगाड़ी के रनिंग समय से अधिक है, न पहुंचा हो तो राहत इंजन भेजा जाए.

[क].30 मिनट [ख].45 मिनट [ग].10 मिनट [घ].5 मिनट

**114.** A relief engine should be sent, if the engine or vehicles running away have not arrived even after a lapse of ---------more than the running time of the slowest speed goods train.

A)30 min B)45 min C)10 Min D)5 Min

115 दुर्घटनाओं को कितने कोटियों में वर्गीकृत किया गया है.

[क] एक [ख] दो [ग] तीन [घ] पांच

**115.** Accidents are classified into how many categories

[A] One B] Two C] Three D] Five

116.परिणामी दुर्घटना का एक उदाहरण----------है.

[क] आन पर सिगनल पास करना [ख] ATP के बिना ब्लाक सेक्शन में प्रवेश करना

[ग] गाड़ी में आग लगना [घ] निवारित टक्कर

**116.** An example of consequential accident is

A] Signal passing at "ON" B] Entering into B/S w/o ATP

C] Fire on train D] Averted collision

117.संकेतात्मक दुर्घटना का एक उदाहरण------है.

[क] ब्लाक नियमों का उल्लंघन [ख]गाड़ी में आग लगना

[ग] टक्कर [घ] समपार फाटक दुर्घटनाएंं

**117.** An example of indicative accident is

A] Breach of block rules B] Fire on train

C] Collisions D] LC gate accidents

118.स्टाप सिगनल को डेंजर पर पास करना -----प्रकार की दुर्घटना है.

[क] संकेतात्मक दुर्घटना [ख] निवारित टक्कर

[ग] परिणामी गाड़ी दुर्घटना [घ] उपर्युक्त में से कोई नहीं

**118.** Passing stop signal at Danger is this type of accident.

A] Indicative accident B] Averted collision

C] Consequential train accident D] none of above

119. किसी दुर्घटना को गंभीर दुर्घटना मानी जाए जब उसमें ---------- शामिल हो.

[क] मृत्यू [ख] गंभीर रूप से जख्मी

[ग] रेल संपत्ती को 2 करोड रुपयों की हानी [घ]उपर्युक्त में से कोई भी

**119.** An accident ,shall be treated as Serious accident when it is involved in

A] death B] serious injury

C] loss to Railway property of Rs.2 crores D] Any one of the above

120.ट्रंक मार्गों पर, जब यातायात निम्नलिखित घंटों या उससे अधिक समय के लिए अवरुद्ध हो तो उसे यातायात का गंभीर अवदद्ध माना जाता हे.

[क]12 घंटे B] 8 घंटे C] 24 घंटे D] 6 घंटे

**120.** On trunk routes when traffic is disrupted for following hours or more, it is treated as serious dislocation of traffic.

A] 12 hours B] 8 hours C] 24 hours D] 6 hours

121. स्टेशन सीमा के बाहर यदि दो गाड़ियों के बीच की दूरी --------या अधिक हो तो ऐसी घटना को निवारक टककर नहीं माना जाए.

[क] 600 मीटर से कम [ख] 400 मीटर से कम

[ग] 1400 मीटर से कम [घ] 180 मीटर से कम

**121.** To treat any accident as averted collision, outside station limits, the distance between two trains shall be.

A] less than 600 meters B] less than 400 meters

C] less than 1400 meters D] less than 180 meters

122.जब गाड़ी ने किसी व्यकित को टककर मारी है या ऊपर से गाड़ी गुजर गई है और कोई भी जिम्मेदार व्यकित नहीं है, तो मृत शरीर को

[क] उपेक्षा करें [ख] अगले स्टेशन पर सूचना दें [ग] सीधे जाते समय मेमो छोड़ें

[घ] मेमो के साथ नज़दीकी फाटक या स्टेशन पर मृत शरीर को छोड़ें

**122.** When a person is knocked down or run over and dead, no responsible person is available, body shall be

A] ignored B] inform at next station

C] drop a memo while runs through

D] Handed over at nearest gate lodge or station with a memo

123.जब द्वितीय श्रेणी डिब्बे में हत्या की रिपोर्ट प्राप्त होती हो तो डिब्बे को ---- पर अलग किया जाएगा

[क] अगला स्टेशन [ख] स्टेशन जहां पर अपराध हुआ

[ग] स्टेशन, जहॉ डिब्बे को बदला जा सकता है. [घ] गंतव्य

**123.** When murder is reported in second class compartment, carriage to be detached at the

A] Next station B] Station where crime was detected

C] Station, where the coach can be replaced D] Destination

124.ब्लाक नियमों के भंग का एक उदाहरण

[क] गलत लाइन पर गाड़ी का प्रवेश

[ख]प्रस्थान प्राधिकार के बिना गाड़ी ब्लाक सेक्शन में प्रवेश करना

[ग] साइडिंग में गाड़ी का प्रवेश [घ] उपर्युक्त सभी

**124.** An example of breach of block rules is

A] Train entered into wrong line B] train entered into B/S without a ATP

C] Train entered into siding D] all the above

125.जब आउट स्टेशन पर दुर्घटना होती है, मेन लाइन अवरुद्ध हो और एम आर टी आवश्यक हो तो दुर्घटना सायरन---है.

[क] चार लंबा [ख] तीन लंबा एक छोटा [ग] चार लंबा एक छोटा [घ] तीन लंबा

**125.** Accident siren " accident at out station, main line obstructed and MRT required " is

A] Four long B] Three long one short
C] Four long one short D] Three long

126.दुर्घटना राहत गाड़ी (एआरटी) तैयार होने का निर्धारित समय दिन/रात में---------- है.

[क] 15मिनट & 20 मिनट [ख] 30 मिनट & 45 मिनट
[ग] 1 घंटा &1 1/2 घंटा [घ] इनमें से कोई नहीं

**126.** The target time for turning out ART during day and night is

A ] 15minutes & 20 minutes B] 30 minutes & 45 minutes
C] 1 hour and 1 ½ hour D] none of these

127.प्रत्यक्ष / अप्रत्यक्ष प्रेषण के लिए चिकित्सा राहत गाड़ी (एमआरटी) तैयार रहने का निर्धारित समय---है.

[क] 15 मिनट और 20 मिनट [ख] 30 मिनट और 45 मिनट
[ग] 10 मिनट और 15 मिनट [घ] 5 मिनट और 30 मिनट

**127.** The target time for turning out MRT for direct/indirect dispatch, is

A] 15 minutes and 20 minutes B] 30 minutes and 45 minutes
C] 10 minutes and 15 minutes D] 5 minutes and 30 minutes

128.ए आर टी के लिए माक ड्रिल्स ----------में एक बार आयोजित किया जाए.

[क] 1 माह [ख] 2 माह [ग] 3 माह [घ] एक वर्ष

**128.** Mock drills for ART shall be conducted once in

A] a month B]2 months C] 3 months D] a year

129. गाड़ी चलाने के लिए खतरनाक माना जाता है. ( 24 घंटों में वर्षा )

[क] 1 सेंमी [ख] 5 सेंमी [ग] 10 सेंमी [घ] 15 सेंमी

**129.** This is considered as dangerous for running trains ( Rainfall in 24 hours )

A]1 cms B]5 cms C]10 cms D] 15 cms

130. -------किमी की तेज हवा को गाड़ी चलाने के लिए खतरनाक माना जाता है

[क] 60 किमीप्रघं या अधिक [ख] 65 किमीप्रघं या अधिक

[ग] 50 किमीप्रघं या अधिक [घ] 5 cms या अधिक

**130.** Heavy wind is considered dangerous for running trains if wind velocity is

A] 60 kmph or more B] 65 kmph or more

C] 50 kmph or more D] 5 cms or more

*****

**Part-III Objective -ADVANCED TRANSPORTATION ( Select any 20 questions from the following.**

1. द.म.रे.के महाप्रबंधक का नाम _____.
क) विनोद कुमार यादव ख) जी.एन.अस्थाना ग) गजानन माल्या
घ) एम.एस.जयंत

**1.** Name of the General Manager, S.C.Railway
[A]VINOD KUMAR YADAV [B]G.N.ASTHANA [C] GAJANAN MALLYA
[D] M S JAYANT

2. द.म.रे.के प्रमुख मुख्य परिचालन प्रबंधक का नाम_____.
क) आर. के. सक्सेना ख) जी.एन.जगन्नाथ ग) एस.के.अग्रवाल घ) एन. मधुसूदन राव

**2.** Name of Principal Chief Operations Manager, S.C.Railway is
[A]R.K.SAXENA [B] J.N.JAGANATH [C] S.K.AGARWAL
[D] N MADHUSUDAN RAO

3. रेलवे बोर्ड के अध्यक्ष का नाम_____.
क) आई.आई.एम.राणा ख) विनय मित्तल ग) अश्विनी लोहानी घ) विनोद कुमार यादव

**3.** Name of the Chairman, Railway Board is
[A]I.I.M.RANA [B] VINAY MITTAL[C] ASWANI LOHANI [D] VINOD KUMAR YADAV

4. यातायात सदस्य का नाम_____.
क) मोहम्मद जमशेद ख) विनय मित्तल ग) विवेक सहाय घ) गिरीश पिल्लै

**4.** Name of the Member Traffic is
[A]MOHD JAMSHED [B]VINAY MITTAL
[C] VIVEK SAHAI [D] GIRISH PILLAI

5. आर डी एस ओ कहाँ स्थित है_____.
क) सिकंदराबाद ख) लखनऊ ग) नई दिल्ली घ) बेंगलुरु

**5.** RDSO is located at
[A]SECUNDERABAD [B]LUCKNOW [C]NEWDELHI [D]BANGALORE

6. मुख्य रेल संरक्षा आयुक्त का कार्यालय कहाँ स्थित है_____.
क) ग्वालियर ख) भोपाल ग) चेन्नई घ) लखनऊ

**6.** The Chief Commissioner of Railway Safety's office is located at
[A]GWALIOR [B] BHOPAL [C] CHENNAI [D]LUCKNOW

7. साधारण नियम_____द्वारा जारी किये जाते हैं.

क) आरडीएसओ ख) भारत सरकार ग) प्राधिकृत अधिकारी घ) सीसीआरएस

**7.** General Rules are issued by.

[A]RDSO [B] Govt. of India [C] Authorised officer [D] CCRS

8. किसी सेक्शन में 24 घंटों में चलाई जाने वाली गाडियों की संख्या को -------- कहा जाता है.

क) थ्रू पुट ख) वैगन टर्न राउंड ग) सेक्शन क्षमता घ) डीडब्ल्यूबी

**8.** The number of trains which can be run on a section in 24 hours is termed as

[A]Throughput [B] Wagon Turn Round [C]Section Capacity[D] DWB

9. किसी सेक्शन में चलाए गए, उस सेक्शन के थ्रू पुट को, यातायात के वॉल्यूम के रुप में --------- में दिया जाता है.

A) 8 घंटे B) 16 घंटे C) 24 घंटे D) 36 घंटे

**9.** Throughput of a section is given as the volume of traffic carried over a section in

[A]8 hours [B] 16 hours [C] 24 hours [D] 36 hours

10. स्कॉट फार्मुला में, 'T' का तात्पर्य _____ है

A) ब्लॉक परिचालन समय

B) क्रिटिकल ब्लॉक सेक्शन पर तेज माल गाडी का रनिंग समय

C) क्रिटिकल ब्लॉक सेक्शन पर धीमी माल गाडी का रनिंग समय

D) दक्षता तत्व

**10.** In Scotts's formula , 'T' means

[A] Block Operation Time
[B]Running time of fastest Goods train Over Critical Block Section
[C]Running Time of Slowest Train Over Critical Block Section
[D]Efficiency factor

11.स्कॉट फार्मुला में, 't' का तात्पर्य _____ है

A) ब्लॉक परिचालन समय

B) क्रिटिकल ब्लॉक सेक्शन पर तेज माल गाडी का रनिंग समय

C) क्रिटिकल ब्लॉक सेक्शन पर धीमी माल गाडी का रनिंग समय

D) दक्षता कारक

**11.** In Scotts's formula , 't' means

[A] Block Operation Time
[B]Running time of fastest Goods train Over Critical Block Section
[C]Running Time of Slowest Train Over Critical Block Section
[D]Efficiency factor

12.स्कॉट फार्मुला में, 'E' का तात्पर्य _____ है

A) ब्लॉक परिचालन समय

B) क्रिटिकल ब्लॉक सेक्शन पर तेज माल गाडी का रनिंग समय

C) क्रिटिकल ब्लॉक सेक्शन पर धीमी माल गाडी का रनिंग समय

D) दक्षता कारक

**12.** In Scotts's formula , 'E' means

[A] Block Operation Time

[B]Running time of fastest Goods train Over Critical Block Section

[C]Running Time of Slowest Train Over Critical Block Section

[D]Efficiency factor

13.किसी सेक्शन को सैचुरेटेड माना जाएगा जब लाईन क्षमता _____से अधिक हो.

A) चार्टेड क्षमता का 100% B) चार्टेड क्षमता का 90%

C) चार्टेड क्षमता का 80% D) चार्टेड क्षमता का 70%

**13.** A Section will be considered saturated when line capacity exceeds.

[A] 100% of charted capacity [B] 90% of charted capacity

[C] 80% of charted capacity [D]70% of charted capacity

14. द.म.रेलवे में स्टेशन का नाम _____ जहॉ कोयला लदान किया जाता है.

A) मलखेड रोड B) राजमंड्री C) आरकेपी साईडिंग/मंचिर्याल D) सनतनगर

**14.** In S.C.Railway the station where coal loading is done is

[A]MALKHED ROAD [B]RAJAHMUNDRY

[C]RKP SDG/MANCHIRYAL [D] SANATNAGAR

15. द.म.रेलवे के स्टेशन का नाम _____ जहॉ से सीमेंट का लदान किया जाता है.

A) बेल्लमपल्ली B) मलखेड रोड C) मणुगुरू D) हगरी

**15.** In S.C.Railway the station where cement loading is done is

[A]BELLAMPALLI [B] MALKHED ROAD

[C] MANUGURU [D] HAGRI

16. वैगन टर्न राउंड का उच्च अंक_____दर्शाता है.

A) इम्मोबिलिटी वेगन B) टर्मिनल रुकौनी में वृद्धि

C) डीडब्ल्यूडी में वृद्धि D) उपर्युक्त सभी

**16.** High Figure of wagon turn round denotes

[A] Wagon immobility [B] Increase in Terminal detentions

[C] Increase in DWB [D] All the above

17.वैगन टर्न राउंड का कार्यनिष्पादन_____के अनुसार परिकलित किया जाता है.

A) घंटे B) दिन C) हफ्ते D) वैगन

**17.** Wagon turn round performance is denoted in terms of

[A] HOURS [B] DAYS [C] WEEKS [D] WAGONS

18. यदि वैगन टर्न राउंड की संख्या कम हो तो, कार्यनिष्पादन_____के रूप में माना जाता हे.

A) अच्छा B) असामान्य C) कमजोर D) इनमें से कोई नहीं

**18.** If the number of wagon turn round is less , the performance is considered to be

[A] GOOD [B] ABNORMAL [C] POOR [D] None of these

19.वैगनों की गणना _____में एक बार आयोजित की जाती है.

A) 3 वर्ष B) एक वर्ष C) 5 वर्ष D) 6 माह

**19.** Wagon census is conducted once in

[A] 3YEARS [B] A YEAR [C] 5 YEARS [D] 6MONTHS

20.माल गाडियों का क्रम _____की उपलब्धता पर निर्भर है.

A) पॉवर B) पाथ C) कर्मीदल और स्टॉक D) उपर्युक्त सभी

**20.** The ordering of goods trains depends on the availability of

[A] POWER [B]PATH [C] CREW&STOCK [D]ALLTHE BOVE

21.एनआरसेल का तात्पर्य_____.

A) नंबर्ड रसीद B) नॉट रिसीव्ड C) नॉट रिपोर्टेड D) नेम रिकॉर्ड

**21.** NR cell means

[A] NUMBERED RECEIPT [B]NOT RECEIVED

[C]NOT REPORTED [D] NAME RECORD

22.क्षेत्रीय स्तर पर यात्री यातायात के प्रबंधन का कार्य _____द्वारा देखा जाता है.

A) सीएसओ B) सीएसएस C) सीपीटीएम D) सीएफटीएम

**22.** At Zonal level the management of Passenger Traffic is looked after by

[A] CSO [B] CSS [C] CPTM [D] CFTM

23. समय सारणी _____में एक बार जारी की जाती है.

A) 6 माह B) एक वर्ष C) 2 वर्ष D) 3 वर्ष

**23.** Time Tables are issued every

[A] 6 months [B] year [C] 2 years [D] 3 years

24. लोकोआउटेज का तात्पर्य है कि यातायात के लिए उपलब्ध लोको की औसतन संख्या____ उपयोग में है.

A) 24 घंटे B) एक माह C) 10 दिन D) 15 दिन

**24.** Loco outage means the average number of locos available to traffic use in

[A] 24hours [B] a month [C] 10 days [D] 15 days

25. स्कॉट फार्मुला में दक्षता तत्व का मूल्य _____ के रूप में लिया जाता है.

A) 8/10 B) 6/10 C) 7/10 D) 9/10

**25.** The value of Efficiency factor in Scotts formula is taken as

[A] 8/10 [B] 6/10 [C] 7/10 [D] 9/10

26. नॉन पूल्ड माल डिब्बे _____मार्कर के साथ पहचाने जाते है.

A) 'एनपी' B) 'पी' C) 'एन' D) इनमें से कोई नहीं

**26.** The Marker with which Non pooled wagons are identified is

[A] 'NP' [B] 'P' [C] 'N' [D] None of these

27. सेक्शन की सेक्शनल गति को _____के रूप में जाना जाता है.

क) बुक्ड गति ख) एमपीएस ग) नॉर्मल गति घ) प्रतिबंधित गति

**27.** 'Sectional speed' of a section is otherwise known as

[A] Booked speed [B] MPS [C] Normal speed [D] Restricted speed

28. "जांच समिति " को अपनी रिपोर्ट मंडल रेल प्रबंधक को प्रस्तुत करने के लिए अधिकतम समय सीमा _____होती है.

क) डी+3 ख) डी+7 ग) डी+5 घ) डी+11

**28.** Maximum time limit for 'Inquiry Committee' to submit the report to DRM is

[A] D+3 [B] D+7 [C] D+5 [D] D+11

29. गार्ड को 10 घंटे से अधिक ड्यूटी करने के बाद बाहरी स्टेशन विश्राम _____.

क) 8 घंटे ख) 6 घंटे ग) 12 घंटे घ) 16 घंटे

**29.** Out station rest for a Guard performing more than 10 hours duty

[A] 8 hours [B] 6hours [C] 12hours [D] 16hours

30. अखिल भारतीय गाडी समय सारणी _____द्वारा बनाई जाती है.

क) क्षेत्रीय रेलवे ख) सीआरआईएस ग) रेलवे बोर्ड घ) आरडीएसओ

**30.** All India Trains at a glance is prepared by

[A] Zonal Railway [B] CRIS [C] Railway Board [D] RDSO

31. मालडिब्बा किमी / मालडिब्बा दिन _____को सूचित करता है.

क) मालडिब्बा मोबिलिटी ख) मालडिब्बा उपयोगिता

ग) औसत गति घ) उपर्यूक्त सभी

**31.** Wagon kms /Wagon day indicates

[A] Wagon Mobility [B] Wagon Utilisation

[C] Average Speed [D] All The above

32. इंजीनियरिंग भत्ते को प्रति ---------किमी 6 मिनिट की दर से गणना की जाती है.

क) 50 किमी ख) 500 किमी ग) 200 किमी घ)100 किमी

**32.** Engineering Allowance is calculated at the rate of 6 min per every

[A]50kms [B]500kms [C]200kms [D] 100kms

33. एचओईआर के अंतर्गत वर्गीकरणों की संख्या_____

क) 5 ख) 2 ग) 4 घ) 3

**33.** No of classifications under HOER

[A] 5 [B] 2 [C] 4 [D] 3

34. छठे वेतन आयोग के अनुसार प्रथम श्रेणी पास की पात्रता के लिए ग्रेड वेतन_____

क) लेवल VI & और उससे उपर ख) लेवल V & और उससे उपर ग) लेवल VII & और उससे उपर घ) इनमें से कोई नहीं

**34.** Eligibility criteria of Grade pay for availing First class pass as per VII PC Rs

[A]Level VI & above [B] Level V & above [C] Level VII & above [D] None of these

35. बडी शस्ती देने के लिए मानक फार्म_____का प्रयोग किया जाता है.

क) एसएफ 11 ख) एसएफ 1 ग) एसएफ 5 घ) इनमें से कोई नहीं

**35.** Standard form to be used for issuing Major Penalty is

[A]SF11 [B]SF1 [C]SF5 [D] None of these

36. छोटी शस्ती देने के लिए मानक फार्म_____का प्रयोग किया जाता है.

क) एसएफ 11 ख) एसएफ 5 ग) एसएफ 1 घ इनमें से कोई नहीं

**36.** Standard form to be used for issuing Minor Penalty is

[A]SF11 [B]SF5 C]SF1 [D] None of these

37. पैत्रक छुट्टी _____दिनों की अवधी के लिए अनुमत है.

क) 10 दिन ख) 15 दिन ग) 20 दिन घ) 30 दिन

**37.** No of days permissible for Paternity leave is

[A] 10days [B] 15 days [C] 20 days [D] 30 days

38. बाल शिक्षण भत्ता_____बच्चों के जीवित रहने पर अनुमत है.

क) 3 ख) 4 ग) 2 घ) 1

**38.** Children's Education allowance is permissible for how many no of surviving children.

[A] 3 [B] 4 [C] 2 [D] 1

39. सुविधा पास पर आश्रितों की अधिकतम संख्या_____है.

क) 1 ख) 2 ग) 3 घ) 4

**39.** Maximum no of dependents allowed on a Privilege pass is

[A] 1 [B] 2 [C] 3 [D] 4

40. सुविधा पास में जब आश्रितों को शामिल किया जाता है तो अधिकतम व्यक्तियों की संख्या----------है.

क) 3 ख) 5 ग) 7 घ) कोई सीमा नहीं

**40.** Maximum no of persons allowed on a Privilege pass when dependents are included is

[A]3 [B] 5 [C] 7 [D] no limit

41. **समय सारणी प्रतिवर्ष ----------से लागू होती है.**

क) 1 जनवरी ख) 1 अप्रैल ग) 1 जुलाई घ) 1 अक्तूबर

**41.** Time Table every year will be with effect from
[A] 1st January [B] 1st April [C] 1st July [D] 1st October

42.जनता की समय सारणी (ट्रेन्स एट ए ग्लांस) यात्री जन को----------रु में जारी की जाती है. क) 30 रु ख) 45 रु ग) 70 रु घ) मुफ्त

**42.** Rate of Public Time Tables (Trains at a Glance) to travelling public is
[A] Rs 30/- [B] Rs 45/- [C] Rs 70/- [D] Free of cost

43.गाडी सं. 12760 में, दूसरा अंक "2" ---------को सूचित करता है.
क) क्षेत्रीय रेलवे ख) मंडल रेलवे ग) सुपर फास्ट घ) मेल/एक्स

**43.** In train No. 12760, the second digit "2" indicates
[A] Zonal Railway [B] Divisional Railway [C] Super fast [D] Mail/Exp

44.अधिकारियों के सेलून को ----------गाडी को लगाया नहीं जाता है.
क) मिलिटरी विशेष ख) पोस्टल विशेष ग) दौड विशेष घ) उपर्यूक्त सभी

**44.** Saloons of officers shall not be attached to
[A] Military Spl [B] Postal Spl [C] Race Spl [D] All the above

45.मिलरेल संगठन विभिन्न सेवाओंं की गतिविधियों से संबंधित कार्य देखते है.
क) पोस्टल सेवाएं ख) रेल सेवाएं ग) मिलिटरी सेवाएं घ) मिलेनियम सेवाएंं

**45.** Milrail organization deals with movement of various
[A] Postal services [B]railwayservices
[C] military services [D] millennium services

46. किसी सेक्शन पर अधिकतम अनुमत गति का निर्धारण ---------- द्वारा किया जाता है. क) महा प्रबंधक ख) मुख्य परिचालन प्रबंधक
ग) मुख्य विद्युत इंजीनियर घ) रेल संरक्षा आयुक्त

**46.** The maximum permissible speed over a section is prescribed by
[A] GM [B]COM [C] CEE [D] CRS

47. इंजन की खराब उपयोगिता से ----------होता है.
क) पॉवर उपलब्धता में कमी आती है ख) सॉर्टिंग और आगमन लाइनों को ब्लाक करता है. ग) दोनों क और ख घ) उपर्युक्त में से कोई नहीं

**47.** Poor Engine utilization leads to
[A] reduced power availability [B] blocking of sorting and reception lines
[C] Both 'A'&'B' [D]None of the above

48. गाडी इंजन घंटे का कुल गाडी किलोमीटर पर सांख्यीकीय से गाडी को औसत गति देता है.

क) औसत गति ख) डब्ल्यूटीआर ग) थ्रू पुट घ) एनटीकेएम

**48.** The Ratio of Total Train Kilometres to Train Engine Hour gives the
[A] Average speed .[B]WTR [C]Throughput [D]NTKM

49.रनिंग कर्मचारियों को ---------- के रुप में वर्गीकृत किया गया है.
क)गहन ख) अपवादी ग) निरंतर घ) ईआई रोस्टर

**49.** Running staff are classified as .
[A]Intensive [B] Excluded [C] Continuoues [D] EI roster

50. ओडीसी परेषण ----------नहीं होना चाहिए.
A) लूस शंटेड B) हैंड शंटेड C) हंप शंटेड D) उपर्युक्त सभी

**50.** ODC consignment shall not be
[A]loose shunted [B]Hand shunted [C]Hump shunted [D] All the above

51,यार्ड में यदि गाडियों का आगमन अधिक है और प्रस्थान कम है, तो इससे ------ होगा A) इंजन की अधिक उपयोगिता B) इंजन की कम उपयोगिता
C) डब्ल्यूटीआर में सुधार D) यार्ड में संकुलन

**51.** If reception of trains is more in a yard and dispatch of trains is less, it leads to
[A]More engine utilization [B]less engine utilization
[C]improvement in WTR [D]Yard congestion

52.यदि रेलवे के कार्य व्यय में वृद्धि होती है, तो परिचालन अनुपात निष्पादन ---------- हो जाएगा
A) कमजोर B) उच्च C) कोई प्रभाव नहीं होगा D) उपर्युक्त में से कोई नहीं

**52.** If working expenses of a Railway are increasing, the operating ratio performance will become
[A]poor [B]high [C]does not affect [D] None of the above

53.यदि रेलवे की सकल राजस्व प्राप्ति में वृद्धि होती है, तो परिचालन अनुपात निष्पादन---------- हो जाएगा
A) कमजोर B) उच्च C) कोई प्रभाव नहीं होगा D) उपर्युक्त में से कोई नहीं

**53.** If Gross revenue receipts of a Railway are increasing, the operating ratio performance will become
[A]poor [B]high [C]does not affect [D] None of the above

54. गाडी दुर्घटना में यात्री शामिल होने पर ---------- द्वारा जांच की जाएगी.

A) सहायक अधिकारी B) कनिष्ठ प्रशासनिक ग्रेड अधिकारी C) वरिष्ठ पर्यवेक्षक D) उपर्युक्त में से कोई नहीं

**54.** Train accidents involving passenger shall be inquired by .

[A]Asst officers [B] JA Grade officers
[C]Senior supervisors [D] None of the above

55.अनुमोदित विशेष अनुदेश रेल संरक्षा आयुक्त द्वारा जारी किए जाते है.

क) मुख्य परिचालन प्रबंधक ख) मंडल रेल प्रबंधक
ग) रेल संरक्षा आयुक्त घ) मुख्य यातायात प्रबंधक (जी&पीपी)

**55.** Approved Special Instructions are issued by

[A]PCOM [B]DRM[C] Commissioner of Railway Safety [D]CTM(G&PP)

56. रेल संरक्षा आयुक्त संगठन ---------- मंत्रालय के अधीन कार्य करता है.

A) रेल B) पोस्टल C) नागर विमानन D) रक्षा

**56.** Commissioner of Railway Safety Organization functions under Ministry of----------

[A]Railways [B]Postal [C]Civil Aviation [D]Defence

57. सहायक नियमों में संशोधन ---------- द्वारा जारी किया जाता है.

क) महाप्रबंधक ख) प्रमुख मुख्य परिचालन प्रबंधक
ग) मुख्य संरक्षा आयुक्त घ) रेल संरक्षा आयुक्त

**57.** Amendments to Subsidiary Rules are issued by .

[A]GM [B]PCOM [C] CSO [D]CRS

58. मालडिब्बों की आवधिक ओवरहॉलिंग ---------- डिपो में की जाती है.

A) आरम्भिक अनुरक्षण डिपो B) प्रत्येक गाडी परीक्षक डिपो
C) नामित गाडी परीक्षक डिपो D) सेकंडरी अनुरक्षण डिपो

**58.** Periodical overhauling of wagons are conducted at .

[A] Primary maintainance depots [B]every TXR depots
[C]Nominated TXR Depots [D]Secondary Maintanance depots

59. "सी" श्रेणी ओडीसी विशेष गाडी की स्वीकृति ----------द्वारा दी जाती है.

A) रेल संरक्षा आयुक्त B) प्रमुख मुख्य इंजीनियर
C) प्रमुख मुख्य परिचालन प्रबंधक D) उपर्युक्त सभी

**59.** Sanction for 'C' class ODC special trains has to be given by

[A]CRS [B] PCE [C]PCOM [D]All the above

60. समय सारणी बनाने से पहले ----------प्राधिकारीं से संपर्क किया जाता है.

A) राजस्व प्राधिकारी B) आरएमएस प्राधिकारी

C) जिला कलेक्टर D) परिवहन प्राधिकारी

**60.** Authorities that are consulted before the preparation of time tables are.

[A]Revenue authorities [B] RMS

[C] District Collectors [D] Transport Authorities

61. मूल स्टेशन पर प्रस्थान नियत करते समय, एक्सप्रेस गाडी के लिए आदर्श समय ---------- होता है.

A) मध्याह्न (दोपहर) B) मध्याह्न (दोपहर) भोज के बाद

C) मध्य रात्रि D) रात्रि भोज के बाद

**61.** While fixing the departure, an ideal time for an over night express train at originating station is

[A] afternoon [B]after lunch [C] mid nigh [D] after Dinner

62. किसी मंडल का मंडलीय मालडिब्बा शेष मंडल में ----------सहित पहियों पर कुल सभी मालडिब्बे होता है.

A) केवल अप्रभावी B) केवल विभागीय

C) दोनो क और ख D) उपर्युक्त में से कोई नहीं

**62.** Division wagon balance of a division is the total of all wagons on wheels in the division including.

[A] only ineffective [B] only departmental

[C] both A & B [D] none of above

63. वरिष्ठ मंडल परिचालन प्रबंधक की अध्यक्षता में सभी शाखाधिकारियों के साथ मंडल समय-सारणी बैठक में----------को प्रतिनिधी के रुप में लेखे में लिया जाता है.

A) डीआरयूसीसी के सदस्य B) एमपी / एमएलए

C) दोनो क और ख D) उपर्युक्त में से कोई नहीं

**63.** The Representations that are taken into account In the Divisional time table meeting held with branch officers presided by Sr.DOM are

[A] DRUCC members [B] MP/MLA's [C] both A & B [D]none of the above

64. मंडल समय सारणी बैठक के कार्यवृत्त ---------- को अक्तूबर माह में भेजे जाते है.

A) सीटीएम B) सीपीटीएम C) डीआरएम D) सीएफटीएम

**64.** In the month of October minutes of Divisional time table meeting sent to.

[A]CTM [B] CPTM [C]DRM [D] CFTM

65. प्रति वर्ष ---------- माह में आयोजित अंतर रेलवे समय-सारणी समन्वय बैठक की अध्यक्षता कार्यकारी निदेशक (कोचिंग) करते है.

A) जनवरी/फरवरी B) अक्तूबर/नवंबर C) जुलाई/अगस्त D) अप्रैल/मई

**65.** Every year presided over by the Executive Director(Coaching) Inter Railway Time Table coordination meeting held generally in the month of

[A]Jan/Feb [B]Oct/Nov [C] July/Aug [D]Apr/May

66. प्रति वर्ष जनवरी / फरवरी माह में आयोजित अंतर रेलवे समय-सारणी समन्वय बैठक की अध्यक्षता ----------कार्यकारी निदेशक (कोचिंग) करते है.

A) कार्यकारी निदेशक (मालभाडा) B) कार्यकारी निदेशक (कोचिंग) C) कार्यकारी निदेशक (वाणिज्य)

D) कार्यकारी निदेशक (संरक्षा)

**66.** Inter Railway Time Table coordination meeting held generally in the month of Jan/ Feb every year presided over by the

[A] Executive Director(Freight) [B]Executive Director(Coaching)
[C] Executive Director(Commercial) [D] Executive Director(Safety)

67. समय, दूरी, वजन आदि मापने के लिए बेसिक यूनिट ---------- होते है.

A) सेकंडरी यूनिट B) डिराव्ड यूनिट
C) प्राइमरी यूनिट D) फंडामेंटल यूनिट

**67.** The basic units for measuring time, distance, weight, etc. are

[A]Secondary units [B]Derived units
[C] Primary units [D] Fundamental unit

68. दो प्राइमरी यूनिट का गुणा----------होता है.

A) सेकंडरी यूनिट B) डिराव्ड यूनिट
C) प्राइमरी यूनिट D) फंडामेंटल यूनिट

**68.** Multiplication of two primary units is.

[A]Secondary units [B]Derived units
[C] Primary units [D] Fundamental unit

69. इनपुट या आउटपुट की मात्रा ----------द्वारा दी जाती है.

A) सेकंडरी यूनिट B) डिराव्ड यूनिट
C) प्राइमरी यूनिट D) फंडामेंटल यूनिट

**69.** Quantum of input or output is given by
[A]Secondary units [B]Derived units
[C] Primary units [D] Fundamental unit

70. दो प्राइमरी यूनिट या प्राइमरी और मूलभूत (फंडामेंटल) यूनिट या दो मूलभूत यूनिटों के बीच अनुपात ----------होता है.

A) सेकंडरी यूनिट B) डिराईव्ड यूनिट
C) प्राइमरी यूनिट D) फंडामेंटल यूनिट

**70.** Ratio between two Primary units or Primary and Fundamental unit or of two Fundamental units.
[A]Secondary units [B]Derived units
[C] Primary units [D] Fundamental unit

71. सकल कार्य् व्यय से सकल राजस्व प्राप्तियों का अनुपात ----------होता है.

A) कार्य अनुपात B) परिचालन अनुपात
C) धन वापसी की दर D) उपर्युक्त में से कोई नहीं

**71.** Ratio of Gross working Expenses to Gross Revenue Receipts.
[A]Working Ratio [B] Operating Rati [C] rate of return [D] None of above

72. मंडलों को ---------- में विभाजित किया गया है.

A) ब्लॉकों B) सर्कलों C) जिलों D) उपर्युक्त सभी

**72.** Divisions are divided into
[A] Blocks,. [B] Circles [C] Districts [D] all the above

73एक सर्कल ---------- का संग्रहण है.

A) ब्लॉकों B) मंडलों C) क्षेत्रों D) जिलों

**73.** A circle is collection of.
[A]Blocks [B]Divisions [C]Zones [D]Districts

74. एक जिला ----------का संग्रहण होता है.

क) ब्लॉकों ख) मंडलों ग) सर्कलों घ) क्षेत्रों

**74.** A District is collection of.
[A]Blocks [B]Divisions [C] Circles [D] Zones

75. गहन रोस्टर के लिए रोस्टर घंटों की अधिकतम सीमा ----------घंटे है.

[A] 12 घंटे [B] 24 घंटे [C] 36 घंटे [D] 45 घंटे

**75.** Rostered hours maximum limit for intensive roster is

[A] 12 hours B] 24 hours [C] 36 hours [D] 45 hours

76. सेवानिवृत्ति उपदान की अधिकतम राशि ---------- रु. है.

[A] 20 लाख रु. [B] 10 लाख रु. [C] 25 लाख रु. [D] 15 लाख रु.

**76.** Maximum amount of Retirement Gratuity payable

[A] Rs20 LAKHS [B] Rs10 LAKHS [C] Rs25LAKHS [D] Rs15LAKHS

77. निलंबन आदेश के लिए उपयोग किया जाने वाला मानक फार्म ----------है.

[A] एसएफ-1 [B] एसएफ-2 [C] एसएफ-5 [D] एसएफ-11

**77.** Standard form to be used for order of suspension is

[A]SF-1 [B] SF-2 [C] SF-5 [D] SF-11

78. प्रसूति छुट्टी ----------दिनों की अवधि के लिए अनुमत है.

[A] 90 दिन [B] 120 दिन [C] 135 दिन [D] 180 दिन

**78.** Maternity leave permissible for a period of

[A]90 days [B]120 days [C] 135 days [D] 180 days

79. पितृत्व छुट्टी प्रसूति की तारीख से ----------महीने के भीतर ली जा सकती है.

A) 12 महीने B) 24 महीने C) 6 महीने D) 48 महीने

**79.** From the date of confinement Paternity leave to be availed within.

[A] 12 months [B] 24 months [C] 6 months [D]48 months

80. 140 टी हैड्रॉलिक क्रेन (बला) की अधिकतम गति ---------- किमीप्रघं है.

A) 40 किमीप्रघं B) 60 किमीप्रघं C) 80 किमीप्रघं D) 100 किमीप्रघं

**80.** Maximum speed of 140 T Hydraulic Crane (BG) is.
[A] 40 KMPH B] 60 KMPH [C] 80 KMPH [D] 100KMPH

81. मेल/एक्सप्रेस यात्री गाडियों के यात्री कोचों की आवधिक ओवरहॉलिंग का अंतराल---------- होता है.

A) 6 महीने B) 12 महीने C) 18 महीने D) 24 महीने

**81.** POH interval of passenger coaches run on Mail Exp/Passenger trains is
[A]6 months [B]12 months [C] 18 months [D] 24 months

82. यातायात आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, नॉन एसी कोचों के लिए ---------- % है.

A) 12 % B) 5 % C) 13.5 % D) 10 %

**82.** Percentage of spare coaches for Traffic requirements that must be kept at the depots for Non AC coaches is
[A] 12 % [B] 5 % [C] 13.5 % [D] 10%

83.यांत्रिक आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, एसी कोचों के लिए ------% होने चाहिए.

A) 8.5 % B) 16 % C) 5 % D) 10 %

**83.** Percentage of spare coaches for Mechanical requirements that must be kept at the depots for AC coaches is

[A] 8.5% [B] 16 % [C] 5% [D] 10%

84.यातायात आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, राजधानी/शताब्दी गाडियों के लिए ---------- % है.

A) 8.5 % B) 12 % C) 5 % D) 10 %

**84.** Percentage of spare coaches for Traffic requirements that must be kept at the depots for Rajdhani/Shatabdi trains is
[A] 8.5% [B]12 % [C] 5% [D] 10%

85.यातायात आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, एसी कोचों के लिए-------% है.

A) 8.5 % B) 6 % C) 5 % D) 10 %

**85.** Percentage of spare coaches for Traffic requirements that must be kept at the depots for AC coaches is

[A] 8.5% [B]6 % [C] 5% [D] 10%

86. यांत्रिक आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, राजधानी/शताब्दी कोचों के लिए --------- % है.

A) 12 % B) 6 % C) 5 % D) 10 %

**86.** Percentage of spare coaches for Mechanical requirements that must be kept at the depots for RAJDHANI/SHATABDI coaches is

[A] 12% [B]6 % [C] 5% [D] 10%

87. यांत्रिक आवश्यकताओं के लिए अतिरिक्त कोच जो डिपो में रखे जाते है, नॉन एसी कोचों के लिए ---------- % है.

A) 8.5 % B) 6 % C) 15 % D) 10 %

**87.** Percentage of spare coaches for Mechanical requirements that must be kept at the depots for Non AC coaches is

[A] 8.5% [B]6 % [C] 15% [D] 10%

88. ----------चार्ट में प्रत्येक सेक्शन में चलाई जाने वाली गाडियों, माल गाडियों के पथ सहित अनुसूचित गाडियां शामिल होती है.

A) प्लाटफार्म कब्जा चार्ट B) पिटलाइन कब्जा चार्ट
C) मास्टर चार्ट D) शिफ्ट वार बोर्ड चार्ट

**88.** Charts that contains scheduled trains running on each section Including paths for goods trains are called as

[A] Platform occupation charts [B]Pitline occupation charts
[C] Master charts [D] Shift wise board charts

89. "पार्सल एक्सप्रेस" के लिए बीपीसी की वैधता ----------है.

A) 10 दिन B) 2500 किमी
C) क या ख जो भी पहले हो D) 35 दिन या 7500 किमी जो भी पहले हो

**89.** BPC for "Parcel Express" is valid for

[A] 10 days [B]2500 km
[C] 'A' or 'B' whichever is earlier [D] 35 days or 7500 km whichever is earlier

90. यात्री गाडियों के विभिन्न प्रकार के अनुरक्षण ----------होते है.

A) प्राइमरीं B) सेकंडरी C) टर्मिनल मरम्मत D) उपर्युक्त सभी

**90.** Different types of maintenance of Passenger carrying trains are

[A]Primary [B] Secondary [C] Terminal attention [D] all the above

91. यात्री कोचों की मध्यवर्ती ओवरहॉलिंग के बीच का अंतराल---------- होता है.

A) 12 महीने B) दो आवधिक ओवरहॉलिंग C) 24 महीने D) 36 महीने

**91.** The period of interval of IOH of passenger coaches is between

[A]12 months[B] two POH [C] 24 months [D] 36 months

92. फस्ट डुवेल कैब डीज़ल इंजन ---------- है.

A) डब्ल्यूडीपी-4 डी B) डब्ल्यूडीएम-4 डी C) डब्ल्यूएजी-5 D) डब्ल्यूडीपी-4

**92.** First dual cab Diesel engine is

[A]WDP-4D [B]WDM-4 [C]WAG-5 [D]WDP-4

93. द.म.रेलवे पर, गाडियों को अधिकतम --------कोचों के साथ चलाने की अनुमति है.

A) 18 कोचों + वीपीयू B) 23 कोचों + वीपीयू C) 26 D) 24 कोचों + वीपीयू/आईसी

**93.** Running of trains In SCR is permitted with maximum no. of coaches

[A]18+VPU [B]23+VPU [C]26 [D]24 + VPU/IC

94. दक्षिण मध्य रेलवे पर मार्च 2018-19 के अंत में कुल लदान -------रहा.

[A] 125 MT [B]123.45 MT [C]122.5MT [D]121.01MT

94. Total loading of South Central Railway at the end of March 2018-19.

[A] 125 MT [B]123.45 MT [C]122.5MT [D]121.01MT

95. दक्षिण मध्य रेलवे पर वर्ष 2018-19 में कुल आपरेटिंग अनुपात ------- रहा.

[A] 88.2 [B]87.1 [C]110 [D]85

95. Operating ratio of south central railway for the year 2018-19.

[A] 88.2 [B]87.1 [C]110 [D]85

96. द.म. रेलवे पर इनमें से कौनसा पीएफटी स्टेशन नहीं है.

[A] नागलपल्ली [B] तिम्मापुर [C] शंकरपल्ली [D] सनतनगर

96. Which of the following is not a PFT's over S C Rly.
[A] Nagalapalli [B] Timmapur [C]Shankerpalli [D] SNAG

97. एलएचबी कोचों के लिए---------- किमी. वैधता है.
[A] 2000 [B]4000 [C]2500 [D] 3500

97. The Validity kms. for LHB Coaches.
[A] 2000 [B]4000 [C]2500 [D] 3500

98. भारतीय रेल पर कौनसी गाड़ी अधिकतम गति से चलती है.
[A] राजधानी एक्सप्रेस [B] शताब्दी एक्सप्रेस [C] वंदे भारत
[D] दूरंतों एक्सप्रेस

98. Which of the following train runs with maximum speed over Indian Railways.

[A] Rajdhani Express [B] Shatabdi Express [C] Vande Bharat
[D] Duranto Express

99. दक्षिण मध्य रेलवे के किस मंडल पर पैच ट्रिपलिंग कार्य आरंभ किया गया है.

[A] सिकंदराबाद [B] विजयवाड़ा [C] गुंतकल [D] हैदराबाद

99. On Which of the following divisions over S C Rly. Patch tripling has been commissioned.

[A] SC [B] BZA [C]GTL [D] HYB

100. सातवें वेतन आयोग के अनुसार गाडी नियंत्रक का भत्ता .है----------

(A).मा.प्र .रु 6000 (B).मा .प्र .रु7000 (C) .मा .प्र .रु 5000 (D) .मा.प्र .रु 10000

100. As per VIIth Pay commission train controller Allownace is _____.

(A) Rs 6000 p.m (B) Rs 7000 p.m (C) Rs 5000 p.m (D) Rs 10000 p.m.

101. पेंशन योजना के अनुसार VII PC न्यूनतम पेंशन .है ---------

(A).रु 3500 (B).रु 8500 (C).रु 9000 (D).रु 10500

101 .The Minimum pension as per VII PC pension scheme _____

(A) Rs 3500 (B) Rs 8500 (C) Rs 9000 (D) Rs 10500.

102. VII वेतन आयोग के अनुसार मिश्रित स्थानांतरण अनुदान .के बराबर होता है ----------

(A) 80% वेतन (B) 70% वेतन (C) 65% वेतन(D)35% वेतन

102..Composite transfer grant as per VII PC is equivalent to _____

(A) 80% pay (B) 70% pay (C) 65% pay (D) 35% pay

103.कार्यक्रम चलाया जा ---------- रेल मंत्रालय द्वारा रेल कर्मचारियों की सक्षमता में सुधार लाने के लिए . .रहा है

(A) रेल विजन (B) रेल विकास शिविर (C) सक्षम (D) रेल स्वच्छ पखवाड़ा

103..The Ministry of Railways Launched _____ programme for all Railway staff to improve their competence.

(A) Rail Vision (B) Rail Vikas Shibir

(C) Saksham (D) Rail Swachhta Pakhwada

104. भारतीय रेल पर जनता की सेवा नैतिकता पूर्ण ढंग से करने के लिए चलाए जा रहे कार्यक्रम का नाम----- .रखा गया है --

(A) सत्यमेव जयते (B) सत्यनिष्ठा (C) सक्षम (D) स्वच्छ पखवाड़ा

104.Indian Railways has Launched aprogramme on ethics in public governance names as _____

(A) Satya meva Jayathe (B) Satyanishtha

(C) Saksham (D) Rail Swachhta Pakhwada.

105.होता है ------ न्यू जेनरेशन वैगन का एक्सल लोड .

)A) टी 22.9 (B) टी 20.9 (C) टी 25.0 (D)टी 23

105.What is the axle load of new generation wagons.

(A) 22.9 T (B) 20.9 T (C) 25.0 T (D) 23T

106. बाक्सएन खाली रेक की अधिकतम गति .है --------

(A)किमीप्रघं 75 (B)किमीप्रघं 80 (C)किमीप्रघं 100 (D)किमीप्रघं 60

106.What is Maximum speed of BOXNR Empty Rake _____

(A) 75KMPH (B) 80 KMPH (C) 100 KMPH (D) 60 KMPH

107 .है ------सारणी की संख्या-वर्तमान कार्यचालन समय .

(A) 71 (B) 72 (C)74 (D) 73

107. The present Working Time Table number _____

(A) 71 (B) 72 (C) 74 (D) 73

108 .है ---------लोकोमोटिव की अधिकतम गति 9 रेलवे पर डब्ल्यूएजी .म .द .

(A)किमीप्रघं 75 (B)किमीप्रघं 80 (C)किमीप्रघं 100 (D)किमीप्रघं 160

108. What is Maximum speed of WAG 9 Locomotive over SC Rly _____

(A) 75KMPH (B) 80 KMPH (C) 100 KMPH (D) 160 KMPH

109 यदि गाडी समय पर नहीं चल रही है तो स्टेशन मास्टरबोर्ड दर्शाकर गति --------- लोको पायलट को , .ठीक करने के लिए कहेगा

(A) वेल रन बोर्ड (B) रन वेल बोर्ड (C) हरी झंडी (D) इनमें से कोई नहीं

109. If train is losing Punctuality , to make up speed of the train SM has to advice the LP by exhibiting _____ board.

(A) WELL RUN BOARD (B) RUN WELL BOARD

(C) GREEN FLAG (D) NONE OF THESE.

110.सुपर फास्ट गाडी कहलाती है , हो ------- जिस गाडी की औसत गति .

(A)किमीप्रघं 75 (B)किमीप्रघं 80 (C)किमीप्रघं 100 (D)किमीप्रघं 55

110. Super fast train means ,The average speed is ____

(A) 75 KMPH (B) 80 KMPH (C) 100 KMPH (D) 55 KMPH

111.कोचिंग रेक के आरंभिक अनुरक्षण के लिए आबंटित अधिकतम समय सीमा है .

(A) घंटे 8 (B) घंटे 6 (C) घंटे 4 (D) घंटे 10

111. The maximum time slot allotted for Primary maintenance of coaching rake.

(A) 8 hrs (B) 6 hrs (C) ) 4 hrs (D) 10hrs.

112 1400 एचपी मेमू/डेमू गाड़ियों के लिए बीपीसी ---------- दिन के लिए वैध होता है.

(A) दिन 7 या 3500 (B) दिन 7 किमी या 2500

(C)दिन 10 किमी या3500 (D)दिन 7 किमी या 7500

112. The BPC of MEMU/DEMU 1400 HP trains is valid for

(A) 3500KM or 7days (B) 2500KM or 7days

(C) 3500KM or 10days (D) ) 7500KM or 7days.

Updated on April-2019.

*****

MCQs on Establishmnet Matters ( DAR, Conduct, Pass and HOER) (FINAL)

1. कार्य नियोजन घंटे के नियमानुसार कर्मचारियों के ---------श्रेणी में वर्गीकृत किया गया है. As per Hours of Employment Rule employees are classified into _____ number of categories.
   A. Four चार B. Three तीन C. Two दो D. Six छह

2. इन्टेंसिव श्रेणी के कर्मचारियों के लिए सप्ताह में, नियोजन के घंटों की संवैधानिक सीमा -------है.What is the statutory limit of hours of employment of Intensive Category employee in a week?
   A. 60 Hrs घंटे B. 45 Hours. घंटे C. 75 Hrs घंटे D. 54 घंटे

3. प्रतीक्षालय का बेयरर ---------- श्रेणी के अंतर्गत आता है.Waiting Room Bearer comes under _____ Classification
   A. इंटेसिव श्रेणी Intensive category B. Essentially Intermittentअनिवार्यत सविरामी C. Continuous अविरामी D. Excluded छूट प्राप्त

4. पी और सी सहित अविरामी श्रेणी के कर्मचारियों के लिए ---------- घंटे साप्ताहिक कार्य घंटे होते हैं.Weekly Hours of duty including P&C of continuous category of employees is------ Hrs.
   A. 60 Hrs घंटे B. 45 Hours. घंटे C. 72 Hrs घंटे D. 54 Hrs. घंटे

5. अविरामी श्रेणी के कर्मचारियों के मामले में ---------- से अधिक की ड्यूटी लांग-आन कहलाती है.In the case of Continuous category of employees more than _____ hrs of duty is Long on.
   A. 6 Hrs घंटे B. 12/14 Hours. घंटे C. 10 Hrs घंटे D. 8 Hrsघंटे

6. रेल सेवक के नियोजन को वर्गीकृत करने का प्राधिकार---------- को है. _____ is empowered to classify the employment of Railway Servant
   A. DRM मंरेप्र B. Head of the Railways (GM)महा प्रबंधक C. UPSCयूपीएससी D. Rly Board रेलवे बोर्ड

7. अनिवार्यत सविरामी कर्मियों के लिए बिस्तर में पूरी रात सहित ----------घंटों का साप्ताहिक विश्राम होता है. Weekly rest for Essentially Intermittent workers is _____ hrs including a full night in bed.
   A. 22 consecutive hrs 22 निरंतर घंटे B not less than 30 consecutive hrs. 30 निरंतर घंटों से कम नहीं C. 24 consecutive hrs निरंतर घंटे
   D. Equal to 30 consecutive hrs30 निरंतर घंटों के बराबर

8. प्रतिपूरक छुट्टी कितने दिन के अंदर ले लेनी चाहिए.
   Within how many days Compensatory Off can be sanctioned?
   A. 30 days दिन B. 60 days दिन C. 45 days दिन D. no limit कोई सीमा नहीं

9. जाँब विश्लेषण का रफ मूल्यांकन ------- घंटे के लिए किया जाता है.
   Rough Assessment Job Analysis is conducted for ----------hrs?
   A. 6 Hrs घंटे B. 24 Hours.घंटे C. 10 Hrs घंटे D. 8 Hrs घंटे.

10. Appeal against classification of employment can be made to_____-
कर्मचारियों के वर्गीकरण से संबंधित अपील -------- से की जा सकती है.
A. General Manager महाप्रबंधक B. DRM मंरेप्र C. Regional Labour Commissioner क्षेत्रीय श्रम आयुक्त D. Branch Officer.शाखा अधिकारी

11. The document which shows employee's daily hours of duty, weekly rest and break between spells of duty besides other necessary particulars is called
प्रलेख जिसमें कर्मचारियों के दैनिक कार्य घंटे, साप्ताहिक अवकाश और कार्य घंटों के बीच अंतराल और अन्य आवश्यक विवरण होता है कहलाता है
A. Duty Chart ड्यूटी चार्ट B. Roster रोस्टर C. Attendance register उपस्थिति रजिस्टर. D. Overtime Allowance Register समयोपरि भत्ता रजिस्टर

12. नियोजन के सही वर्गीकरण के लिए नौकरी विश्लेषण की कौनसी पद्धति सामान्यत अपनायी जाती है.
Which method of Job Analysis is adopted generally for correct classification of employment?
A. नौकरी का वास्तविक विश्लेषण Factual Job Analysis B.रफ मूल्यांकन Rough assessment
C. प्रमाणपत्र जारी करनाIssuance of certificate D. None कोई नहीं

13. यदि कोई कर्मचारी वैधानिक सीमा के बाद कार्य करता है तो उसे किस दर पर समयोपरि भत्ता दिया जाता है.
At what rate OTA will be given if any employee works beyond Statutory Limits?
A. वेतन का दो गुना At 2 times the pay. B.वेतन का तीन गुना At 3 times the pay.
C.वेतन का डेढ गुना At 1½ times the pay. D.वेतन का पांच गुना At 5 times the pay.

14. रेल सेवक (अनुशासनिक और अपील) नियम वर्ष -------- में लागू हुए.
The Railway servants (Discipline & Appeal) Rules came into force on _____.
A. 1968 B. 1972. C 1966 D. 1978.

15. कर्मचारी को निलंबनाधीन रखने के लिए ----------फार्म प्रयोग में लाया जाता है.
_____form is used for placing a Railway employee under suspension.
A. एसएफ-5 SF-5 B.एसएफ-11 SF-11 C. एसएफ -1 SF-1 D. एसएफ-2 SF-2

16. रेल सेवक (अनुशासनिक और अपील) नियम का नियम------- शास्ति से संबंधित है.
Rule No.------of The Railway servants (D & A) Rules deals with Penalties.
A. 6 B.7 C.5 D. 1

17. अनुशासनिक और अपील नियम,1968 के अनुसार अनिवार्य सेवानिवृत्त/सेवा से हटाना/निलंबित करना ---------- है.
Compulsory Retirement/Removal/ Dismissal is a ----------under D&A Rules, 1968.
A. शास्ति Penalty B.शास्ति नहीं है. Not a penalty C. बडी शास्ति Major penalty D. छोटी शास्ति Minor penalty

18. रेल सेवक (अनुशासनिक और अपील) नियम की नियम सं. 9 --------- शास्ति अधिरोपित करने से संबंधित है. Rule No. 9 of The Railway servants (Discipline & Appeal) Rules deals with Procedure for imposing _____ penalty.
A. बडी Major B.छोटी Minor C.Suspension निलंबन
D. Revoke of Suspension.निलंबन वापस लेना

19. यदि कर्मचारी निलंबनाधीन होता है, तब अर्ध वेतन पर छुट्टी के बराबर -------- आहरित किया जाएगा _____ equal to leave on half salary, will be drawn in case the employee is under suspension.
A. महंगाई भत्ता Dearness Allowance B. निर्वाह भत्ता Subsistence Allowance C. निलंबन भत्ता Suspension Allowance

20. अनुअनि नियम के नियम 17 के अनुसार --------- स्वरूप के किसी आदेश या अनुशासनिक कार्यवाही के अंतिम निपटारे के किसी चरण के समर्थन में अपील नहीं कर सकता है. As per rule 17 of DAR rules No appeal lies against any order of an _____ nature or of the nature of step in aid of the final disposal of a disciplinary proceedings.
A. छोटी शास्ति Minor Penalty B. बडी शास्ति Major Penalty
C. इंटरल्यूकोटरी Interlocutory D. कोई नहीं None

21. अनुशासनिक प्राधिकारी के किसी आदेश के विरुद्ध अपील अपेलेंट द्वारा उसके -------- में दी जाती है.The appeal against an order of the Disciplinary Authority can be preferred by the Appellant in his _____
A. स्वयं के नाम पर Own name. B. अनुशासनिक प्राधिकारी Disciplinary Authority.
C. अपीलीय प्राधिकारी Appellate Authority D. महाप्रबंधक GM

22. ---------- के अलावा किसी उच्चतर प्राधिकारी को अपील की जा सकती है.The appeal shall be preferred to any higher authority other than the ----------.
A. अनुशासनिक प्राधिकारी Disciplinary Authority. B. मंडल रेल प्रबंधक DRM
C. अपीलीय प्राधिकारी Appellate Authority D. महाप्रबंधक GM

23. रेल सेवक (अनुअनि) नियम का नियम 25 ----- से संबंधित है. Rule 25 of the RS (D&A) Rules deal with _____.
A. समीक्षा Review. B. अपीलAppeal C. पुनरीक्षा Revision. D. गवाही Witness

24. रेल सेवक (अनुअनि) नियम के नियम 25 ए ---- से संबंधित है. Rule 25. A of the RS (D&A) Rules deal with _____.
A. समीक्षाReview. B. अपील Appeal C. स्पष्टीकरण Explanation. D. गवाही Witness

25. आरोपित कर्मचारी की मुत्यु के बाद अनुशासनिक कार्रवाई को ---------- किया जाना चाहिए.The disciplinary proceedings should be ----------on the death of the charged employee.
A. तुरंत बंद Closed immediately B.जारी रखा Continued C. अस्थाई रुप से बंद Temporarily closed D. None इनमें से कोई नहीं

26. जांच-पडताल अधिकारी को नामित करने के लिए ---------- फार्म प्रक्त किया जाता है. _____ form is used for nomination of Inquiry Officer.

A. एसएफ—5 SF-5 B. एसएफ—7 SF-7 C. एसएफ--1 SF-1 D. एसएफ---2 SF-2

27. यदि आरोप अप्राधिकृत रुप से अनुपस्थित रहने का लगा हो तो -------- एक साक्ष्य हो सकता है. If the charge is unauthorized absence, _____ can be one of the witnesses.
A. उपस्थिति रजिस्टरAttendance Register B. चिकित्सा प्रमाणपत्र Medical Certificate
C. सहकर्मी Co- employee. D. कोई नहींNone

28. अपील को ---------- दिन के अंदर दी जानी चाहिए. Appeal shall be entertained unless preferred within _____ days.
A. 100 B. 10 C. 30 D. 45

29. रेल कर्मचारी जो ------- वर्ष की सेवा पूरी करते हैं उन्हें -------- की अनुमति है.
Post Retirement Complimentary Pass are admissible to Railway Servant retired after putting in __ years of service.
A.20 B. 12 C 15 D 16

30. What is Pass as per Railway Servants Pass Rules 1986.?
(A) Pass is a Privilege. (B) To travel in Railway
(C) An authority given by Railway to a Railway employee or to a Person authorizing him to travel in a train gratuitously. (D) None of these.

31.Family means.
(A)Wife, Husband, Son/Step sons under the age of 21 years and wholly dependent. Bonafide student of any recognized University. Unmarred daughter of any age whether earning or not, dependent widow daughter. Railway Doctor's certified invalid son daughter of any age.
(B)Wife, Husband, son/Step son/Son-in-law/mother-in-law/daughter of any age.
(C)Husband, Wife/Widow mother/son/Step son of any age/Daughter of any age.
(D)Husband/Wife/Sons/Daughters of any age/Mother-in-law, if father is not alive.

32.How many sets of P.T.O. are issued to the Railway employees?
(A)6 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(B)4 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(C)3 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
(D)6 sets for Gazetted and 4 sets for Non-Gazetted.

33.How many sets of School Pass issued to Railway employee?
(A) 6 sets or 3 half sets per year. (B) 4 sets or 6 half sets per year. (C)3 sets or 6 half sets. per year. (D) 5 sets per year.

34.Oflate validity for a Privilege Pass/PTO is ?
(a) 3 months (b) 4 months (c) 2 months (d) 5 months

35.Attendants of Pass Holder is:-
(A)Part time servant. (B)Servant (C)Full time paid servant. (D)Any person.

36.Irregularity for use of Passes may be condoned by

(A) CPO (B) GM (C) CME (D) COM

37. The colour of the First Class A Pass is _____ in colour.

A. White B. Pink C. Green. D. Yellow.

38. When dependents are included in a Pass/PTO number persons entitled to be include in Pass/ PTO shall be.
A. All Family members + 2 dependents. B. 5 member's only C. 6 members only. D. Any number of Family members + 3dependents

39. How many sets of PTOs is/ are a license Holder coolie is entitled in a calendar year?
A.One (IInd/Sleeper) B. Two(IInd/Sleeper) C. Three(IInd/Sleeper) D. Nil

40. Which rule of Railway Service (Conduct) Rules 1966 states that every railway servant shall at all times" Maintain absolute integrity,Maintain devotion to duty and Do nothing which is unbecoming of a railway servant

A. Rule 3 (i) (ii) and (iii) B. Rule 3-B C. Rule 3-C D. Rule 3-D

41. Prohibition of sexual harassment of working women defined in ____of Railway servants(Conduct) Rules, 1966.

B. Rule 3-A B. Rule 3-B C. Rule 3-C D. Rule 3-D

42. Demonstration and Strikes defined in _____of Railway servants(Conduct) Rules

**A.** Rule 7 B. Rule 4 C. Rule 5 D. Rule 6

43. As per Railway servants(Conduct) Rules, 1966 a Railway servant holding Group C post can accept gift worth Rs ___ on occassions such as weddings anniversaries funerals or other religious functions:
A.Rs 25000/- B. Rs 7500/- B. Rs 15000/- C. Rs 500/-

44. Rule 13-A of Railway servants(Conduct) Rules deals with ___
Subscription B. Dowry C. indebtedness D. Gifts

45. Rule___of Railway servants(Conduct) Rules, 1966 speaks about a Railway servant subletting of Railway accommodation
A.15(A) B. 15(B) C.15(C) D.15(D)

46. Rule____ of Railway servants (Conduct) Rules, 1966 speaks about a Railway servant possessing movable, immovable and valuable property
A.15 B.16 C.17 D.18

47. An employee can be taken up for bringing outside political influence in service matters in terms of _____ of Rly. Service conduct Rules.

**A.** Rule 17 B. Rule 14 C. Rule 20 D. Rule 6

48. Rule____ of Railway servants(Conduct) Rules, speaks about Consumption of intoxicating Drinks & Drugs

A. Rule 17  B. Rule 14  C. Rule 20  D. Rule 22.

49. In case of loss of IInd class Privilege Pass ------ amount has to be levied as fine.

A.Rs. 5  B.Rs.10  C.Rs. 15  D. Rs. 25

50. When a Railway servant has availed all passes due to him in a current calendar year, _____ number of set of passes/PTO may be issued for journeys commencing in the next year only by debiting to the next year's pass account.

A. One  B. Two  C. Three.  D Four.

**OBJECTIVE : QUESTIONS**

1. साधारण नियम ------द्वारा बनाए जाते है.

[A] भारत सरकार [B] प्राधिकृत अधिकारी

[C] महाप्रबंधक [D] मुख्य परिचालन प्रबंधक

**1.** General Rules are framed by

[A] Government of India [B] Authorised Officer

[C] General Manager [D] COM

2. अनुमोदित विशेष अनुदेश----------द्वारा जारी या अनुमोदित किया जाता है.

[A] मुख्य परिचालन प्रबंधक [B] प्राधिकृत अधिकारी [C]सी आर एस [D] रेलवे बोर्ड

**2.** Approved special instructions are issued or approved by

[A] COM [B] Authorised Officer [C] CRS [D] Railway Board

3. दक्षिण मध्य रेलवे का प्राधिकृत अधिकारी ----------है.

[A] प्रमुख मुख्य परिचालन प्रबंधक [B]महाप्रबंधक

[C] मुख्य यातायात प्रबंधक [D] मुख्य संरक्षा अधिकारी

**3.** The authorized officer of South Central railway is

[A] PCOM [B] GM [C] CTM [D] CSO

4. विशेष अनुदेश----------द्वारा जारी किया जाता है.

[A] मुख्य यातायात प्रबंधक [B] मुख्य संरक्षा अधिकारी

[C] प्राधिकृत अधिकारी [D] रेलवे बोर्ड

**4.** Special instructions are issued by

[A] CTM [B] CSO [C] Authorised Officer [D] Railway Board

5. डबल लाइन पर बहुसंकेती सिगनल व्यवस्था से युक्त क्लास 'बी' स्टेशन पर स्टेशन सेक्शन ------ --के बीच है.

[A] सबसे बाहरी सम्मुख पाइंट से एलएसएस तक [B] बीएसएलबी से एलएसएस तक

[C] A या B [D] उपर्युक्त में से कोई नहीं

**5.** On Double line class 'B' station Multiple Aspect Signalling, station section lies between

(A) Outermost facing points to LSS (B) BSLB to LSS

(C) Either A & B (D) none of above

6. सिंगल लाइन पर बहुसंकेती सिगनल व्यवस्था से युक्त क्लास 'बी' स्टेशन पर स्टेशन सेक्शन ------ --के बीच है.

[A] अग्रिम प्रस्थान [B] एसएलबी

[C] सबसे बाहरी पाइंट [D] उपर्युक्त में से कोई एक

6. On single line class 'B' station with Multiple Aspect Signalling , the Station section lies between the

(A) Advance Starters (B) S L Bs

C) Outer most points (D) any one of the above

7. ------- का अभिप्राय रेलवे के किसी भाग पर गाड़ियों के संचालन के लिए तत्समय अपनाई गयी पद्धति से है.

[A] नियंत्रण पद्धति [B] यातायात का निर्देश

[C] कार्यचालन पद्धति [D] इनमें से कोई नहीं

7. The system adopted for the time being for the working of trains on any portion of a railway is known as

[A] system of controlling [B] direction of traffic

[C] System of working [D] none of these

8. ब्लाक स्टेशनों को --- के रुप में उप-वर्गीकृत किया गया है.

[A] A, B, और C [B] A, B, C और D [C] A, B, C, और विशेष श्रेणी [D] श्रेणी D

8. Block stations are sub-classified

(A) A, B & C (B) A, B, C & D (C) A, B, C & Special Class (D) Class D

9. कोई भी रेल सेवक गाड़ी विभाजन देखता हो, तो ----------सिगनल प्रदर्शित नहीं करेगा.

[A] हथ रोक [B] सतर्कता से आगे बढ़ें [C] आगे बढ़ें [D] गाड़ी विभाजन

**9.** The signal that should not be exhibited, if train parting is observed by any Railway Servant, is

[A] stop hand [B] proceed with caution [C] proceed [D] Train parting

10. जब भारी तूफान हो , जिससे यात्री गाड़ियों की संरक्षा के लिए खतरा हो तो स्टेशन मास्टर

[A] गाड़ी को डीटेन करेगा [B] लाइन क्लियर प्रदान करने से मना करेगा

[C] दोनों A & B [D] इनमें से कोई नहीं

**10.** When there is a severe storm endangering the safety of passengers trains, SM shall

[A] detain the train [B] refuse to grant line clear

[C] Both A & B [D] none of these

11. डिस्टैट सिगनल का सामान्य संकेत ----------हैं.

[A] सतर्कता [B] सतर्कता से आगे बढें [C] रुकें [D] आगे बढ़ें

**11.** The normal aspect of Distant signal is

[A] caution [B] proceed with Caution [C] stop [D] proceed

12. जहां कहीं इन्नर डिस्टैंट लगाया जाता है, डिस्टैंट सिगनल केवल----संकेत दिखाने में समर्थ होता है.

[ ] [A] सावधान और आगे बढ़ो [B] सतर्कता और सावधान

[C] रुकें और आगे बढ़ें [D] रुकें और सतर्कता

**12.** Where ever an Inner Distant is provided, the aspects that Distant Signal is capable of displaying are

[ ] (A) attention & proceed (B) caution & attention

(C) stop & proceed (D) stop & caution

13. दूरस्थ सिगनल को रोक सिगनल के पीछे ---- दूरी में लगाया जाता है.

[ ] [A] 1200 मी [B] 1500 मी [C] 1000 मी [D] 400 मी

**13.** In rear of the stop signal , Distant signal is provided at a distance of

[ ] [A] 1200M [B] 1500M [C] 1000M [D] 400M

14. जहां कहीं दो डिस्टैंट सिगनल लगाया जाता है, इस बोर्ड को हटाया जाता है.
[ ] [A] बीएसएलबी [B] सिगनल चेतावनी बोर्ड [C] एसएलबी [D] सतर्कता संकेतक

**14.** Wherever two Distant signals are provided, the board that is eliminated is
[ ] (A) BSLB (B) signal warning board (C) SLB (D) caution indicator

15. जब रंगीन बत्ती डिस्टैंट सिगनल को एल एस एस के साथ जोड़ा जाता है तो इस मार्कर की आवश्यकता नहीं है
[ ][A] "A" मार्कर [B] " C " मार्कर [C] "G" मार्कर [D] "P" मार्कर

**15.** When a colour light Distant is combined with L S S , this marker is not required
[ ] [A]'A' marker [B]'C' marker [C]'G' marker [D] 'P' marker

16. बुलावा सिगनल को ----- के सिवाय कोई भी रोक सिगनल के नीचे लगाया जा सकता है.
[ ] [A]एफएसएस [B] एलएसएस [C] स्टार्टर [D] होम

**16.** Calling On signal may be provided below any stop signal, except
[ ] [A] FSS [B] LSS [C] starter [D] home

17. बुलावा सिगनल ------- के दौरान आफ में नहीं किया जा सकता है.
[ ] [A] सम्मुख छोर पाइंट खराब होने [B] ट्रेलिंग पाइंट खराब होने
[C] धुरा काउंटर खराब होने [D] निकट सिगनल खराब होने

**17.** Calling ON signal cannot be taken "OFF" during
[ ] [A] Facing end point failure [B] Trailing point failure
[C] Axle Counter failure [D] home signal failure

18. बुलावा सिगनल का उपयोग ---- अवसरों पर किया जाता है
[ ] [A] अवरुद्ध लाइन पर गाड़ी का प्रवेश [B] जब ऊपरी सिगनल खराब हो
[C] दोनों A & B [D] उपर्युक्त में से कोई नहीं

**18.** The occasions when Calling ON signal can be used are
[ ] (A) receiving a train on obstructed line (B) when signal above is defective
(C) both A & B (D) none of the above

19. बुलावा सिगनल को आफ में लेने के लिए गाड़ी --- पर रुकना होगा
[ ][A] धुरा काउंटर [B] प्रा जोन [C] कालिंग आन जोन [D] डिस्टैंट सिगनल

**19.** To take “OFF” calling ON signal, the train must come to a stop at
[ ](A) Axle counter (B) free zone (C) calling on zone (D) distant signal

20. शंट सिगनल को --- के सिवाय कोई भी रोक सिगनल के नीचे लगाया जा सकता है.

[ ] [A] एल एस एस [B] एफ एस एस [C] स्टार्टर [D] उपर्युक्त में से कोई नहीं

**20.** Shunt signal may be provided below any stop signal , except
[ ] [A] LSS [B] FSS [C] Starter [D] none of above

21. शंट सिगनल -----का पता लगाता है.
[ ][A] होम सिगनल [B] एल एस एस [C] मार्ग पर पाइंट
[D]कोई पाइंट नहीं

**21.** Shunt signal detects
[ ] (A) Home signal (B) LSS (C) points over the route (D) no points

22. खराब स्वतंत्र शंट सिगनल को 'आन' पर पास करने के मामले में प्राधिकार ----------
--है.
[ ][A]टी.369 (1) [B] टी.806 [C] PLCT [D] टी./369 (3b)+PHS

**22.** The authority to pass defective Independent shunt signal at “ON”, is
[ ] (A) T / 369 (1) (B) T / 806 (C) PLCT (D) T / 369 (3b)+PHS

23. मार्ग संकेतकों को -----के रुप में माना जाता है.
[ ][A] अनुमत सिगनल [B] रोक सिगनल [C] सहायक सिगनल
[D]डुप्लिकेट सिगनल

**23.** Route indicators are treated as
[ ] (A) permissive signals (B) stop signals

(C) subsidiary signals (D) Duplicate signals

24. जब कोई नया सिगनल लगाया जाता है या स्थान बदला जाता है, सतर्कता आदेश को ---- अवधि के लिए दिया जाएगा

[ ] [A] 15दिन [B] 10दिन [C]12 दिन [D]16दिन

**24.** When a signal is newly erected or shifted, caution order shall be given for a period of

[ ] (A) 15 days (B) 10 days (C)12 days (D)16 days

25. सिगनल साइटिंग समिति ------में एकबार फुटप्लेट निरीक्षण करती है

[ ] [A] एक माह [B] दो माह [C] तीन माह [D] छः माह

**25.** Signal sighting committee will go on footplate inspection once in

[ ] (A) a month (B) two months (C) three months (D) six months

26. एमएएस सहित बी श्रेणी स्टेशन पर सिगनलों का न्यूनतम उपकरण--------है

[ ] [A] दूरस्थ और होम [B] दूरस्थ, होम और स्टार्टर [C] चेतावनी, होम और स्टार्टर [D] आउटर, होम और स्टार्टर

**26.** The minimum equipment of signals at a class "B" station with M A S are

[ ] (A) Distant & Home (B) Distant, Home & starter (C) Warner, Home & Starter (D) Outer, Home & Starter

27. एम ए एस सहित कलास बी स्टेशन पर जहां बीएसएलबी उपलब्ध है वहां

[ ] [A] सबसे बाहरी पाइंट ट्रेलिंग है. [B] कोई पाइंट नहीं [C] या तो A या B [D]उपर्युक्त में से कोई नहीं

**27.** BSLB is provided at class 'B' station with multiple aspect signals where

[ ] (A) outermost points are trailing point ( B) no points (C) either A or B ( D)none of above

28. होम सिगनल से बीएसएलबी तक दूरी --- से कम न हो

[ ] [A] 120 मीटर [B] 180 मीटर [C] 300 मीटर [D] 400 मीटर

**28.** The distance from Home signal to B S L B shall not be less than

[ ] [A] 120 M [B] 180M [C] 300M [D] 400 M

29. होम सिगनल लीवर / स्विच को -------के गुजरने के बाद सामान्य किया जाएगा.

[ ] [A] इंजन [B] पूरी गाड़ी [C] प्रथम वाहन [D] इनमें से कोई नहीं

**29.** Home signal lever / switch will be normalized after passage of the

[ ] (A) engine (B) whole train (C) first vehicle (D) none of these

30. सड़क उपयोक्ताओं की शिकायतों से बचने के लिए, गाड़ी के आगमन से पहले, फाटक को _____मिनट के लिए बंद करना सुनिश्चित करने के लिए प्रवेश रोक सिगनल को विलंबित किया जा सकता है.

[ ] [A] 20 मिनट [B] 10 मिनट [C] 15 मिनट [D] 30 मिनट

**30.** Before the arrival of the train, to avoid complaints from road users, taking off the approach Stop signals can be delayed to ensure that gate is closed only for

[ ] [A] 20 minutes [B] 10 minutes [C] 15 minutes [D] 30 minutes

31. किसी गाड़ी के लिए 'आफ' किए गए सिगनल को केवल ----जैसी आपात स्थिति में 'आन' स्थिति में वापस लाया जाए.

[ ][A]सेक्शन नियंत्रक के अनुदेशों का पालन करने [B]स्टेशन मास्टर के अनुदेशों का पालन करने [C] टिकट जारी करने [D] दुर्घटना निवारित करने

**31.** A signal taken “OFF” for an approaching train can be put to “ON” position in emergency only to

[ ] (A) obey SCOR instructions (B) obey Station Master`s instructions

(C) issue tickets ( D) avert an accident

32. प्रस्थान करने वाली गाड़ी के लिए स्टार्टर/अडवांस्ड स्टार्टर सिगनल को वापस लाने के बाद, जब तक लोको पायलट को संचार के सुरक्षित साधन या लिखित मेमों द्वारा सूचित नही किया जाता है तब तक स्टेशन मास्टर --------- नही करेगा.

[ ][A] दूसरी गाडी के लिए एलसी प्राप्त [B] मार्ग के पाइंटों के नहीं बदलेगा [C] दूसरी गाडी के लिए एलसी नहीं देगा [D]उपर्युक्त में से कोई नहीं

**32.** After putting back starter/advanced starter for a departing train, till LP is advised through secured means of communication or through a written memo, SM shall not

[ ] (A) obtain LC for another train (B) alter the points on the route
(C) grant LC for another train (D) none of above

33. आटोमेटिक सिगनल के सिवाए फिकस्ड सिगनल अपनी सामान्य स्थिति में हमेशा ----------
---संकेत दिखाएगा.

[ ] [A] रोक [B] सतर्कता [C] आगे बढ़ो [D] सबसे प्रतिबंधित पहलु

**33.** The normal aspect of a fixed signal ,except Automatic Signals is

[ ] [A] stop [B] caution [C] proceed [D] most restrictive

34. लोको पायलट, स्टेशन से प्रस्थान को नियंत्रित करने वाले सिगनलों के "आफ" होने पर भी अपनी गाड़ियों को उन स्टेशनों पर रोकेंगे, जहां ---------में उनका रुकना निर्धारित हो.

[ ] [A] वीजी [B] सीटीआर [C] डब्ल्यूटीटी [D] एसओबी

**34.** Even though departure signals are taken off, LP shall stop at stations where stoppages are scheduled in the

[ ] [A] VG [B] CTR [C] WTT [D] SOB

35. सिंगल लाइन पर रुकने वाली गाड़ी के आने के तुरंत बाद --------- के कांटों को व्यस्त लाइन के विरुद्ध सेट किया जाएगा.

[ ] [A] पीछे [B] आगे [C] दोनों सिरे [D]उपर्युक्त में से कोई नहीं

**35.** The points on single line, that must be set against the blocked line, immediately after the arrival of a train at the station

[ ] (A) rear (B) front (C) either end (D) none of above

36. डबल लाइन पर, गाड़ी स्टेशन पर आने के बाद तुंत इसके पाइंट, इसके विरुद्ध बदलना चाहिए

[ ] [A] पीछे [B] आगे [C] दोनों सिरे [D] उपर्युक्त में से कोई नहीं

**36.** The points on double line, that must be set against the blocked line, immediately after the arrival of a train at the station

[ ] (A) rear (B) front (C) either end (D) none of above

37. यदि सभी लाइनें यात्री गाड़ियों से अवरुद्ध हों और जब किसी गाड़ी के लिए लाइन किलयर दिया गया हो तो कांटों को ----------की ओर सेट किया जाए.

[ ][A] मुख्य लाइन और इंजन सम्मुख [B] लूप लाइन और इंजन सम्मुख
[C] मुख्य लाइन और एसएलआर सम्मुख [D] लूप लाइन और एसएलआर सम्मुख

**37.** When all the lines at a station are blocked by passenger carrying trains, and still line clear is granted for a train, the points shall be set for the line occupied by

[ ] (A) main line & engine facing (B) loop line & engine facing

(C) main line & SLR facing ( D) loop line & SLR facing

38. पाइंट, प्रत्येक मोटर प्रचालित कांटों के प्रचालन के बाद स्टेशन मास्टर द्वारा यह देखने के लिए कि पाइंट कार्यचालन स्थिति में है, इस संकेत की जांच करेगा.

[ ][A] "N" [B] "R" [C] या तो A या B [D] उपर्युक्त में से कोई नहीं

**38.** The indications that must be checked by the SM to see that the points are in working condition after the operation of every motor operated point, are

[ ] (A) “N” (B) “R” (C) either A or B (D) none of the above

39. सिंगल लाइन पर सिगनल ओवरलैप ----से गिना जाता है.

[ ] [A]सम्मुख पाइंट [B] ट्रेलिंग पाइंट [C] सम्मुख छोर पाइंट [D] होम सिगनल

**39.** On Single Line ,the Signal over lap shall be reckoned from

[ ] (A) facing points (B) trailing points (C) facing end points (D) Home signal

40. बहुसंकेती सिगनल व्यवस्था में सिगनल ओवरलैप ----------मीटर से कम नहीं होना चाहिए

[ ] [A] 100 मीटर[B] 110 मीटर [C] 120 मीटर [D] 180 मीटर

**40.** On Single line in MAS, the Signal Over Lap shall not be less than

[ ] (A) 100m (B) 110m (C) 120m (D) 180m

41. शंटिंग प्रयोजन के लिए ----------सिगनलों का उपयोग नहीं किया जाएगा.

[ ] [A] आउटर [B] होम [C] एलएसएस [D] उपर्युक्त सभी

**41.** The signals that are prohibited to be used for shunting purposes is/are

[ ] (A) outer (B) Home (C) LSS (D) All the above

42. कैंच साइडिंग लगाना अनिवार्य है जहां स्टेशन की तरफ ढाल --- से अधिक हो

[ ] [A] 80 में 1 [B] 100 में 1 [C] 260 में 1 [D] 400 में 1

**42.** The provision of catch siding is compulsory , where the falling gradient towards station is steeper than

[ ] [A] 1 in 80 [B] 1 in 100 [C] 1 in 260 [D] 1 in 400

43. स्लिप साइडिंग लगाना अनिवार्य है जहां ब्लाक सेक्शन की तरफ ढाल --- से अधिक हो
[ ] [A] 80 में 1 [B] 100 में 1 [C] 260 में 1 [D] 400 में 1

**43.** The provision of slip siding is compulsory , where the falling gradient towards block section is steeper than
[ ] [A] 1 in 80 [B] 1 in 100 [C] 1 in 260 [D] 1 in 400

44. सभी कांटों को सामान्यतया ----लाइन के लिए सेट किया जाए.
[ ][A] लूप लाइन [B] टर्न आउट [C] सीधी लाइन [D] कोई भी लाइन

**44.** All points shall normally be set for the
[ ] [A] loop line [B] turn out [C] straight line [D] any line

45. जब कभी सिगनल निरीक्षक / ईएसएम द्वारा पाइंट / सिगनल /ब्लाक उपकरण को वियोजित किया जाता है तो स्टेशन मास्टर सुनिश्चित करेगा कि सिगनल निरीक्षक / ईएसएम द्वारा ----------जारी किया जाता है.
[ ] [A] पुन:संयोजन सूचना [B] वियोजन सूचना [C] खराब मेमो [D]इनमें से कोई नहीं

**45.** The notice that S M shall ensure , whenever points / signals / Block Instrument is disconnected by SI / ESM is
[ ] A) reconnection notice B) disconnection notice
C) failure memo D) none of these

46. जब कभी पाइंट / सिगनल / ब्लाक उपकरण को वियोजित किया जाता है तो स्टेशन मास्टर ---------के आदान-प्रदान के अंतर्गत केबिनमैन /केबिन एएसएम / केबिन मास्टर को ------का आदान-प्रदान करेगा.
[ ] [A] संदेश [B] प्राइवेट नंबर [C] मौखिक आदेश [D]सूचना आवश्यक नहीं है

**46.** Whenever the points / signals / block instruments are disconnected , S M shall inform Cabin Man / C ASM / Cabin master under exchange of
[ ] [A] message [B] PN [C] verbal order [D] intimation not necessary

47. वियोजित सिगनल गेयर को फिर से जोडने से पहले सिगनल निरीक्षक / ईएसएम --- के साथ संयुक्त जांच करेंगे.

[ ] [A] यातायात निरीक्षक [B] सिवदू खलासी [C] पाइंट्समैन [D] ड्यूटी स्टेशन मास्टर

**47.** Before reconnecting the Signal gear that is disconnected , SI/ESM shall test jointly with

[ ] [A] TI [B] S&T khalasi [C] PointsMan [D] SM on duty

48. वियोजन के समय से संयोजन तक गाड़ियों को ----------द्वारा प्रवेश कराया जाए.

[ ][A] हथ सिगनल [B] स्थावर सिगनल [C] पायलटिंग [D] उपर्युक्त में से कोई नहीं

**48.** From the time of disconnection to reconnection, the trains shall be admitted by

[ ] [A] Hand signals [B] fixed signals [C] piloting [D] none of above

49. ब्लॉक उपकरण के लिए वियोजन नोटिस स्वीकार करते समय, स्टेशन मास्टर नोटिस पर-------पृष्ठाकित करेगा.

[ ] [A] ब्लॉक सेक्शन व्यस्थ है [B] ब्लॉक सेक्शन मुक्त है
[C] ब्लॉक उपकरण खराब है [D] उपर्युक्त में से कोई नहीं.

**49.** While accepting Disconnection Notice for block instrument the SM shall endorse on the Notice that

[ ] [A] Block Section is occupied [B] block section is free
[C] Block instruments failed [D] None of the above

50. जब कभी सिगनल निरीक्षक सिगनलों की जांच करता है, तो इसकी टिप्पणी ------में लिखी जाए.

[ ][A] टी एस आर [B] स्टेशन डायरी [C]पी एन आदान-प्रदान पुस्तक [D] सिवदू खराब रजिस्टर

**50.** Whenever signal Inspector is testing the signal, the remarks shall be recorded in

[ ][A] TSR [B] Station Diary [C] PN exchange book [D] S & T failure register

51. किसी व्यकित द्वारा अपने शरीर के सामने सम-स्तर पर दाएंं से बाएंं तेजी से सफेद बत्ती हिलाने का संकेत -------है.

[ ] [A]गाड़ी विभाजन [B] दर्शाने वाले व्यक्ति से दूर जाए [C]आगे बढ़ो [D] एकदम रुक जाओ

**51.** Violently waving a white light horizontally across the body of a person indicates
[ ] [A]train parting [B] move away from the person signaling
[C] proceed [D] stop dead

52. पटाखों को ---- भी कहा जाता है
[ ] [A] कोहरा सिगनल [B] फ्लेर सिगनल [C]प्रदीप्त सिगनल [D]इनमें से कोई नहीं

**52.** Detonators are also known as
[ ] [A] fog signals [B] flare signals [C] illuminating signal [D]none of these

53. प्रत्येक कोहरा सिगनलमैन को ----------पटाखे दिए जाते हैं.
[ ] [A] 8 [B] 10 [C] 20 [D] 24

**53.** The number of detonators that are given to each fog signalman is
[ ] [A] 8 [B] 10 [C] 20 [D] 24

54. एफएसएस से एफएसपी --- किमी दूरी पर स्थित होगा
[ ] [A] 180मी [B] 120मी [C] 400मी [D] 270मी

**54.** From FSS the FSP is located at a distance of
[ ] (A) 180m (B) 120m (C) 400m (D) 270m

55. नामित कोहरा सिगनलमैन ----------विभाग से दो होते हैं.
[ ] [A] इंजीनियरी और सिवदू [B] इंजीनियरी और परिचालन
[C] यांत्रिक और परिचालन [D] केवल इंजीनियरी से

**55.** Nominated fog signalmen are two from each department
[ ] (A) Engineering and S&T (B) Engineering and Operating
(C) Mechanical and Operating (D) only from Engineering

56. कोहरा सिगनलमैन का आश्वासन ----------रजिस्टर में लिया जाएगा.
[ ] [A] टीएसआर [B] स्टेशन डिटनेटर रजिस्टर
[C] स्टेशन डायरी [D]स्टेशन संचालन नियमावली आश्वासन

56. The Register in which fog signalmen's assurance will be taken is
[ ] A) TSR B) Station Detonator Register

C) Station diary D) SWR assurance

57. इंजन द्वारा खाली वैगन को ---- गति से ले जाने द्वारा पटाखे की जांच किया जा सकता है.
[ ][A] 11 to 13किमीप्रघं [B] 15 to 20 किमीप्रघं [C] 8 to 11किमीप्रघं
[D] 12 to 15 किमीप्रघं

57. Testing of detonator shall be done by moving an empty wagon hauled by a locomotive at a speed of
[ ] A) 11 to 13kmph B) 15 to 20 kmph C) 8 to 11kmph
D) 12 to 15 kmph

58. स्टेशन के स्टाक में रखे जाने वाले पटाखों की संख्या ----------द्वारा निर्धारित की जाती है.
[ ] [A] मंडल रेल प्रबंधक [B] मंडल परिचालन प्रबंधक
[C] मुख्य परिचालन प्रबंधक [D] मंडल इंजीनियर

58. No. of detonators which shall be kept in stock at a station, is prescribed by
[ ] [A] DRM [B] DOM [C] COM [D] DEN

59. पटाखों का उपयोग करने वाले कर्मचारियों के ज्ञान की जानकारी का परीक्षण -----में एक बार किया जाए.
[ ] [A] एक माह [B] दो माह [C] तीन माह [D] छः माह

59. The knowledge of staff that are required to use detonators shall be tested once in
[ ] [A] a month [B] two months [C] three months [D] six months

60. यातायात निरीक्षक/स्टेशन मास्टर/रेलपथ निरीक्षक --- में एकबार पटाखों की जांच करेंगे.
[ ] [A] 3 माह [B] 6 माह [C] 8 माह [D] 12 माह

60. TI/SM/PWI shall test detonators once in
[ ] [A] 3 months [B] 6 months [C] 8 months
[D] 12 months

61. वर्ष 2010 से पहले बने हुए पटाखों (डेटोनेटर) का सामान्य जीवन काल ---------- है.
[ ] [A] 3 वर्ष [B] 5 वर्ष [C] 7वर्ष [D] कोई सीमा नहीं

61. Normal life of a detonator manufactured before 2010 is
[ ] [A] 3 years [B] 5 years [C] 7 years [D] No limit

62. वर्ष 2010 में और उसके बाद बने हुए पटाखों (डेटोनेटर) का सामान्य जीवन काल---------
-----है.

[ ] [A] 3 वर्ष [B] 5 वर्ष [C] 7वर्ष [D] कोई सीमा नहीं

**62.** Normal life of a detonator manufactured during 2010 and thereafter is

[ ] [A] 3 years [B] 5 years [C] 7 years [D] No limit

63. पटाखों को सफलतापूर्वक परीक्षण करने के बाद उसकी कार्यकाल अवधि बढ़ाने का अधिकतम संख्या है

[ ] [A] एक [B] दो [C] तीन [D] कोई भी संख्या

**63.** The maximum number of extensions after successful testing of a detonator is

[ ] [A] one [B] two [C] three [D] any number

64. किसी अवरोध के बारे में आने वाली गाड़ी को चेतावनी देने के लिए उपयोग में लिया जाने वाला सिगनल दिन में ------ होगा.

[ ] [A]टिमटिमाती अंबर बत्ती [B] लाल झंडी
[C] लाल हथ सिगनल बत्ती [D] टिमटिमाती लाल हथ सिगनल बत्ती

**64.** The signals used to warn the incoming train, of an obstruction during day shall be a

[ ] (A) flashing Amber light (B) red flag
(C) Red light of H/S lamp (D) red flashing H/S Lamp

65. जबकभी सिगनल/पाइंट/ब्लाक उपकरण खराब है, स्टेशन मास्टर ----- में दर्ज करेगा.

[ ] [A]सिवदू खराब सिगनल रजिस्टर [B]प्राइवेट नंबर आदान प्रदान रजिस्टर
[C]रिले रुम चाबी रजिस्टर [D]क्रैंक हैंडल रजिस्टर

**65.** Whenever a signal/point/block instrument is defective, SM shall make an entry in

[ ] (A) S&T failure register (B) PN exchange register
(C) relay room key register (D) crank handle register

66. जब कोई पाइंट सिगनल द्वारा डिटेक्ट होता हो, खराब हो जाए तो उन पाइंटों को ----के रुप में माना जाए.

[ ][A]अंतर्पाशित [B] गैर अंतर्पाशित [C] कार्य चालन की स्थिति D] उपर्युक्त में से काई नहीं

**66.** Whenever a signal which is detecting a points becomes defective, these points shall be treated as

[ ] ( A) interlocked (B) non interlocked (C) working ( D) none of above

67. पूरी तरह बिजली चले जाने के दौरान कोरे सिगनल को ----------सिगनल माना जाए.

[ ] [A] खराब सिगनल [B] आफ थिति में सिगनल
[C] कोई सिगनल नहीं [D] उपर्युक्त में से काई नहीं

**67.** A blank signal under complete power off situation is to be treated as

[ ] (A) defective signal (B) signal at off (C) no signal (D) none of above

68. खराब आगमन सिगनल की पूर्व चेतावनी आवश्यक नहीं है, जब------ उपलब्ध हो..

[ ][A] बुलावा सिगनल [B] अग्रिम प्रस्थान [C] पृथक्करण [D] उपर्युक्त में से कोई नहीं

**68.** Pre-warning about a defective reception signal is not required when there is a / an

[ ] (A) calling on signal (B) adv. Starter (C) Isolation ( D) none of above

69. जब होम सिगनल खराब हो और पूर्व चेतावनी दी गई है, तो लोको पायलट ऐसा सिगनल को पार कर सकता है जब

[ ] [A]खराब सिगनल के नीचे PHS [B] प्रथम सम्मुख पाइंट पर PHS
[C] टी.369(3b)+PHS [D] SPT के माध्यम से PN

**69.** When pre warning is given about a defective Home signal, the LP may pass such signal on receipt of

[ ] [A] PHS at the foot of the defective signal [B] PHS at the first facing points [C] T.369(3b)+PHS
[D] PN through SPT

70. **श्रेणी 'ए' स्टेशन पर लाइल क्लियर देने से पहले लाइन (एफएसएस के आगे) तक क्लियर होना चाहिए**

[ ][A] **स्टार्टर** [B] **एनएलटी** 400 **मीटर** [C] **या तो** A **या** B [D] **उपर्युक्त में से कोई नहीं**

**70.** Before granting line clear, at a class `A' station, Line shall be clear up to (beyond FSS)

[ ] A) Starter B) N L T 400 meters
C) either A or B D) none of above

71. खराब प्रवेश सिगनल को पार करने की अग्रिम प्राधिकार
[ ] [A] टी.369(3b) [B] टी.369(1) [C] टी/सी 1425 [D] टी/409

**71.** Advance authority to pass defective Reception signal is
[ ] [A] T.369(3b) [B] T.369(1) [C] T/C.1425 [D] T.409

72. जब गाड़ी को बुलावा सिगनल पर लेते है, पोदनूर पैनल में रद्द करने के लिए -- का समय लगेगा.
[ ] [A] 120 सेकेन [B] 180 सेकेन [C] 240सेकेन [D] 90 सेकेन

**72.** When a train is received on Calling ON signal , cancellation in Podanur panel takes
[ ] [A] 120 seconds [B] 180 seconds [C] 240 seconds [D] 90 seconds

73. धुरा काउंटर को तभी पुन: सेट किया जाएगा, जब मानिटर किया गया हिस्सा ----------हो.
[ ] [A] रिक्त [B] व्यस्त [C]अवरुद्ध [D] उपर्युक्त में से कोई नहीं

**73.** The axle counter shall be reset only after ensuring that the monitored portion is
[ ] [A ] vacant [B] occupied [C] obstructed [D] none of above

74. जब कभी धुरा काउंटर को लूप लाइन के लिए रीसेट किया जाना आवश्यक हो, इसे ड्यूटी स्टेशन मास्टर द्वारा एक ---------- कर्मचारियों के साथ किया जाना चाहिए.
[ ] [A] परिचालन कर्मचारी [B] सिगनल व दूरसंचार कर्मचारी
[C] A या B [D] उपर्युक्त में से कोई नहीं

**74.** Whenever axle counters provided for loop line are to be reset , it should be done by S M on duty along with one
[ ] A) Operating official B) S & T official C) A or B D) none of above

75. खराब स्टार्टर सिगनल (यदि यह एल एस एस न हो ) को पास करने के लिए प्राधिकार ----------है.
[ ] [A] बुलावा सिगनल को आफ में लिया जाय [B] टी.369(3b)+ आगे बढ़ो हथ सिगनल [C] A या B [D].पीएलसीटी

**75.** Authority to pass defective starter signal (if it is not LSS) is
A) calling on signal taken off B) T.369(3b)+ PHS C) A or B D) P L C T

76. जब आई बी डिस्टैंट 'आफ' स्थिति में खराब हो तो गाड़ी भेजने से पहले गाड़ी के लिए प्राधिकार ---है.

[ ] [A] पीएलसीटी [B] टी.369 (3b)
[C] पीएलसीटी + टी.369 (3b) [D] उपर्युक्त में से कोई नहीं

**76.** The authority given to the LP, when I B distant signal fails in “OFF” position ,before dispatching

[ ]A) P L C T B) T / 369 (3b) C) P L C T + T.369 (3b)D) none of above

77. डबल लाइन पर जब एल एस एस खराब हो तो गाड़ी आरंभ करने के लिए प्राधिकार --- है.

[ ] [A] टी.369 (3b) [B] पीएलसीटी [C] टी.806+PN [D] टी /C.602

**77.** On Double line when LSS is defective , Authority to proceed is

[ ] [A] T / 369 (3b) [B] P L C T [C] T / 806+PN [D] T/C.602

78. सिंगल लाइन टोकन रहित सेकशन पर जब एल एस एस खराब हो तो लोको पायलट को दिया जाने वाला प्राधिकार -------है.

[ ] [A] टी.369(3b) [B] टी /B.602 [C] टी.806+PN [D] पीएलसीटी

**78.** On Single line token less section, when LSS is defective Authority to proceed is

[ ] [A] T / 369(3b) [B] T/B.602[C] T.806+PN [D] P L C T

79. जब लोको पायलट प्रस्थान (स्टार्टर) को आंशिक रुप से पार करता है और अग्रिम प्रस्थान (अडवांस्ड स्टार्टर) से पहले रुक जाता है, तो ----------दिया जाता है.

[ ] [A] गार्ड द्वारा प्रतिहस्ताक्षरित मेमो [B]टी.369 (3b)+PHS

[C] अग्रिम प्रस्थान आफ में या पीएलसीटी [D] उपर्युक्त सभी

**79.** The authority required by Loco Pilot when passes starter at “ON” partly and stopped before Advanced Starter

[ ] (A) Memo countersigned by Guard B) T.369 (3b)+PHS

(C) Advanced starter taken off / PLCT (D) all the above

80. फाटक एवम् डिस्टैंट सिगनल फाटक के पीछे कम से कम---------की दूरी पर लगाया जाएगा

[ ] [A] 90 मीटर [B] 120 मीटर [C] 180 मीटर [D] 350 मीटर

**80.** Gate-cum-Distant signal shall be located in rear of the gate at a distance of not less than

[ ] [A] 90 meters [B] 120 meters [C] 180 meters [D] 350 meters

81. यदि सिगनल रंगीन बत्ती के स्थान पर सफेद बत्ती दिखा रहा हो तो यह माना जाएगा कि सिगनल ---------दिखा रहा है.

[ ] [A] सर्वाधिक प्रतिबंधित संकेत [B] सतर्कता संकेत [C]सावधान संकेत [D]रोक संकेत

**81.** If a signal is showing white light in place of a colour light, it is treated as showing

[ ] (A) most restrictive aspect (B) caution (C) attention (D) stop

82. जब कभी रंगीन बत्ती सिगनल टिमटिमाता हो /कट रहा (बाबिंग करता) हो और स्थिर संकेत ------समय तक नहीं आता हो तो सिगनल को खराब माना जाए.

[ ] [A] 20सेकेन [B] 30सेकेन [C] 60सेकेन [D] 120 सेकेन

**82.** The signal shall be treated as defective, whenever colour light signal is flickering / bobbing and does not assume a steady aspect for at least

[ ][A] 20 seconds [B] 30 seconds [C] 60 seconds [D] 120 seconds

83. जब आई बी सिगनल खराब हो तो लोको पायलट को यह प्राधिकार दिया जाता है

[ ][A] पीएलसीटी [B] टी./369 (3b) [C] दोनों A & B [D] उपर्युक्त में से कोई नहीं

**83.** The authority given to the loco pilot at station, when I B S is defective

[ ] (A) P L C T (B) T / 369 (3b) (C) Both A & B (D) none of above

84. समपार फाटक के साथ अंतर्पाशित आई बी सिगनल खराब होने के मामले में, स्टेशन मास्टर--------करेगा.

[ ][A] समपार फाटक बंद माना जाएगा [B] समपार फाटक को गैर-अंतर्पाशित माना जाएगा [C] चौकीदार से प्राइवेट नंबर आदान-प्रदान करेगा [D] दोनों 'B' & 'C'

**84.** In case the IBS, which is interlocked with L.C. Gate, becomes defective, SM shall

[ ] [A] treat the LC gate as closed [B]treat the LC Gate as non-interlocked [C]exchange PN with the Gateman [D]both 'B' and 'C'

85. आई बी सिगनल के लिए उपलब्ध सुविधा

[ ][A]पिछला स्टेशन मास्टर को फोन कनेक्ट होगा[B] अगला स्टेशन मास्टर को फोन कनेक्ट होगा [C] सेक्शन नियंत्रक को फोन कनेक्ट होगा [D] टी पी सी को फोन कनेक्ट होगा

**85.** The facility that is provided on an I B signal post is

[ ] [A] Phone connecting the rear SM [B] Phone connecting the advance SM

[C] Phone connecting the SCOR [D] Phone connecting the TPC

86. जब आई बी एस आन पर हो तो लोको पायलट रुकेगा और ----------से तुरंत संपर्क करेगा.

[ ] [A] अगले स्टेशन के स्टेशन मास्टर [B] सेक्शन नियंत्रक [C] पिछले स्टेशन के स्टेशन मास्टर [D] टीपीसी

**86.** When I B S is at `ON', the Loco Pilot shall stop in rear of the signal and contact

[ ] A) SM in advance B) SCOR C) SM in rear D) TPC

87. जब आई बी 'आन' पर हो, टेलीफोन खराब हो, तो ----------मिनट रुकने के बाद लोको पायलट दृश्यता स्पष्ट होने पर / न होने पर ----------किमीप्रघं की गति से अगले स्टाप सिगनल तक जाएगा.

[ ] [A] 10/8किमीप्रघं [B] 25/10किमीप्रघं [C]20/10किमीप्रघं [D]15/8किमीप्रघं

**87.** When IBS is at "ON" and the telephone is out of order, Loco Pilot after waiting for five minutes shall proceed when view is clear/not clear upto next stop signal at a speed not exceeding

[ ] A) 10 / 8kmph B) 25 / 10kmph C)20 / 10kmph D)15 / 8kmph

88. आईबीएस का धुरा काउंटर ठीक से काम नहीं कर रहा हो तो पिछला स्टेशन मास्टर, रिसेट करने के लिए ------बटन दबाएगा.

[ ] [A] पीबी-1 [B] पीबी -2 [C] पीबी -3 [D] पीबी -4

**88.** The button to be operated by S M rear , to reset axle counter, if I B S fails due to improper counting

[ ] [A] PB-1 [B] PB-2 [C] PB-3 [D] PB-4

89. जहां कहीं आईबीएस लगाया गया है, एल एस एस ----------से अंतरपाशित होता है

[ ][A] धुरा काउंटर [B] ब्लाक उपकरण [C] आईबीएस [D]ट्रेलिंग पाइंट

**89.** Wherever I B S is provided, LSS is interlocked with

[ ] (A) axle counter (B) Block Instrument (C) IBS (D) trailing points

90. आईबीएस क्षेत्र में, आइबी सिगनल ----------से अंतरपाशित है.

[ ][A] धुरा काउंटर [B] ब्लाक उपकरण [C] एलएसएस [D]ट्रेलिंग पाइंट

**90.** In I B S area , the I B Signal is interlocked with

[ ] (A) axle counter (B) Block Instrument (C) LSS (D) trailing points

91. जब लोको पायलट आईबीएस को आन पर पास करता है तो पिछले स्टेशन मास्टर को ----------संकेत दिखाई देगा.

[ ] [A] के 1 [B] के 2 [C] के 3 [D] के 4

**91.** The indication that appear at the SM in rear, when Loco Pilot passes I B S at `ON'

[ ] [A] K1 [B] K2 [C] K3 [D] K4

92. जब लोको पायलट एलएसएस को आफ स्थिति में पास करता है तो ----------संकेत दिखाई देगा

[ ] [A] के 1 [B] के 2 [C] के 3 [D] के 4

**92.** The indication that appear ,when Loco Pilot passes LSS in `OFF' position is

[ ] A) K1 B) K2 C) K3 D) K4

93. जब लोको पायलट एलएसएस को आफ स्थिति में पास करता है तो के 2 संकेत दिखाई देगा जो ----------को वापस लाने के बाद सामान्य हो जाएगा.

[ ] [A] एफएसएस नॉब/लीवर [B] एलएसएस नॉब/लीवर
[C] फाटक चाबी नॉब/लीवर [D] आइबीएस नॉब/लीवर

**93.** When Loco Pilot passes LSS in "OFF" position , K2 indication will appear which will become normal by putting back

[ ] A) FSS knob/lever B) LSS knob/lever

C) Gate key knob/lever D) IBS knob/lever

94. जब लोको पायलट आईबीएस को आफ स्थिति में पास करता है तो ----------संकेत दिखाई देगा

[ ] [A] के 1 [B] के 2 [C] के 3 [D] के 4

**94.** The indication that will appear when Loco Pilot passes IBS in "OFF" position is

[ ] A) K1 B) K2 C) K3 D) K4

95. जब लोको पायलट आईबीएस को आफ स्थिति में पास करता है तो के 3 संकेत दिखाई देगा जो ----------को वापस लाने के बाद सामान्य हो जाएगा.

[ ] [A] एफएसएस नॉब/लीवर [B] एलएसएस नॉब/लीवर
[C] फाटक चाबी नॉब/लीवर [D] आइबीएस नॉब/लीवर

**95.** When Loco Pilot passes IBS in "OFF" position, K3 indication will appear which will become normal, by putting back

[ ] A) FSS knob/lever B) LSS knob/lever

C) Gate key knob/lever D) IBS knob/lever

96. जबकभी आईबीएस या आईबी डिस्टैंट सिगनल का बल्ब फयूज हो तो बजर के साथ----------संकेत दिखाई देगा.

[ ] [A] के 1 [B] के 2 [C] के 3 [D] के 4

**96.** The indication that appear, along with buzzer, when ever I B S or I B distant signal bulb is fused is

[ ] [A] K1 [B] K2 [C] K3 [D] K4

97. किसी भी परिस्थिति में घसीटे गए (ट्रेल थ्रू) कांटों पर से गाड़ी को ------ नहीं किया जाएगा.

[ ] [A] आगे बढ़ाना [B] पीछे धकेलना [C] एमपीएस के साथ चलाना D] इनमें से कोई नहीं

**97.** Over the trailed through points, under no circumstances should a train be

[ ] [A]move forward [B] backed [C] run with MPS [D] none of these

98. नियंत्रण कार्यालय, प्रति दिन ---------बजे अपने नियंत्रणाधीन सेक्शनों के सभी स्टेशनो को सामान्य कॉल द्वारा मानक समय की सूचना देगा.

[ ] [A] 08.00 बजे [B] 16.00 बजे [C] 00.00 बजे [D] इनमें से कोई नहीं

**98.** The control office should advise the standard time daily by a general call to the stations at

[ ] [A] 08.00 hours [B] 16.00 hours [C] 00.00 hours D] none of these

99. सभी स्टेशन मास्टर 16.00 बजे समय मिलाएंगे और ------रजिस्टर में प्रविष्टि करेंगे.

[ ] [A] गाड़ी सिगनल रजिस्टर [B] सिवदू खराब रजिस्टर
[C] उपस्थिति रजिस्टर [D] PN आदान प्रदान रजिस्टर

**99.** All S Ms should correct the time at 1600 hrs and make an entry in the

[ ] (A) T S R ( B) S&T failure register

(C) Attendance register (D) PN exchange register

100. केवल -------की पूर्व अनुमति से ही परिवहन के लिए गाड़ी में अति आयाम परेषण (ओडीसी) लगाया जा सकता है.

[ ] [A] सीआरएस [B] रेलवे बोर्ड [C] टी एक्स आर [D] मुख्य परिचालन प्रबंधक

**100.** ODC shall be allowed to be attached by a train for transport only with prior sanction of

[ ] [A] CRS [B] RAILWAY BOARD [C] TXR [D] PCOM

101. घने कोहरे के दौरान पूर्ण ब्लाक पद्धति में गाड़ी की अधिकतम गति--किमीप्रघं तक प्रतिबँधित है

[ ] [A] 25किमीप्रघं [B] 8किमीप्रघं [C] 60किमीप्रघं [D] 20किमीप्रघं

**101.** During dense fog maximum speed of a train on Absolute block system shall be restricted to

[ ] A) 25kmph B) 8kmph C) 60kmph D) 20kmph

102. गैर-अंतरपाशित पाइंट, टर्न-आउट और क्रासओवर पर गाड़ियों की गति सामान्यतया ------ किमीप्रघं से अधिक नहीं होनी चाहिए.

[ ] [A] 8 किमीप्रघं [B] 10 किमीप्रघं [C] 15 किमीप्रघं [D] 30 किमीप्रघं

**102.** Normally the speed of trains over Non-Interlocked points, turnouts and crossover shall not exceed

[ ] [A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

103. 8 1/2 में 1 टर्न आउट (52/60 किग्रा पटरी का सिमेट्रिक स्प्लिट,मोटा वेब स्विच) पीएससी स्लीपर पर गाड़ी की गति ----------किमीप्रघं. तक प्रतिबंधित है

[ ] [A] 8 किमीप्रघं [B] 10 किमीप्रघं [C] 15 किमीप्रघं [D] 30 किमीप्रघं

**103.** The maximum speed of a train on 1 in 8 ½ turnout (symmetrical split, Thick Web switch of 52/60 kg rails on PSC sleepers and ) on PSC sleepers is restricted to

[ ] [A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

104. 8 1/2 में 1 टर्न आउट (52/60 किग्रा पटरी का कर्वड स्विच) पीएससी स्लीपर पर गाड़ी की गति ----------किमीप्रघं. तक प्रतिबंधित है

[ ] [A] 8 किमीप्रघं [B] 10 किमीप्रघं [C] 15 किमीप्रघं [D] 30 किमीप्रघं

**104.** The speed of a train on 1 in 8 ञ् turnout (curved switch of 52/60 km rails) on PSC sleepers is restricted to

[ ] [A] 8 kmph [B] 10 KMPH [C] 15 KMPH [D] 30 KMPH

105. पृथक्करण आवश्यक है जहां स्टेशन से सीधा गुजरने वाले गाड़ियों की गति --- से अधिक

[ ] [A] 50 किमीप्रघं [B] 110 किमीप्रघं [C] 75 किमीप्रघं [D] 15 किमीप्रघं

**105.** Isolation is necessary, where the trains are permitted to run through the station at a speed exceeding

[ ] [A] 50 kmph [B] 110 KMPH [C] 75 KMPH [D] 15 KMPH

106. --------की पूर्व अनुमति से इंजन पुशिंग की अनुमति है.

[ ] [A] अगला स्टेशन के स्टेशन मास्टर [B] पिछला स्टेशन के स्टेशन मास्टर

[C] नोटिस स्टेशन के स्टेशन मास्टर [D] उपर्युक्त में से कोई नहीं

**106.** Engine pushing is permitted with the prior permission of

[ ] (A) SM in advance ( B ) SM in rear

( C) SM of the notice station (D) none of above

107. जब गाड़ी बिना गार्ड के हो और पीछे ढकेला जा रहा हो तो गार्ड की ड्यूटी निम्न का होगा.

[ ][A] पाइंट्स मैन [B] सहायक लोको पायलट [C] स्टेशन मास्टर [D] इनमें से कोई नहीं

**107.** When engine is pushing a train without Guard, the duties of Guard devolves on

[ ] [A] Points Man [B] ALP [C] S M [D] none of these

108. केवल शंटिंग प्रयोजन के लिए नियुकत किए गए इंजन के दोनों ओर ----------रंग की मार्कर बत्ती जली होगी.

[ ] [A] सफेद [B]लाल [C] अंबर [D] लाल और पीला

**108.** The colour of marker lights on both sides of engine exclusively deployed for shunting purpose shall be

[ ] [A] white [B] red [C] amber [D] red and yellow

109. जब प्रमुख बत्ती (हेड लाइट) खराब हो तो मार्कर बत्ती जलाने के बाद गाड़ी ---------- किमीप्रघं की प्रतिबंधित गति से जा सकती है.

[ ] [A] 40किमीप्रघं [B] ब्लॉक सेक्शन में सेवेरेस्ट अस्थाई प्रतिबंधित गति
[C] A या B जो भी कम हो [D] उपर्युक्त में से कोई नहीं

**109.** When head light is defective after putting marker lights 'on' train can go with a speed not exceeding

[ ] (A) 40kmph (B) severest temporary speed restriction in the block section

(C) A or B which ever is less (D) none of above

110. रात के समय अंतिम वाहन संकेतक ---------- होगा

[ ] [A] अनुमोदित डिजाइन का एल वी बोर्ड [B] रेट्रोरेफल्ठक्टिव एल वी बोर्ड
[C] लाल टिमटिमाती बत्ती [D] लाल झंडी

**110.** Last vehicle indicator during night shall be

[ ] [A] L.V board of approved design [B] retro reflective L.V board

[C] red flashing light [D] red flag

111. सामान्य स्थिति में साइड लाइट इंजन की ओर ----------बत्ती दिखाएगा.

[ ] [A] लाल रंग [B] सफेद रंग [C] हरा रंग [D] पीला रंग

**111.** Normally, Side lights shall show towards the train engine

[ ] (A) red color (B) white color (C) green color (D) yellow color

112. ----------गाड़ियों में साइड लाइट को हटाया जा सकता है.

[ ][A] ईएमयू गाड़ियां [B] माल गाड़ियां [C] एक्सप्रेस गाड़िया ं[D] दोनों A & B

**112.** Side lights may be dispensed with ,for

[ ] (A) E M U (B) Goods trains (C) Express trains (D) Both A & B

113. जब गाड़ी के पीछे सहायक इंजन जोड़ा जाता हो तो सहायक इंजन के पीछे ---------- -- लगाया जाए.

[ ] [A] पिछला बोर्ड [B] पिछली बत्ती [C] या तो A या B [D] फ्लैशर लाइट

**113.** What shall be fixed behind an assisting engine when it is attached in rear of a train?

[ ] ( A) Tail board (B) Tail lamp (C) either 'A' or 'B' ( D) Flasher Light

114. पीछे के अंतिम वाहन में --- लगा रहना सुनिश्चित करना गार्ड का कर्तव्य है

[ ][A] पिछली बत्ती [B] पिछला बोर्ड [C] लाल झंडी [D] या तो A या B

**114.** It will be the duty of the Guard to ensure that , the last vehicle in rear is affixed with

[ ] (A) Tail lamp (B) Tail board (C) red flag (D) either A & B

115. अकेला इंजन या कपल्ड इंजन में ( पीछे )----------होगा.

[ ][A] पिछला बोर्ड [B] पिछली बत्ती [C] लाल मार्कर लाइट D] ं सफेद मार्कर लाइट

**115.** Light engines or coupled engines ( in rear )shall have

[ ] (A) tail board (B) Tail lamp (C) red marker lights (D) white marker lights

116. जब स्टेशन मास्टर देखता है कि गाड़ी बिना पिछली बत्ती/पिछले बोर्ड के गुजर गई है, जहाँ बीपीएसी उपलब्ध न हो तो वह ( पिछले स्टेशन की ओर ) ----------घंटी सिगनल देगा

[ ][A]छह विराम एक [B] छह विराम दो [C] छह विराम तीन [D] छह विराम चार

**116.** The bell signal that SM has to give, when he observes a train that passed without tail lamp/tail board ( to station in rear) where B P A C is not provided .

[ ]A) Six pause one B) Six pause two C) Six pause three D) Six pause four

117. जब स्टेशन मास्टर देखता है कि गाड़ी बिना पिछली बत्ती/पिछले बोर्ड के गुजर गई है, जहाँ बीपीएसी उपलब्ध न हो तो वह ( अगले स्टेशन की ओर )----------घंटी सिगनल देगा

[ ][A]छह विराम एक [B] छह विराम दो [C] छह विराम तीन [D] छह विराम चार

**117.** The bell signal that SM has to give , when he observes a train that passed without tail lamp/tail board ( to station in advance ) where BPAC is not provided.

[ ] A) Six pause one B) Six pause two C) Six pause three D) Six pause four

118. जब स्टेशन मास्टर देखता है कि गाड़ी बिना पिछली बत्ती/पिछले बोर्ड के गुजर गई है (जहां बीपीएसी उपलब्ध न हो ) तो बगलवाली लाइन पर आगे बढ़ने वाले गाडियों को रोकेगा और -- जारी करेगा

[ ] [A]पीएलसीटी [B] टी.369 (3b) [C] सतर्कता आदेश [D] मौखिक आदेश

**118.** When SM observes a train passed without tail lamp/tail board (where BPAC is not provided ), shall stop all the trains proceeding on adjacent line and issue

[ ] (A) P L C T (B) T / 369 (3b) (C) caution order (D) verbal orders

119. **गार्ड** अगले प्रमुख स्टेशन पर जहां गाड़ी रुकती है,के स्टेशन मास्टर को किसी रुकौनी या गाड़ी चालन की अनियमितता की सीटीआर में रिकार्ड करेगा और --------को एक विशेष रिपोर्ट भी भेजेगा.

[ ] [A]मंडल परिचालन प्रबंधक [B]मंडल यांत्रिक इंजीनियर
[C] मंडल रेल प्रबंधक [D]मंडल संरक्षा अधिकारी

**119.** Guard shall report to the Station Master of the next important station, any stoppage or other irregularities in train working and record the details in CTR and send a special report to

[ ] A) DOM B) DME C) DRM D) DSC

120. ओटीएल ( ब्रेक यान उपकरण )का पूर्ण रुप है

[ ][A] ओवर टाइम लीव [B] वन टाइम लाक [C] वन टाइम लीक D )वन टाइम लीवर

**120.** The full form of O T L ( BV equipment ) is

[ ] (A) over time leave (B) one time lock (C) one time leak (D )one time lever

121. आरंभिक स्टेशन का उप स्टेशन अधीक्षक/गाड़ी लिपिक, ब्रेक यान उपस्कर यथावत होने के संबंध में रजिस्टर में दर्ज करेगा. -- का पावती प्राप्त करेंगे.

[ ] [A] गार्ड [B]सेक्शन इंजीनियर (C&W)
[C] लोको पायलट जब बिना गार्ड हो [D] उपर्युक्त सभी

**121.** Dy.SS/TNC of the originating station shall record the intactness and availability of the BV equipment in the register and obtain acknowledgement of

[ ][A] Guard [B] S.E (C&W) [C] LP when without guard [D] all the above

122. अग्निशमन का आवधिक प्रतिस्थापन --- में एक बार किया जाता है

[ ] [A] 3 माह [B] 6 माह [C] 12 माह [D] 3 वर्ष

**122.** Periodical replacement of Fire Extinguishers ,shall be once in

[ ] [A] 3 months [B] 6 months [C] 12 months [D] 3 years

123. **गंतव्य स्टेशन पर, गार्ड** वन टाइम लाक (ओटीएल) और सील के ठीक-ठाक होने के बारे में उप स्टेशन अधीक्षक/सेक्शन इंजीनियर/कनिष्ठ इंजीनियर - सवमाडि से इसमें अभिस्वीकृति प्राप्त करेगा.

[ ] [A] रफ जर्नल या वीजी [B] सीटीआर [C] एलटीएम [D]आर एस-5

**123.** At destination station, Guard shall obtain acknowledgement about the intactness of OTL and seal of Dy.SS or SE / JE-C&W in the

[ ][A] Rough journal or VG [B] CTR [C] LTM [D] RS-5

124. आपात स्थिति में सहायक लोको पायलट, जहां उसे भारमुक्त करने का नजदीक पाइंट है, --- की प्रतिबंधित गति पर गाड़ी चलाने का प्रधिकार है.

[ ] [A] 30किमीप्रघं [B] 40किमीप्रघं [C] 60किमीप्रघं [D] MPS

**124.** In case of emergency Assistant Loco Pilot can be authorized to drive the train up to the nearest point where he can be relieved with a speed not exceeding

[ ]A) 30kmph B) 40kmph C) 60kmph D) MPS

125. कोई भी समय ( आपातकाल में छोड़कर ) इंजन पर इंजन कर्मीदल सहित पदाधिकारी/कर्मचारियों की अधिकतम संख्या है.

[ ] [A] 2 [B] 3 [C] 5 [D] 6

**125.** Maximum No. of officials / staff ,including engine crew at any time on the engine ( except in emergencies )

[ ] [A] 2 [B] 3 [C] 5 [D] 6

126. माल गाड़ी के ब्रेक यान में यात्रा करने के लिए गार्ड सहित व्यक्तियों की संख्या ---से अधिक न हो. [ ] [A] 2 [B] 3 [C] 5 [D] 6

**126.** The number of persons permitted to travel in the brake-van of goods trains, including Guard, should not exceed

[ ] [A] 2 [B] 3 [C] 5 [D] 6

127. आपात स्थिति में बिना ब्रेकयान के मालगाड़ी चलाने का आदेश ----------द्वारा दिया जा सकता है.

[ ] [A] वरि.मंडल परिचालन प्रबंधक [B] मंडल परिचालन प्रबंधक
[C] मंडल रेल प्रबंधक [D] या तो A या B

**127.** In an emergency , a goods train with out brake van can be ordered by

[ ] (A) Sr .DOM (B) DOM (C) DRM (D) either A or B

128. पैसेंजर या मेल/एक्सप्रेस गाड़ियों के पिछले ब्रेकयान (एस एल आर) के पीछे जोड़े जाने वाले अधिकारी निरीक्षण डिब्बे के अतिरिक्त अधिकतम ----डिब्बे लगाए जा सकते हैं.

[ ] [A] 1 [B] 2 [C] 3 [D] 5

**128.** Maximum number of coaches in addition to the officers inspection coach attached in rear of SLR of a Passenger / Mail & Express trains

[ ] [A] 1 [B] 2 [C] 3 [D] 5

129. माल गाड़ी के पिछले ब्रेक यान के पीछे जोड़े जाने वाले डिब्बों की अधिकतम (या उससे समान संख्या )

[ ] [A] 1 [B] 2 [C] 3 [D] 5

**129.** Maximum number of bogies ( or its equivalent ) attached in rear of the rear brake van by a goods train is

[ ] [A] 1 [B] 2 [C] 3 [D] 5

130. माल गाड़ी में लगाए जाने वाले खराब वाहनों या खराब इंजनों की अधिकतम संख्या

[ ] [A] 1 [B] 2 [C] 4 [D] कोई भी संख्या

**130.** Maximum number of damaged vehicle / engine allowed by a goods train.

[ ] [A] 1 [B] 2 [C] 4 [D]any number

131. ---------- से लिखित सूचना डुप्लिकेट में प्राप्त होने पर ही, स्टेशन मास्टर द्वारा मालगाड़ी में खराब वाहनों या खराब इंजन को लगाया जाता है .

[ ] [A] गाड़ी परीक्षक [B] एसएसई / लोको [C]या तो A या B [D] इनमें से कोई नहीं

**131.** Damaged vehicle/engine shall be attached to a goods train by SM, only on receipt of written advise in duplicate from

[ ] (A) TXR (B) SSE / loco (C) either A or B (D) none of these

132.जहां पर भी मध्यवर्ती स्टेशनों पर गाड़ी को जोड/अलग किए वाहन की प्रविष्टि वी जी में ----------द्वारा की जाए.

[ ] [A] गार्ड [B] स्टेशन कर्मचारी [C] लोको पायलट [D] इनमें से कोई नहीं

**132.** When ever vehicles are attached / detached on a train , at intermediate stations, the entries in the VG must be made by the

[ ] A) Guard B) Station staff C) Loco Pilot D) none of these

133.आपात स्थिति में बिना गार्ड के मालगाड़ी चलाने का आदेश इनके द्वारा दिया जा सकता है.

[ ] [A] स्टेशन मास्टर [B] उप मुख्य नियंत्रक
[C] वरि. मंडल परिचालन प्रबंधक [D] मंडल परिचालन प्रबंधक

**133.** In an emergency, a goods train without Guard can be ordered by

[ ] [A] SM [B] Dy. CHC [C] Sr. DOM
[D] DOM

134. स्टेशन मास्टर द्वारा लोको पायलट को यह बताते हुए आवश्यक पृष्ठांकन सहित ---------- जारी किया जाए कि गाड़ी को बिना गार्ड के चलाना है .

[ ] [A] मौखिक आदेश [B] गाड़ी नोटिस [C] गाड़ी आदेश [D] सतर्कता आदेश

**134.** The intimation , through which Station Master advices the Loco Pilot with necessary endorsement , stating that the train is to run without Guard is

[ ] A) verbal orders B) train notice C) train order
D) caution order

135. जब आई बी एस लगा हो तो स्टेशन मास्टर बिना गार्ड के गाड़ी के पीछे कोई गाड़ी नहीं भेजेगा, जब तक कि वह ----------नहीं पहुंचती हो.
[ ][A] आई बी एस [B] एफएसएस [C] आगे का ब्लॉक स्टेशन [D] इनमें से कोई नहीं

**135.** Where IBS is provided, the SM shall not dispatch a train in rear of the train running without Guard unless it reaches the
[ ] A) IBS B) First stop signal C) next block station
D) none of these

136. स्वचालित ब्लाक सेक्शन क्षेत्र में किसी भी बिना गार्ड के गाड़ी के पीछे जाने की अनुमति तब तक न दी जाए, जब तक कि वह अगले ---------- पर पूरी तरह न पहुंच जाती हो.
[ ] [A] रिपोर्टिंग स्टेशन [B] जंक्शन स्टेशन [C] स्वचालित सिगनल [D] गेट लॉज

**136.** In Automatic block territory, no train shall be allowed to follow a train without brake van / Guard , until it arrives complete at the next
[ ] A) reporting station B) Junction station
C) automatic signal D) gate lodge

137. बिना गार्ड के ---- के दौरान माल गाड़ियां चलाना पूरी तरह निषिद्ध है.
[ ] [A] तूफानी मौसम, [B] संचार व्यवस्था पूर्ण रुप से भंग होने पर
[C] टेंपररी सिंगल लाइन कार्यचालन [D] उपर्युक्त सभी

**137.** Running of a goods train without Guard , is strictly prohibited during
[ ] [A] tempestuous weather [B] total interruption of communications
[C] temporary single line working [D] all the above

138. जब स्टेशन मास्टर को गरम धुरा की सूचना प्राप्त होती है तो गाड़ी को ------लाइन पर लेने की प्राथमिकता दी जाए.
[ ] [A] सैंड हम्प से उपलब्ध लाइन [B] लूप लाइन
[C] मेंन लाइन [D] इनमें से कोई नहीं

**138.** When SM receives an advice of Hot axle on a train, it shall preferably be admitted on
[ ] [A] line provided with sand hump [B] loop line
[C] Main line [D] none of these

139. स्टेशन पर लदान/उतराई या टिपलिंग के बाद या स्टेशन से स्थाई स्टाक किलयर करने के बाद या अवैध बी पी सी के मामले में --------जांच आयोजित की जाए.

[ ] [A] गार्ड औठर स्टेशन मास्टर [B] लोको पायलट औठर स्टेशन मास्टर
[C] गार्ड औठर लोको पायलट [D] स्टेशन मास्टर, गार्ड औठर लोको पायलट

**139.** The check that shall be conducted , while clearing stabled stock from a station /invalid BPC, is
[ ] A) Guard and SM B) LP and SM C) Guard and LP D) SM, Guard & LP

140. जबकभी गाड़ी इंजन बदला जाता है----------जांच आयोजित किया जाए

[ ] [A] ब्रेक निरंतरता [B] जीएलपी जांच [C] ब्रेक पावर [D] फील टेस्ट

**140.** The test that shall be conducted , whenever train engine is changed, is
[ ] A) brake continuity B) GLP check C) brake power D) feel test

141. 60 यूनिट वाली गाड़ी के जी एलपी जांच के लिए अनुमत समय ---------- है.

[ ] [A] 20 मिनट [B] 60 मिनट [C] 45 मिनट [D] 30 मिनट

**141.** Time permitted for GLP check of a train consisting of 60 units is
[ ] [A] 20 minutes [B] 60 minutes [C] 45 minutes [D] 30 minutes

142. 60 यूनिट वाली बिना गार्ड के चलने वाली गाड़ी के जी एलपी जांच के लिए अनुमत समय ----------है.

[ ] [A] 20 मिनट [B] 60 मिनट [C] 45 मिनट [D] 30 मिनट

**142.** Time permitted for GLP check of a train working without Guard consisting of 60 units is
[ ] [A] 20 minutes [B] 60 minutes [C] 45 minutes [D] 30 minutes

143. स्टेशन पर होते समय लोको पायलट ----------के आदेशों का पालन करेगा.

[ ] [A] गार्ड [B] टीएलसी [C] लोको निरीक्षक [D] स्टेशन मास्टर

**143.** While at station, the Loco Pilot is to obey the orders of
[ ] [A] G D [B] T L C [C] L I
[D] S M

144. सी सी रेक बीपीसी की वैधता ----------है.
[ ] [A] 35दिन [B] 7500किमी [C] A या B जो भी पहले हो [D] इनमें से कोई नहीं

**144.** The validity of CC rake BPC is
[ ] A) 35 days B) 7500 KM
C) A or B which ever is earlier D) none of these

145. प्रीमीयम रेक बीपीसी की वैधता ---------- है.
[ ] [A] गंतव्य तक [B] 12 दिन [C] 30 दिन [D] 35 दिन

**145.** The validity of Premium rake BPC is
[ ] [A] till destination [B] 12 days [C] 30 days [D] 35 days

146. प्रीमीयम एंड से एंड बीपीसी के लिए दी गई छूट (ग्रेस) अवधि है.
[ ] [A] एक दिन [B]दो दिन [C]तीन दिन [D] चार दिन

**146.** The grace period given for Premium end to end BPC is
[ ] (A) one day (B) two days (C) three days
(D) four days

147. एंड से एंड बीपीसी की वैधता ---------- है.

[ ] [A]12+3 दिन [B] गंतव्य पर लदान पाइंट
[C] गंतव्य पर TXR point [D] दो TXR जांच पाइंट

**147.** The validity of End to end BPC is
[ ] (A)12+3 days ( B) loading point to destination
(C) TXR point to destination (D) two TXR checking points

148. स्टेशन मास्टर सीधी जाने वाली गाडी को सब ठीक है सिगनल दिखाने के लिए पाइंट्समैन की व्यवस्था करेगा.

[ ] [A] स्टेशन साइड से [B] आफ साइड से
[C] सुविधा के अनुसार कोई भी साइड से [D] इनमें से कोई नहीं"

**148.** S M shall arrange Points Man to show all right signals for a run through train from

[ ] [A] station side [B] off side
[C] any side as per convenience [D] none of these

149. सब ठीक है" सिगनल आदान प्रान करने से निम्नलिखित को छूट है.

[ ] [A] डीएमयू / ईएमयू के लोको पायलट [B] बिना गार्ड के गाड़ी का लोको पायलट [C] सुपर फास्ट गाडियों के गार्ड [D] इनमें से कोई नहीं

**149.** The following are exempted from exchanging 'All right' signals

[ ] [A] LP of DMU / EMU [B] LP of a train W/O guard [C] Guards of Super fast trains
[D] none of these

**150. इंजन को जोड़ने के बाद मालगाड़ी को आरंभ करने के लिए सामान्यतया -------मिनट की अनुमति दी जाती है.**

[ ] [A] 20 मिनट [B] 30 मिनट [C] 45 मिनट [D] 60 मिनट

**150.** The time allowed normally to goods trains to start , after engines have been attached is

[ ] (A) 20 minutes (B) 30 minutes (C) 45 minutes (D) 60 minutes

**151. वैकयूम एकजास्टर / एयर कंप्रेसर से जांच की गई संरचना के मामले में इंजन जोड़ने के बाद गाड़ि आरंभ करने के लिए लिया गया समय --------मिनट से अधिक नहीं होना चाहिए.**

[ ] [A] 20 मिनट [B] 30 मिनट [C] 45 मिनट [D] 60 मिनट

**151.** The time allowed to goods trains to start after engines have been attached in case of formations tested by Vacuum Exhausters/Air-Compressors, shall not exceed

[ ] (A) 20 minutes (B) 30 minutes (C) 45 minutes (D) 60 minutes

152. जब कोई गाड़ी (लदान और उतराई वाले स्टेशन के अलावा ) अन्य स्टेशन पर ---------घंटे से अधिक समय के लिए खड़ी हो तो नया बीपीसी आवश्यक है.

[ ] [A] 72 घंटे [B] 24 घंटे [C] सात दिन [D] चार दिन

**152.** Fresh B P C is required when train is stabled at a station ( other than loading and unloading station ) for more than
[ ] [A] 72 hours [B] 24 hours [C] seven days [D] four days

153. जब कभी (आठ पहिया ) वाहनों को माल गाड़ी/तक जोड़ा/अलग किया जाता है तो नया ब्रेक पावर प्रमाणपत्र आवश्यक है.
[ ] [A] 10 [B] 4 [C] एक [D] कुल वैगनों का 10%

**153.** Fresh B P C is required whenever ( eight-wheeler ) vehicles are attached or detached, to / from a goods train by more than
[ ] [A] 10 [B] 4 [C] one [D] 10% of total wagons

154. आरंभिक स्टेशन पर मेल / एकसप्रेस के मामले में प्रभावी ब्रेक पावर 100% और मार्ग में ------% से कम नहीं होना चाहिए.
[ ][A] 100% [B] 95% [C] 90% [D] विनिर्दिष्ट नहीं है

**154.** The effective brake power in case of Mail/Express at the originating station shall be 100% and en route should be not less than
[ ] (A) 100% (B) 95% (C) 90% (D) not specified

155. जब गाड़ी एफएसएस पर रुक जाती है, तो लोको पायलट अपने सहायक लोको पायलट को स्टेशन पर जाने के लिए---------मिनट के बाद प्रतिनियुक्त करेगा.
[ ] [A] 10 मिनट [B] 15 मिनट [C] 5 मिनट [D] इनमें से कोई नहीं

**155.** When a train is held up at F S S , the Loco Pilot shall depute his Assistant Loco Pilot to go to Station , after
[ ] [A] 10 minutes [B] 15 minutes [C] 5 minutes [D] none of these

156. यात्री गाड़ी चलाते समय लोको पायलट सुनिश्चित करेगा कि यात्री बोगी ---------- को ओवरशूट न करे
[ ][A] प्लैटफार्म [B] एफएसएस [C] सैंड हंप [D] इनमें से कोई नहीं

**156.** While working a passenger train , the Loco Pilot shall ensure that the passenger bogies do not over shoot
[ ] [A] platform [B] FSS [C] Sand hump [D] none of these

157. सीटी कोड, जिसे लोको पायलट द्वारा दी जाती ह,ठ जब स्टेशन मास्टर/ स्टेशन कमचारी द्वारा "सब ठीक है" सिगनल का आदान प्रदान नहीं किया जाता है

[ ] [A] 00 [B] 000 [C] __ __ 00 [D] 00__

**157.** The whistle code, that is given by the Loco Pilot when SM / Station Staff does not exchange ' all-right' signals is

[ ] (A) 00 (B) 000 (C) __ __ 00 (D) 00__

158. जब चलते समय इंजन की सीटी खराब हो जाए, तो ब्लाक सेक्शन सतर्कता से क्लियर करने के बाद लोको पायलट

[ ][A] 40 किमीप्रघं गति से जाएगा [B] PRC/TLC को सूचना देगा और तदनुसार कार्रवाई करेगा

[C] राहत या मरम्मत पूछेगा [D] इनमें से कोई नहीं

**158.** When engine whistle fails on run, after clearing block section cautiously , L P shall

[ ] [A] continue with 40 kmph [B] Advise PRC/TLC and act accordingly

[C] ask for repair or relief [D] none of these

159. उचित प्रधिकार के साथ आन पर सिगनल पार करते समय सीटी कोड---- है

[ ] [A] 0-0 [B] 0 0- [C] __ 0 __ [D] __0 0

**159.** Whistle code while ` *Passing Signal at ON with proper Authority* '

[ ](A) 0 - 0 (B) 0 0 - (C) _ 0 _ (D) _ 0 0

160. इंजन सीटी कोड 0 0 - संकेत देता है कि ----------

[ ] [A] इंजन में अपर्याप्त वायु दबाव [B]अलार्म जंजीर खींचा गया [C] या तो A या B

[D] उचित प्रधिकार के साथ आन पर सिगनल पार करे

**160.** Engine whistle code 0 0 - indicates

[ ] ( A) insufficient air pressure in engine ( B) alarm chain pulled

(C) either A or B (D) passing signal at On with proper authority

161. जब कभी गाड़ी फाउलिंग मार्क किलयर किए बिना रुकती है तो गार्ड तुंत स्टेशन मास्टर को सूचित करेगा और उल्लंघित लाइन पर किसी संचलन को रोकने के लिए ---------- दिखाएगा.

[ ] [A] हरी झंडी दिखाएगा. [B] सफेद बत्ती हिलाएगा
[C] PN का आदान प्रदान करेगा [D] रोक हथ सिगनल दिखाएगा.

**161.** Whenever train stopped without clearing fouling mark, to prevent any movement on the fouled line the Guard shall inform the SM at once by

[ ] (A) showing green flag (B) waving white light
(C) exchange of P N (D) exhibiting stop hand signal

162. ----------की अनुमति से ही सामग्री गाड़ी चलाई जा सकती है.

[ ] [A] मंडल रेल प्रबंधक [B] मंडल परिचालन प्रबंधक
[C] मुख्य परिचालन प्रबंधक [D] मंडल इंजीनियर

**162.** Material train shall be ordered to work with the permission of

[ ] [A] DRM [B] DOM [C] COM [D] DEN

163. ब्लाक सेकशन में काम करने और उसी स्टेशन को वापस आने के लिए सामग्री गाड़ी को भेजने के लिए लोको पायलट को ----------प्राधिकार दिया जाता है.ठ.

[ ][A] पीएलसीटी [B] लाइन क्लियर के बिना एटीपी [C] टी/462 [D] टी/ए.462

**163.** To despatch a material train for working in the block section and return to the same station, authority given to the LP , is

[ ] [A] PLCT [B] ATP W/O line clear [C] T/462 [D] T/A.462

164. ब्लाक सेकशन में काम करने और अगले स्टेशन को आगे जाने के लिए सामग्री गाड़ी के लोको पायलट को यह प्राधिकार दिया जाता है.

[ ] [A]टी.462 [B] टी/ए.462 [C]टी.465 [Dइनमें से कोई नहीं

**164.** The authority given to the LP of a material train for working in the block section and proceed to the next station ,is

[ ] A) T / 462 B) T/A 462 C) T / 465 D) none of these

165. कैसनब बोगी के साथ बीपीसी सामग्री गाड़ी का ब्रेक पावर प्रमाणपत्र ----------दिनों के लिए वैध होता है.

[ ][A] टीएक्सआर के पृष्ठांकन के बिना 30 दिन [B] 15 दिन में एक बार टीएक्सआर के पृष्ठांकन सहित 30 दिन [C] 35 दिन [D] इनमें से कोई नहीं

**165.** The validity of a material train B P C with CASNUB bogies, is
[ ]A) 30 days without endorsement of TXR

B) 30 days with endorsement of TXR once in fortnight

C) 35 days D) none of these

166. सामग्री गाड़ी के लिए आवश्यक ब्रेक पावर ----------से कम न होगा.
[ ] [A] 100 % [B] 85 % [C] 90 % [D] 95 %

**166.** The effective brake power of a material train shall be ( not less than )
[ ] [A] 100 % [B] 85 % [C] 90 % [D] 95 %

167. स्टेशन पर सामग्री गाड़ी को खड़ा करते समय सुरक्षित करने की जिम्मेदारी ----------की होगी.
[ ][A] गार्ड [B] स्टेशन मास्टर [C] स्टेशन मास्टर & गार्ड [D] गार्ड और रेलपथ निरीक्षक

**167.** Responsibility of stabling a material train at a station, lies with
[ ] A) Guard B) Station Master C) SM & Guard D) Guard and PWI

168. टी टी एम की अधिकतम गति ----------किमीप्रघं है
[ ] [A] 10किमीप्रघं [B] 20किमीप्रघं [C] 30किमीप्रघं [D] 40किमीप्रघं

**168.** The maximum speed of a T T M is
[ ] A) 10kmph B) 20kmph C) 30kmph D) 40kmph

169. टी टी एम की अधिकतम गति पाइंटों और क्रासिंगों पर गति ----------किमीप्रघं है.
[ ] [A] 10किमीप्रघं [B] 20किमीप्रघं [C] 30किमीप्रघं [D] 40किमीप्रघं

**169.** The maximum speed of a T T M , over points and crossing is
[ ] A) 10kmph B) 20kmph C) 30kmph D) 40kmph

170. केवल ----------के समय ही ब्लाक सेकशन में टी टी एम चलाने की अनुमति है.
[ ] [A] लाइन ब्लाक [B]समाकलित ब्लाक [C]शैडो ब्लाक [D] उपर्युक्त सभी

**170.** A TTM is permitted to work in the block section only during
[ ] A) line block B) integrated block C) shadow block D) all the above

171. जब टी टी एम एक दूसरे के पीछे जाता हो तो दूसरे टी टी एम कि प्रतिबंधित गति ------ ---किमीप्रघं है.

[ ] [A] 25/10 किमीप्रघं [B] 15/10 किमीप्रघं [C] 15/8 किमीप्रघं [D] कोई प्रतिबंध नहीं

**171.** When TTMs are following each other, the speed of the second TTM is restricted to

[ ] [A] 25/10 kmph [B] 15/10 kmph [C] 15/8 kmph [D] no restriction

172. स्टेशन संचालन नियम (अंतरपाशित स्टेशन )को हस्ताक्षर कर जारी करने वाले पदाधिकारी --- &---- है

[ ][A]. मंडल परिचालन प्रबंधक & मंडल इंजीनियर [B]. मंसिवदूंजी & मंडल इंजीनियर

[C] मंडल परिचालन प्रबंधक & मंडल संरक्षा अधिकारी [D]मंडल परिचालन प्रबंधक &मंसिवदूंजी

**172.** The officials to sign and issue the SWR ( Interlocked Stations ) are

[ ] ( A) DOM & DEN (B) DSTE & DEN (C) DOM & DSO (D) DOM & DSTE

173. स्टेशन संचालन नियम का आरेख ------ द्वारा हस्ताक्षर किया जाता है

[ ][A] मंडल इंजीनियर & मंडल विद्युत इंजीनियर [B] मंसिवदूंजी & मंडल परिचालन प्रबंधक [C] मंडल परिचालन प्रबंधक, मंसिवदूंजी & मंडल इंजीनियर [D] यातायात निरीक्षक & वसेइंजी (SIG)

**173.** SWR diagram must be signed by

[ ] [A] DEN & DEE [B] DSTE & DOM [C] DOM, DSTE & DEN

[D] T I & SSE (SIG)

174. स्टेशन संचालन नियम के परिशिष्ट G (विद्यजत सेक्शन के नियम) को इनके द्वारा हस्ताक्षरित किया जाएगा.

[ ] [A] डी ओ एम &डी एस टी ई [B] डी ओ एम & डी ई एन

[C] डी ओ एम, डी एस टी ई &डी ई ई [D] टी आई & एसएसई (सिगनल)

**174.** Appendix 'G' (rules for electrified section) of SWR must be signed by

[ ] [A] DOM&DSTE [B] DOM & DEN

[C] DOM , DSTE & DEE [D] TI& SSE (SIG)

175. स्टेशन संचालन नियम को -- में फिर से नए रुप से जारी किया जाएगा

[ ] [A] 3 वर्ष [B] 5 वर्ष [C]आधा वर्ष पूरा होने के बाद एक वर्ष [D] 10 वर्ष

**175.** SWR should be issued afresh , once in

[ ] [A] 3 years [B] 5 years

[C]one year after completion of half year [D] 10 years

176. निम्नलिखित----------शुद्धिपर्ची जारी होने पर, स्टेशन संचालन नियम नया जारी किया जाए.

[ ] [A] 3 [B] 4 [C] 5 [D] 7

**176.** After issue of following number of amendment slips , SWR shall be issued afresh

[ ] [A] 3 [B] 4 [C] 5 [D] 7

177. निम्नलिखित मामले में कर्मचारियों से नया घोषणा पत्र लिया जाता है

[ ] [A] स्टेशन में नया कर्मचारी कार्यभार ग्रहण करने पर

[B]निरंतर 15 दिन या अधिक की अनुपस्थिति के बाद स्टेशन पर ड्यूटी पर वापस आने वाले कर्मचारी [C] स्टेशन संचालन नियम कोई परिवर्तन होने पर [D] उपर्युक्त में से कोई एक

**177.** Fresh declaration shall be obtained from a member of staff in the following case

[ ] [A] A new member of staff joins the station

[B] Resumes duty after an absence of 15 consecutive days or more.

[C] any change in the SWR [D] Any of the above

178. निम्नलिखित फार्मों को मुद्रित फार्मेट में जारी किया जाए.

[ ] [A] टी/डी.1425 [B] टी /369(3b) [C] टी /462 [D] टी /409

**178.** The following forms shall be issued in printed format

[ ][A] T/D 1425 [B] T/369(3b) [C] T/462 [D] T/409

179. अवरुद्ध लाइन पर गाड़ी के प्रवेश के लिए लोको पायलटों को ----------प्राधिकार दिया जाए

[ ] [A] टी/511 [B] पयलट इन मेमो [C] टी/369(3[B] [D] टी/509

**179.** Written authority , to receive a train on to an obstructed line

[ ] [A] T/511 B] pilot in memo [C] T/369(3b) [D] T/509

180. अवरुद्ध लाइन पर गाड़ी लेते समय, अवरोध से (कम से कम ) -------मीटर की दूरी से *रोक हथ सिगनल* दिखाया जाए.
[ ] [A]. 45 मीटर [B] 20 मीटर [C] 120 मीटर [D]. 180 मीटर

**180.** While receiving a train on to an obstructed line, *Stop hand signal* shall be exhibited from the point of obstruction at a distance of ( not less than )
[ ] (A) 45 metres (B) 20 metres (C) 120 metres (D) 180 metres

181. कामन स्टार्टर सिगनल वाले स्टेशन से गाड़ी आरंभ करने के लिए लिखित प्राधिकार--------है.

[ ] [A] टी/511 [B] पयलट आउट मेमो [C] टी/512 [D] टी/509

**181.** Written authority to start a train from a station having common starter, is
[ ] [A] T/511 [B] pilot out memo [C] T/512 [D] T/509

182. शंटिंग प्रचालन के दौरान गति ----------से अधिक नहीं होनी चाहिए.
[ ] [A] 10 किमीप्रघं [B] 15किमीप्रघं [C] 30 किमीप्रघं [D] 8 किमीप्रघं

**182.** The speed during shunting operations ,shall not exceed
[ ] [A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

183. ----------के पीछे अवरुद्ध लाइन पर स्लिप डिब्बे न रखे जाएंं.
[ ] [A] यात्री गाड़ी [B] अकेला इंजन [C] शंटिंग इंजन [D] खड़ा लदान

**183.** Slip coaches shall not be kept on a blocked line in the rear of a
[ ] [A] passenger carrying train [B] light engine
[C] shunting engine [D] stabled load

184 यात्री गाड़ी की शंटिंग करते समय, स्लिप डिब्बों के सहित या रहित शंटिंग इंजन या गाड़ी इंजन फार्मेशन में लगाने से पहले इसे फार्मेशन से --------मीटर पहले रोका जाए.
[ ] [A] 45 मीटर [B] 20 मीटर [C] 15 मीटर [D] 10 मीटर

**184.** While performing shunting on passenger carrying trains, the shunting engine before coming on to the formation should be stopped before the formation at a distance of
[ ] [A] 45 metres [B] 20 metres [C] 15 metres [D] 10 metres

185. ऐसे स्टेशन पर जहां अलग से शँटिंग कर्मचारी उपलब्ध नहीं है, शंटिंग प्रचालन का निजी पर्यवेक्षण इनके द्वारा किया जाएगा

[ ][A] पाइंट्स मैन [B] लोको पायलट [C] स्टेशन मास्टर [D] गार्ड

**185.** At a station where separate shunting staff are not employed, shunting operations shall personally be supervised by

[ ] [A] Points Man [B] Loco pilot [C] SM [D] Guard

186. पूरी गाड़ी को एक लाइन से दूसरी लाइन (बरास्ता मेन लाइन) पर पीछे करते समय शंटिंग पर्यवेक्षण इनके द्वारा किया जाएगा

[ ] [A] पाइंट्स मैन [B] लोको पायलट [C] स्टेशन मास्टर [D] गार्ड

**186.** While backing a full train from one line to another via main line, shunting supervision shall be done by

[ ] [A] Points Man [B] Loco pilot [C] SM [D] Guard

187. यात्री डिब्बों को शंटिंग के लिए ----------ध निजी आदेशों के बिना न हटाया जाए.

[ ] [A] स्टेशन मास्टर & लोको पायलट [B] गार्ड & स्टेशन मास्टर

[C] गार्ड [D] गार्ड & लोको पायलट

**187.** Carriages containing passengers shall not be moved for shunting purpose without the personal orders of the

[ ] (A) SM& LP (B) GD &SM (C) GD (D) .GD&LP

188. शंटिंग करते समय ऐसे पाइंट जो सिगनल द्वारा सुरक्षित नहीं है, -----या ------तरीके से ताला लगाया जाए.

[ ] [A] क्लैंप कर ताला बंद करना [B] कॉटर बोल्ट कर और पैड लॉक करना

[C] या तो A या B [D] इनमें से कोई नहीं

**188.** While performing shunting, the points which are not protected by signals must be locked by following methods

[ ] [A] clamped and padlocked [B] cotter bolted and padlocked

[C] Either A or B

[D] none of these

189. विस्फोटक से लदे मालडिब्बों की शंटिंग करते समय शंटिंग का पर्यवेक्षण ---------- द्वारा किया जाए.

[ ][A] पाइंट्स मैन [B] लोको पायलट [C]स्टेशन मास्टर [D] गार्ड

**189.** While shunting wagons containing explosives, the supervision shall be done by

[ ] [A] Points Man [B] Loco Pilot [C] S M [D] Guard

190. विस्फोटक और पीओएल उत्पाद की शंटिंग करते समय अधिकतम गति ----------किमीप्रघं से अधिक न हो.

[ ][A] 10 किमीप्रघं [B] 15किमीप्रघं [C] 30 किमीप्रघं [D] 8 किमीप्रघं

**190.** The maximum speed while shunting of wagons containing explosives and P O L products shall be

[ ] [A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

191. जहां शंटिंग प्रचालन का पर्यवेक्षण गार्ड /स्टेशन मास्टर द्वारा किया जाता है, लोको पायलट को फार्म सं. ----- (शंटिंग अनुदेश फार्म) दिया जाएगा.

[ ] [A] टी/ए.806 [B] लिखित मेमो [C] टी/806 [D] टी/409

**191.** Where shunting operations are supervised by Guard/SM, Loco Pilot shall be given

[ ] [A] T/A 806 [B] written memo [C] T/806 [D] T/409

192. रोलर बेयरिडग मालडिब्बों की शंटिंग करने के लिए ----------ग्रेडिएंट और स्टीप (खड़ी ढाल) समझा जाता है.

[ ] [A] 400 में 1 [B. 600 में 1 [C] 260 में 1 [D] 150 में 1

**192.** The gradient that is considered as steep gradient for the purpose of shunting roller bearing wagons

[ ] A] 1 in 400 [B]1 in 600 [C] 1 in 260 [D] 1 in 150

193. खड़ी ढाल (स्टीप ग्रेडिएंट) पर रोलर बेयरिडग वाहनों की शंटिंग हमेशा इंजन को ----------की ओर लगाकर की जानी चाहिए.

[ ][A] सुविधा अनुसार [B] ढाल को कम करने [C] ढाल को बढ़ाने [D] इनमें से कोई नहीं

**193.** Shunting of roller bearing vehicle on a steep gradient shall be done only with locomotive attached towards the

[ ] [A] As per convenience [B] falling gradient

[C] Raising gradient [D] none of these

194. मालगाड़ियों को इंजन खडा करने के लिए कम से कम ----------मालडिब्बों के हैंड ब्रेक लगाए जाएं.

[ ] [A] प्रत्येक छोर से 3 [B] प्रत्येक छोर से छह वैगन

[C] प्रत्येक छोर से नौ [D] इंजन से 10, ब्रेक यान से 5

**194.** While stabling a goods train, minimum no. of vehicles hand brake to be applied are

[ ] [A] 3 from each end [B] six wagons on either side

[C] nine from each end [D] 10 from engine 5 from B/V

195. जब गाड़ी का लोको पायलट रेलपथ में कोई असामान्य स्थिति देखता है तो वह ----------पर गाड़ी रोक देगा.

[ ] [A] अगले स्टेशन के एलएसएस पर [B] अगले स्टेशन का होम सिगनल

[C] स्टेशन सेक्शन के भीतर

[D] ब्लॉक सेक्शन को क्लियर किए बिना अगले ब्लॉक स्टेशन पर

**195.** When the Loco Pilot of a train experiences any abnormal condition on the track, shall stop his train at

[ ][A] LSS of next station (B) Home signal of next station

[C] within station section [D] next block station without clearing block section

196. आईबीएस और आटोमेटिक ब्लाक क्षेत्र में जब गाड़ी का लोको पायलट रेलपथ में कोई असामान्य स्थिति देखता है तो वह गाड़ियों के संचलन को रोकने के लिए -----को सूचित करेगा.

[ ] [A] स्टेशन मास्टर [B] आनेवाले गाड़ियों के लोको पायलट यदि हो तो

[C] दोनों A & B [D] इनमें से कोई नहीं

**196.** When the Loco Pilot of a train experiences any abnormal condition on the track, in case of IBS / Automatic block territories, shall stop the movement of trains and inform

[ ] [A] Station Master [B] Loco pilots of following trains if any

[C] both A & B [D] none of these

197. लोको पायलट को जब लर्च की सूचना प्राप्त होती है और बाद में इंजीनियरी पदाधिकारी के साथ गाड़ी भेजी जाती है, लोको पायलट को सतर्कता आदेश दिया जाता है कि

[ ] [A] एकदम रुकेगा और इंजीनियरिंग कर्मचारियों द्वारा मार्गदर्शन किया जाएगा

[B] सीधे जाएगा (रन थ्रू ) [C] 10 किमीप्रघं से आगे बढ़ें
[D] 10 किमीप्रघं की ग.प्रति. का पालन करेगा

**197.** When 'lurch' is reported and subsequently a train is sent with engineering official, caution order is given to the LP to
[ ] [A] stop dead and be guided by Engg.official [B] Run through
[C] Simply proceed with 10 kmph D] observe SR of 10kmph

198. जब *लर्च* की सूचना प्राप्त होती है और बिना इंजीनियरी पदाधिकारी के साथ गाड़ी भेजी जाती है, लोको पायलट को सतर्कता आदेश दिया जाता है कि वह एक दम रुके और यदि सुरक्षित माना गया और कुछ नही पाया गया हो तो -------किमीप्रघं की गति से आगे बढ़े.
[ ][A] 10 किमीप्रघं [B] 15 किमीप्रघं [C] 30 किमीप्रघं [D] 8 किमीप्रघं

**198.** When 'lurch' is reported and subsequently a train is sent in the absence of engineering official, caution order is given to the LP to stop dead if considered safe or nothing found, proceed at a speed of
[ ] [A] 10 kmph [B] 15 kmph [C] 30 kmph [D] 8 kmph

199. 30 मिमी. से कम की पटरी टूटी होने के कारण पहली गाड़ी की गति ----------किमीप्रघं होगी.
[ ][A] 10 किमीप्रघं [B] 15किमीप्रघं [C] 30 किमीप्रघं [D] 8 किमीप्रघं

**199.** Rail fracture of less than 30mm, the speed of first train shall be
[ ] [A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

200. 30 मिमी. से कम की पटरी टूटी होने के कारण दूसरी और बाद वाली गाड़ी की गति ----------किमीप्रघं होगी
[ ][A] 10 किमीप्रघं [B] 15किमीप्रघं [C] 30 किमीप्रघं [D] 8 किमीप्रघं

**200.** Rail fracture of less than 30mm, the speed of second and subsequent trains shall be
[ ] [A] 10 kmph [B] 15kmph [C] 30 kmph [D] 8 kmph

201. 30 मिमी. से अधिक की पटरी टूटी होने पर या बहु ैकचर होने पर गाड़ी की अनुमति देने के लिए इनका प्रमाणन आवश्यक है.
[ ] [A] सहायक इंजीनियर [B]रेलपथ निरीक्षक [C]चाबीवाला [D] गैंगमेट

**201.** Rail fracture of more than 30 mm or multiple fractures, track is to be certified by
[ ] [A] AEN [B] PWI [C]key man [D] Gang mate

202. डबल लाइन पर (टीएसएल कार्यचालन के अलावा ) किसी अन्य कारण से यातायात की स्थापित दिशा के विरुद्ध गाड़ी भेजने के लिए ---------- प्राधिकार जारी किया जाएगा .
[ ][A] सीएलसीटी [B] टी/जे.602 [C] पी एलसीटी [D] टी/369(3बी)

**202.** On Double line, Authority to dispatch a goods train against the established direction of traffic for any reason ( other than introduction of TSL working ) is
[ ] [A] C L C T [B] T/J 602 [C] P L C T [D] T/369(3b)

203. टीएसएल चालन के दौरान ब्लाक उपकरण को------स्थिति में लाया जाए और ताला लगाया जाए.

[ ] [A] टी ओ एल स्थिति [B] लाइन बंद स्थिति [C] लाइन क्लियर स्थिति [D] केवल गलत लाइन गाड़ियों के लिए टी ओ एल स्थिति

**203.** During T S L working , the block instruments shall be kept and locked in
[ ] [A] T O L position [B] Line closed position [C] Line clear position [D] TOL position for wrong line trains only

204. *अस्थाई इकहरी लाइन* कार्यचालन के दौरान लोको पायलट को --------प्राधिकार दिया जाएगा.
[ ][A] पी एलसीटी [B] सीएलसीटी [C] टी/डी.602 [D] टी/369(3बी)

**204.** During Temporary Single Line working, the written Authority given to Loco Pilot is
[ ] [A] P L C T [B] C L C T [C] T/D 602 [D] T/369(3b)

205. टीएसएल चालन के दौरान पहली गाड़ी की गति ----------किमीप्रघं है.
[ ] [A] 25 किमीप्रघं [B] 10 [C] 15 [D] अधिकतम अनुमत गति

**205.** During T S L working, the speed of first train shall be
[ ] [A] 25 kmph [B] 10 [C] 15 [D] MPS

206. टीएसएल चालन के दौरान दूसरी और बाद वाली गाड़ियों की गति ----------है

[ ] [A] 25 किमीप्रघं [B] 10 [C] 15 [D] अधिकतम अनुमत गति

**206.** During T S L working the speed of second and subsequent trains shall be

[ ] [A] 25 kmph [B] 10 [C] 15 [D] M P S

207. टीएसएल चालन के दौरान जब गाड़ी गलत लाइन पर जा रही हो तो प्रस्थान प्राधिकार एटीपी के अलावा -----जारी करने द्वारा गाड़ी का प्रस्थान किया जा सकता है

[ ] [A] पायलट आउट मेमो [B] टी/369(3बी) [C] टी/511 [D] टी/512

**207.** During TSL working when the train is proceeding on wrong line, in addition to ATP, the train shall be despatched by issuing

[ ] [A] pilot out memo [B] T/369(3b) [C] T/511 [D] T/512

208. डबल लाइन पर टीआईसी के दौरान लोको पायलट के लिए प्राधिकार----- है.

[ ] [A] टी/सी.602 [B] पी एलसीटी [C] टी/बी.802 [D] सीएलसीटी

**208.** During T I C on double line authority to the Loco Pilot

[ ] [A] T/C.602 [B] PLCT [C] T/B.802 [D] CLCT

209. जब गाड़ियां टी/सी 602 पर चलाई जाती हैं तो दो गाड़ियों के बीच समय अंतराल --------- मिनट होगा.

[ ][A] 5 मिनट [B] 10 मिनट [C] 15 मिनट [D] 30 मिनट

**209.** When trains are dealt on T/C 602, the time interval between two consecutive trains shall be

[ ] [A] 5 minutes [B] 10 minutes [C] 15 minutes [D] 30 minutes

210. सिंगल लाइन /डबल लाइन पर टीआईसी और टीएसएल चालन के दौरान ----------सिगनल को छोड़कर अन्य सभी सिगनल 'आफ' किए जा सकते हैं.

[ ] [A] एलएसएस [B] प्रस्थान [C] आगमन सिगनल [D] सभी सिगनल

**210.** During T I C on Single Line /Double line and T S L working, the signal, that cannot be taken OFF is

[ ] [A] LSS [B] Starter [C] reception signals [D] all the signals

211. जब मोटर ट्राली / टावर कार संचार खोलने के लिए भेजा जाता है, तो इसके साथ-------- जाएंगे.

[ ] [A] इंजी.पदाधिकारी जो रेलपथ निरी. से कम ओहदा के न हो

[B] प्रतीक्षा कर रहा कोई भी गाड़ी का लोको पायलट

[C] पाइंट्समैन [D] गार्ड या आफ ड्यूटी स्टेशन मास्टर

**211.** When a Motor trolley / Tower car is sent for opening communication, it shall be accompanied by

[ ] [A] Engg. Official not below rank of PWI [B] Loco Pilot of any train waiting

[C] Points Man

[D] Guard or off duty SM

212. संचार खोलने के लिए जाने वाला अकेला इंजन ----------प्राधिकार पर जाएगा.

[ ] [A] टी/ए.602 [B] टी/बी.602 [C] टी/सी.602 [D] टी/डी.602

**212.** Authority for light engine, going to open communications shall be

[ ] [A] T/A 602 [B] T/B 602 [C] T/C 602 [D] T/D 602

213. संचार खोलने के लिए जाने वाला लाइट इंजन की गति --------किमीप्रघं होगी.

[ ] [A] 15/10 किमीप्रघं [B] 10/8 किमीप्रघं [C] सामान्य गति [D] 25 किमीप्रघं

**213.** The speed of the Light engine going for opening of communication, shall be

[ ] [A] 15/10 kmph [B] 10/8 kmph [C] normal speed [D] 25 kmph

214. संचार खोलने के बाद अकेले इंजन को वापस आने के लिए प्राधिकार ----------है.

[ ] [A] सीएलसीएम [B] पीएलसीटी [C] टी/बी.602 [D] सीएलसीटी

**214.** After opening communication, the light engine shall return on

[ ] [A] C L C M [B] P L C T[C] T/B 602 [D] C L C T

215. डाउन सीएलसीटी इस फार्म में तैयार किया जाता है.

[ ] [A] टी/डी.1425 [B] टी /जी.602 [C] टी /एच.602 [D] टी /एफ.602

**215.** DN CLCT is prepared on Form No :

[ ] [A] T/D 1425 [B] T/G 602 [C] T/H 602
[D] T/F 602

216. जब गाड़ियों का आवागमन समान हो, तो पूछताछ और उत्तर संदेश इसके जरिए भेजा जाता है.
[ ] [A] लाको पायलट [B] आफ ड्यूटी स्टेशन मास्टर [C] पाइंट्समैन [D] गार्ड

**216.** When there is an even flow of trains, enquiry and reply messages are sent through
[ ] [A] Loco Pilots [B] SM off duty [C] Points Men [D] Guards

217. संचार खोलने के बाद पहली (प्रतीक्षित) गाड़ी की गति ----------होगी.
[ ][A] 25/10 किमीप्रघं [B] 15/10 किमीप्रघं [C] सामान्य गति [D]15/8 किमीप्रघं

**217.** After opening communication, the speed of the first train (waiting) shall be
[ ] [A] 25/10 kmph [B] 15/10 kmph [C] normal speed [D] 15/8 kmph

218. जैसे ही संचार व्यवस्था को बहाल किया जाता है, स्टेशन मास्टर निर्धारित इस फार्म संख्या में दूसरे स्टेशन के स्टेशन मास्टर को संदेश भेजेगा.
[ ] [A] टी/ई.602 [B] टी /जी.602 [C] टी /एच.602 [D]टी /टाई.602

**218.** Once communication is restored, the Station Master must send a message to the SM of adjacent station in the prescribed form on
[ ] [A] T/E 602 [B] T/G 602 [C] T/H 602 [D] T/I 602

219. अवरुद्ध ब्लाक सेकशन में राहत इंजन भेजने के लिए लिखित प्राधिकार ----------है.
[ ][A] टी /ए.602 [B] टी /बी.602 [C] टी /सी.602 [D] टी /डी.602

**219.** Written authority to dispatch a relief engine into an obstructed block section, is
[ ] [A] T/A 602[B] T/B 602 [C] T/C 602 [D] T/D 602

220. यदि यात्री गाड़ी / मालगाड़ी अपने सामान्य रनिंग समय के बाद और -------/------मिनट में न आए तो स्टेशन मास्टर सक्षम रेल सेवक को भेजने की व्यवस्था करेगा.
[ ][A] 5/10 मिनट [B] 10/20 मिनट [C] 20/30 मिनट [D] 15/25मिनट

**220.** S M shall arrange to send a competent railway servant, if a passenger / goods train does not turn up, even after the normal running time and
[ ] [A] 5/10 minutes [B] 10/20 minutes [C] 20/30 minutes [D] 15/25 minutes

221. यदि लोको पायलट बिना किसी प्रस्थान प्राधिकार के ब्लाक सेकशन में प्रवेश करता है और बाद में अपने सहायक को मेमों के साथ पिछले स्टेशन मास्टर को भेजता है, तो वह स्टेशन मास्टर ----------देगा.
[ ][A] पी एलसीटी [B] सतर्कता आदेश [C] टी/ए.602 [D] टी/369(3बी)

**221.** If Loco Pilot enters block section with out A T P and subsequently send his Assistant Loco Pilot with a memo to SM in *rear*, that S M shall arrange to send
[ ] [A] P L C T [B] Caution order [C] T/A 602 [D] T/369(3b)

222. यदि लोको पायलट बिना किसी प्रस्थान प्राधिकार के ब्लाक सेकशन में प्रवेश करता है और बाद में अपने सहायक को मेमों के साथ अगले स्टेशन मास्टर को भेजता है, तो वह स्टेशन मास्टर ----------देगा.
[ ] [A] पी एलसीटी [B] सतर्कता आदेश [C] टी/ए.602 [D] टी/369(3बी)

**222.** If Loco Pilot enters block section with out A T P and subsequently sends his Assistant Loco Pilot with a memo to SM in *advance,* that S M shall arrange to send
[ ] [A] P L C T [B] Caution order [C] T/A 602 [D] T/369(3b)

223. यदि गाड़ी विभाजित होती है, लोको पायलट अगले स्टेशन को जाने का निर्णय लेता है, आने वाले स्टेशन को निम्न सीटी कोड देगा
[ ] [A] – -- 0 0 [B] – 0 -- 0 [C] – 0 0 [D] 0 – 0

**223.** If a train parts and the Loco Pilot decided to proceed to the station ahead, he shall, on approaching the station give the following whistle code
[ ]A] _ _ 0 0 [B] _ 0 _ 0 [C] _ 0 0 [D] 0 _ 0

224. विभाजित गाड़ी कार्यचालन के दौरान, लाको पायलट अगला भाग क्लियर करने के लिए दिया जाने वाला गार्ड द्वारा जारी लिखित प्राधिकार----------है.
[ ] [A] टी/ए.602 [B] सतर्कता आदेश [C] टी/609 [D] लिखित मेमो

224. During divided train working, the written authority issued by the Guard of the train to the L P to clear the first portion , is
[ ] [A] T/A 602[B] Caution order [C] T/609 [D] Written memo

225. जब माल गाड़ी गार्ड के बिना चल रहा है और विभाजित हो गई है, लोको पायलट पहला भाग को ----- तैयार कर लायेगा
[ ] [A] टी/ए..602 [B] सतर्कता आदेश [C] टी/609 [D] लिखित मेमो

225. When a goods Train runs without Guard has to be divided, the Loco Pilot shall bring first portion by preparing
[ ] [A] T/A.602 [B] Caution order [C] T/609 [D] Written memo

226. गाड़ी सेक्शन में बिना गार्ड के विभाजित हुई पहला भाग को छोड़ने के बाद लाइट इंजन ----- प्राधिकार पर दूसरा भाग को वापस लाने के लिए जाएगा.
[ ] [A] टी/ए..602 [B] सतर्कता आदेश [C] टी/609 [D] लिखित मेमो

226. When a train without Guard is divided in the section, after dropping the first portion, light engine returning to pickup second portion shall proceed on authority
[ ] [A] T/A.602[B] Caution order [C] T/609 [D] Written memo

227. पूर्ण ब्लाक पद्धति में किसी भी गाड़ी को ब्लाक सेकशन छोड़ने क ा अनुमति तब तक नहीं दी जाएगी जब तक कि अगले ब्लाक स्टेशन से -------प्राप्त न हो जाए.

[ ] [A] प्रस्थान प्राधिकार [B] लाइन क्लियर [C] कंसेंट [D] सूचना

227. On Absolute Block System, no train shall be allowed to leave a block station unless, the following has been received from advance Block station
[ ][A] Authority to Proceed [B] line clear [C] consent [D] information

228. लाइन किलयर देने के लिए बहु संकेती सिगनल व्यवस्था पर एफ एस एस के आगे पर्याप्त दूरी (बीओएल) -------- से कम न हो.
[ ] [A] 180 मीटर [B] 120 मीटर [C]400 मीटर [D] 100 मीटर

228. On Absolute block system, the adequate distance (BOL) beyond FSS on M A S for granting line clear shall not be less than
[ ] [A] 180 metres [B] 120 metres[C] 400 metres [D] 100 metres

229. डबल लाइन 'बी' कलास स्टेशन पर बहु संकेती सिगनल व्यवस्था पर लाइन किलयर देने के लिए लाइन -----तक किलयर होनी चाहिए.

[ ][A]एसएलबी [B] बीएसएलबी/सबसे बाहरी सम्मुख पाइंट [C] अड्वांस स्टार्टर [D] स्टार्टर

**229.** At a class 'B' station on D/L equipped with MACLS, to grant line clear, the line must be clear up to

[ ] [A] S L B [B] BSLB / outermost facing points [C] Adv. starter [D] starter

230. सिंगल लाइन 'बी' कलास स्टेशन पर बहु संकेती सिगनल व्यवस्था पर लाइन किलयर देने के लिए लाइन ------ तक किलयर होनी चाहिए.

[ ] [A] एसएलबी [B] सबसे बाहरी सम्मुख पाइंट
[C] अड्वांस स्टार्टर के विपरीत [D] उपर्युक्त में से कोई एक

**230.** At a class 'B' station on S / L equipped with MACLS, to grant line clear, the line must be clear up to

[ ] [A] S L B [B] outermost facing points

[C] Opposite Adv. starter [D] any of the above

231. सी कलास स्टेशन पर लाइन किलयर तब तक न दिया जाए जब तक कि पूरी गाड़ी होम सिगनल के आगे कम से कम 400 मीटर तक पास न कर गई हो और -

[ ] [A] उसकी यात्रा जारी हो [B] आगे की ब्लाक सेक्शन भी क्लियर करें

[C] होम सिगनल लेने की शर्त भी पूरी हो [D] उपर्युक्त सभी

**231.** At a class 'C' station , line clear shall not be given unless, the whole of the last preceding train has passed complete at least 400 metres beyond the Home signal and

[ ] [A] Continuing its journey [B] clears advance block section also

[C] condition for taking home signal also fulfilled [D] all the above

232. आटोमेटिक ब्लाक प्रणाली में ब्लाक स्टेशनों के बीच लाइन, जहां अपेक्षित हो ----- में विभाजित किया है.

[ ] [A] आटोमेटिक ब्लाक सिगनलिंग सेक्शन [B] ब्लाक सेक्शन
[C] स्टेशन सेक्शन [D] उपर्युक्त सभी

232. In automatic block system the line between the block stations, when required, be divided into a series of
[ ] [A] automatic block signalling sections [B] block sections [C] station sections [D] all the above

233. आटोमेटिक सिगनल तब तक आफ स्थिति में नहीं आएगा जब तक कि न केवल अगले आटोमेटिक सिगनल तक बल्कि डबल लाइन पर (कम से कम )-------मीटर की पर्याप्त दूरी तक लाइंन किलयर न हो.

[ ] [A] 180 मीटर [B] 120 मीटर [C]400 मीटर [D] 100 मीटर

233. On D/L , the automatic signal shall not assume OFF position ,unless the line is clear not only up to the next Automatic signal ,but also for an adequate distance of (not less than )
[ ] [A]180 metres [B] 120 metres [C]400 metres [D] 100 metres

234. आटोमेटिक स्टाप सिगनलों की पहचान ----------बोर्ड से की जाती है.

[ ] [A]. A मार्कर [B] प्रदीप्त A मार्कर [C] C मार्कर [D] AB" मार्कर

234. Automatic stop signal is identified by
[ ] [A] 'A' marker [B] Illuminated 'A' marker [C] 'C' marker [D] "AB" marker

235. जब अर्द्ध स्वचालित स्टाप सिगनल, आटोमेटिक सिगनल के रुप में कार्य कर रहा हो तो उसकी पहचान -------बत्ती से की जाती है.
] [A] A मार्कर बोर्ड [B] प्रदीप्त A मार्कर [C] दोनों A &B [D] इनमें से कोई नहीं

235. Semi automatic stop signal when working as automatic stop signal is identified by
[ ] [A] 'A' marker board [B] illuminated 'A' marker [C] both A &B [D] none of these

236. आटोमेटिक सिगनल का सामान्य संकेत ----------है.

[ ] [A] रोकें [B] सावधान [C] आगे बढ़ें [D] अधिक प्रतिबंधित संकेत

236. Normal aspect of Automatic stop signal is
[ ] [A] Stop [B] Attention [C] Proceed [D] Most restrictive aspect

237. स्टेशन प्रबंधक/याता.निरी ----------के लिए सक्षमता प्रमाणपत्र ( आटोमेटिक सेकशन) का करेंगे.

[ ] [A] स्टेशन मास्टर नवीकरण [B] उस स्टेशन के गार्ड [C] स्टेशन मास्टर अैर पाइंट्समैन [D] इनमें से कोई नहीं

**237.** SMR/TI shall renew the competency certificates ( in Automatic section) for
[ ] [A] S Ms [B] Guards of that station

[C] SMs and points men [D] none of these

238. जब लोको पायलट **आन** पर स्वचालित सिगनल पार करता है, --- का सहायक नियम का पालन करेगा

[ ] [A]जब दृश्यता स्पष्ट है 10 किमीप्रघं और रात में 8 किमीप्रघं

[B] जब दृश्यता स्पष्ट है 15किमीप्रघं और जब दृश्यता स्पष्ट नहीं है 8 किमीप्रघं

[C] 10 किमीप्रघं [D] जब दृश्यता स्पष्ट है 15 किमीप्रघं और रात में 10 किमीप्रघं

**238.** When Loco Pilot passes an automatic stop signal at ON, he shall observe speed restriction of
[ ] [A] 10 kmph when view is clear and 8 kmph in night

[B] 15kmph when view is clear and 8 kmph when view is not clear

[C] 10 kmph [D] 15 kmph when view is clear and 10 kmph in night

239. जब आटोमेटिक ब्लाक पद्धति में सिंगल लाइन पर एलएसएस खराब होता है तो गाड़ी के लोको पायलट को ----------दिया जाए .

[ ] [A] पीएलसीटी [B] एलसीटी +टी/ए.912

[C] पीएलसीटी +टी/बीए.912ं [D] टी/369(3बी) + काशन आर्डर

**239.** When LSS fails on single line automatic block system, Loco Pilot shall be given
[ ] [A] P L C T [B] P L C T + T/A 912

[C] PLCT+T/ B 912 [D] T/369(3b) +C.O

240. जब आटोमेटिक ब्लाक पद्धति में डबल लाइन पर एलएसएस खराब होता है तो, गाड़ि के लोको पायलट को ---प्राधिकार दिया जाए.

[ ] [A] पीएलसीटी + काशन आर्डर [B] पीएलसीटी +टी/ए.912
[C] टी/डी.912+T/A.912 [D] टी/369(3बी) + काशन आर्डर

**240.** When LSS fails on double line automatic block system, Loco Pilot shall be given
[ ] [A] P L C T + C.O [B] P L C T + T/A 912

[C] T/D 912 + T/A 912 [D] T / 369(3b) + C.O

241. आटोमेटिक ब्लाक प्रणाली में डबल लाइन पर सिगनलों की लंबी अवधि की खराबी के दौरान, लोको पायलट को दी जाने वाली प्रधिकार हे..

[ ] [A] टी/ डी 602 [B] टी/ डी 912 [C] टी/ सी 602 [D] टी/ बी 912

**241.** During prolonged failure of signals but communications are available on D/L Automatic Block System, the authority given to Loco Pilot is.

[ ] [A] T/ D 602 [B] T/ D 912 [C] T /C 602 [D] T /B 912

242. आटोमेटिक सिगनलिंग में डबल लाइन पर सिगनलों की लंबी अवधि की खराबी के दौरान, जब संचार उपलब्ध हो तो पहली गाड़ी की गति ----------होगी.

[ ] [A] 15 किमीप्रघं [B] एमपीएस [C] 10 किमीप्रघं [D] 25किमीप्रघं

**242.** During prolonged failure of signals but communications are available on D/L Automatic Block System, the speed of first train shall be

[ ] [A] 15 kmph [B] M P S [C] 10 kmph [D] 25 kmph

243. डबल लाइन आटोमेटिक ब्लाक सिगनल पर जब सिगनल और संचार खराब हो तो लोको पायलट को ---------- प्राधिकार दिया जाता है

[ ] [A] टी/ बी 602 [B] टी/ डी 912 [C] टी /सी 602 [D] टी /बी 912

**243.** When signals and communications fail on Double line Automatic Block System, the authority given to the Loco Pilot is

[ ] [A] T/ B 602 [B]T/ D 912 [C]T /C 602 [D] T /B 912

244. डबल लाइन आटोमेटिक ब्लाक सिगनल पर जब सिगनल और संचार खराब होने के दौरान दो गाड़ियों के बीच समय अंतराल ----------मिनट होना चाहिए.

[ ][A] 15 मिनट या सामान्य रनिंग समय जो भी अधिक हो [B] 30 मिनट
[C] 30 मिनट + सामान्य रनिंग समय [D] 30 मिनट या सामान्य रनिंग समय जो भी अधिक हो

**244.** The time interval between two trains during signal and communication failure on DL Automatic Block System shall be

[ ] [A] 15 minutes or normal running time whichever is more

[B] 30 minutes

[C] 30 min+ normal running time

[D] 30 minutes or normal running time whichever is more

245. अवरुद्ध स्वचालित सिगनलिंग सेक्शन में राहत इंजन / गाडी को भेजने का प्राधिकार

[ ] [A] टी / ए 912 [B] टी / बी 912 [C] टी / सी 912 [D] टी / डी 912

**245.** Authority to despatch Relief engine/train into obstructed automatic signalling section is

[ ] [A] T / A 912 [B] T / B 912 [C] T / C 912 [D] T / D 912

246. राहत इंजन ----------किमीप्रघं की प्रतिबंधित गति से आगे बढ़ेगी.

[ ][A] 25किमीप्रघं [B] 15/10 किमीप्रघं [C] सामान्य गति [D]15/8 किमीप्रघं

**246.** Relief loco shall proceed with a restricted speed of

[ ] [A] 25kmph [B] 15 /10 kmph [C] normal speed [D] 15 / 8 kmph

247. एक स्थावर सिगनल, जिसे आटोमेटिक स्टाप सिगनल या मैनुअल स्टाप सिगनल के रुप मे, प्रचालित किया जा सकता है, ----------कहलाता है.

[ ] [A] आटोमेटिक स्टाप सिगनल [B] आटोमेटिक क्षेत्र में मैनुअल स्टाप सिगनल

[C] सेमी आटोमेटिक स्टाप सिगनल [D] होम सिगनल

**247.** Fixed signal which can be operated either as an Automatic stop signal or a manual stop signal, is

[ ] [A] An Automatic stop signal [B]Manual stop signal in automatic territory

[C] A Semi automatic stop signal [D] A Home signal

248. आटोमेटिक सिगनलिंिग क्षेत्र में गेट सिगनल --- द्वारा पहचाना जाता है

[ ] [A] जब फाटक बंद है तो G मार्कर और प्रदीप्त A मार्कर [B] केवल G मार्कर

[C] जब फाटक खुला है G मार्कर और प्रदीप्त A मार्कर

[D] जब फाटक बंद है A मार्कर और प्रदीप्त G मार्कर

**248.** Gate signal in automatic signalling territory is distinguished by

[ ] A) G marker and illuminated A marker when gate is closed

B) only G marker

C) G marker and illuminated A marker when gate is open

D) A marker and illuminated G marker when gate is closed

249. कोई भी व्यक्ति बिजली के ब्लाक उपकरण को तब तक प्रचालित नहीं करेगा जब तक कि उसके पास प्रिंसिपल/क्षेरेप्रसं द्वारा जारी सक्षमता प्रमाण पत्र न हो जो --------अवधि के लिए वैध होना चाहिए.

[ ] [A] 3 वर्ष [B] 5 वर्ष [C] 2वर्ष [D] 7 वर्ष

**249.** No person shall operate the electrical block instruments unless he holds a competency certificate issued by Principal/ZRTI which shall be valid for a period of

[ ] [A] 3 years [B] 5 years [C] 2 years [D] 7 years

250. सिंगल लाइन टोकनरहित सेकशन / डबल लाइन सेकशन पर सामान्य प्रस्थान प्राधिकार ---है.

[ ] [A] एलएसएस की **आफ** स्थिति [B]पीएलसीटी [C] पीएलसीटी या टोकन [D]स्टेशन मास्टर द्वारा हस्ताक्षरित कोई भी दस्तावेज

**250.** Normal authority to proceed on Single Line token less sections/Double line sections

[ ] [A] 'OFF' position of LSS [B] PLCT

[C] PLCT or token [D] Any written document signed by SM

251. बीपीएसी उपलब्ध कराए गए और कार्य कर रहे स्टेशनों में आन ड्यूटी स्टेशन माटर,----- से गाड़ी को ब्लाक सेक्शन से बाहर भेजने का सिगनल देगा.

[ ] [A] बीपीएसी का स्प्ष्ट संकेत देखने से [B] गार्ड से प्राइवेट नंबर प्राप्त करने से

[C] पाइंट्समैन से प्राइवेट नंबर प्राप्त करने से [D] एलआईटी बजर सुनने से

**251.** At stations provided with block proven axle counter (BPAC) and functioning, The Station Master on duty shall send the "train out of block section" signal only by

[ ] [A] seeing clear indication of BPAC [B] getting private number from guard

[C] getting private number from points man [D] listening to LVT buzzer

252. स्टेशन जहां बी पी ए सी उपलब्ध नहीं है, गाड़ी का गार्ड फाउलिंग मार्क क्लियर पर अंतिम वाहन खड़ा रहना सत्यापित करने के बाद स्टेशन मास्टर को----- सूचित करेगा

[ ] [A] दिन में हाथ हिलाकर [B] वॉकी-टॉकी के माध्यम से P.N आदान प्रदान कर [C] रात में सफेद बत्ती दिखाकर [D] इनमें से कोई नहें

**252.** At stations where BPAC is not provided, the Guard of the train, after verifying the last vehicle is standing clear of the fouling mark, shall inform Station Master by

[ ] [A] waving arm by day [B] Exchange P N through walkie-talkie

[C] Showing white light by night [D] none of these

253. अनुरक्षण कार्य करने के लिए एक विभाग से अधिक विभाग एक भाग को ब्लाक करना यह कह जाएगा.

[ ] [A] पावर ब्लाक [B] इंटिग्रेटेड ब्लाक [C] शैडो ब्लाक [D] कोई विशिष्ट नाम नहीं

**253.** Blocking of a portion of line for maintenance work by more than one department is called

[ ] [A] power block [B] integrated block

[C] shadow block [D] no specific name

254.दो ब्लाक स्टेशनों के बीच में ब्लाक सेक्शन के दोनों सिरों से एक साथ प्राप्त किया हुआ ब्लाक

[ ] [A] पावर ब्लाक [B] समाकलित ब्लाक [C] शैडो ब्लाक [D] डबल ब्लाक

**254.** Block availed from either end of the block section, between two block stations simultaneously, is known as

[ ] [A] Power block [B] Integrated block [C] Shadow block [D] Double block

255.कोटि III के अंतर्गत आने वाले इंजीनियरी कार्य के लिए यह आवश्यक है.

[ ] [A] स्टेशन मास्टर को केवल सूचना [B] लाइन ब्लाक

[C] मेटीरियल ब्लाक [D] सूचना देने की आवश्यकता नहीं है.

**255.** Engineering works come under Category – I I I requires
[ ] [A] only intimation to SM [B] line block

[C] material block [D] Intimation not necessary

256.इंजीनियरी शाखा , परिचालन शाखा के सात परिपत्र सूचना जारी करने की व्यवस्था करेगा जो ---------------के लिए वैध होगा.
[ ] [A] एक वर्ष [B] 48 घंटे [C] 3 माह [D] छह माह

**256.** Engineering branch will arrange with the Operating branch for the issue of a circular notice, which shall be valid for
[ ] [A] one year [B] 48 hours [C] 3 months [D] six months

257.परिपत्र सूचना जारी करने के बाद मंडल परिचालन प्रबंधक (DOM) ----------दिन पहले सर्व संबंधित को संदेश जारी करेगा.
[ ] [A] एकवर्ष [B] 2 दिन [C] 3 माह [D] छह माह

**257.** After issuing circular notice, atleast how many days in advance, the DOM will issue an all concerned message
[ ] [A] one year [B] 2 days [C] 3 months [D] six months

258.इंजीनियरी पदाधिकारी,जो --से कम ओहदे का न हो,फील्ड टेलीफोन पर ब्लाक प्राप्त करने के लिए प्राधिकृत किया जाएगा.
[ ][A] वरि.मंडल इंजीनियर [B] रेलपथ निरीक्षक [C] मंडल इंजीनियर [D] सहायक इंजीनियर

**258.** Authorized engineering official to obtain blocks on the field telephone, who shall not be below the rank of
[ ] [A] Sr.DEN [B] PWI [C] DEN [D]AEN

259.यदि एक से अधिक टावर कार को ब्लाक सेक्शन में भेजा जाना है और इनको उस स्टेशन में वापस ले लिया जाना है, जहां से आरंभ हुई हों, तो पहले टीटीएम/टावर कार के लिए प्राधिकार बाद वाले टावर कार के लिए प्राधिकार ----है .

[ ] [A] टी/1708, काशन आर्डर [B] टी/ए.1708, काशन आर्डर
[C] काशन आर्डर टी/ 1708 [D] काशन आर्डर टी/ए 1708,

**259.** When more than one T/CAR is programmed to go to block section and return to the same station the authorities for first T/CAR and subsequent T/CAR are
[ ] [A] T/1708, CAUTION ORDER [B] T/A.1708, CAUTION ORDER

[C] CAUTION ORDER, T/1708 [D] CAUTION ORDER, T/ A1708

260.यदि एक से अधिक टावर कार को ब्लाक सेक्शन में भेजा जाना है और इनको अगले स्टेशन में जाना है, तो पहले टावर कार के लिए प्राधिकार और अंतिम टावर कार के लिए प्राधिकार ---------/ ----------है

[ ] [A] टी/1708, काशन आर्डर [B] टी/ए.1708, काशन आर्डर [C] काशन आर्डर, टी/1708 [D] काशन आर्डर, टी/ए.1708,

**260.** When more than one T/CAR is programmed to go in the same block section and clear to the next station the authorities for first T/CAR and last T/CAR are
[ ] [A] T/1708, CAUTION ORDER [B] T/A.1708, CAUTION ORDER

[C] CAUTION ORDER, T/1708 [D] CAUTION ORDER, T/A1708

261.यदि एक से अधिक टीटीएम को ब्लाक सेक्शन में भेजा जाना है और इनको उसी स्टेशन को वापस आना है, तो पहले टीटीएमकार के लिए प्राधिकार और बाद वाले टीटीएम/टावर कार के लिए प्राधिकार ----------/ ----------है

[ ] [A] टी/465, काशन आर्डर [B] टी/ए 465, काशन आर्डर [C] काशन आर्डर टी/465 [D] काशन आर्डर टी/ए 465,

**261.** When more than one TTM is programmed to go in the same block section and return to the same station the authorities for first TTM and subsequent TTM are
[ ] [A] T/465, CAUTION ORDER [B] T/A.465, CAUTION ORDER

[C] CAUTION ORDER, T/465 [D] CAUTION ORDER, T/A 465

262.यदि एक से अधिक टीटीएम को ब्लाक सेक्शन में भेजा जाना है और इनको अगले स्टेशन में जाना है, तो पहले टीटीएम के लिए प्राधिकार और अंतिम टीटीएम के लिए प्राधिकार ----------/ ----------है

[ ] [A] टी/465, काशान आर्डर [B] टी/ए 465, काशान आर्डर [C] काशान आर्डर टी/465 [D] काशान आर्डर टी/ए 465

**262.** When more than one TTM is programmed to go in the same block section and clear to the next station the authorities for first TTM and last TTM are
] [A] T/465, CAUTION ORDER [B] T/A.465, CAUTION ORDER

[C] CAUTION ORDER, T/465 [D] CAUTION ORDER, T/A 465

263. ब्लॉक के दौरान सेक्शन के कार्य में जाने और उसी स्टेशन को वापस आने के लिए टीटीएम को दिया जाने वाला प्राधिकार----------है.

[ ] [A]पीएलसीटी [B] कॉशन ऑर्डर [C] टी/465 [D] टी/ए 465

**263.** Authority given to the TTM to go into the section work and return to the same station during block is
[ ] [A] P L C T[B] CAUTION ORDER [C] T/465 [D] T/A 465

264. ब्लॉक के दौरान सेक्शन के कार्य में जाने और अगले स्टेशन को जाने के लिए टीटीएम को दिया जाने वाला प्राधिकार----------है.

[ ] [A]पीएलसीटी [B] कॉशन ऑर्डर [C] टी/465 [D] टी/ए 465

**264.** Authority given to the TTM to go into the section work and proceed to the next station during block is
[ ] [A] PLCT [B] CAUTION ORDER [C] T/465 [D] T/A.465

265.यदि सामग्री गाड़ी, ट्रैक मशीन और टावर वैगन को उसी ब्लाक सेक्शन में कार्य करने के लिए भेजा जाता है तो उनके बीच रखी जाने वाली दूरी -----मीटर होनी चाहिए.

[ ] A] 100 मीटर [B] 120 मीटर [C]150 मीटर [D] 1000 मीटर

**265.** When material train, TTM and Tower wagon are permitted in the same block section to work, the distance to be kept between them shall be
[ ] [A] 100metres [B] 120metres [C] 150metres [D] 1000metres

266. लाइन ब्लाक या समाकलित ब्लाक या शैडो ब्लाक के दौरान अनुमत सामग्री गाड़ियों की संख्या -------है.

[ ] [A] 1 [B]2 [C] 3 [D] कोई भी संख्या

**266.** No. of material trains permitted during the line block / integrated block / shadow block is / are

[ ] [A] 1 [B]2 [C] 3 [D] Any number

267. लाइन ब्लाक के दौरान सही लाइन पर आने वाली यूनिट को लेने के लिए *पहली यूनिट* को ---------प्राधिकार पर लिया जाए

[ ] [A] होम सिगनल [B] पायलट इन मेमो [C] टी/509 [D] पीएचएस

**267.** During line block, to receive the units coming on right line, authority to receive the first unit

[ ] [A] Home Signal [B] pilot in memo [C] T/509 [D] P H S

268.लाइन ब्लाक के दौरान, सहीं लाइन पर आने वाले यूनिटों को लेने के लिए द्वितीय और बाद के यूनिटों को लेने लिए प्राधिकार----------है.

[ ][A] होम सिगनल को ऑफ में लेना [B] पायलट इन मेमो
[C] बुलावा सिगनल या टी /509 [D] पीएचएस

**268.** During line block, to receive the units coming on right line, authority to receive the second and subsequent units is

[ ] [A] take off Home Signal [B] pilot in memo
[C] calling on signal or T/509 [D] P H S

269.लाइन ब्लाक के दौरान यदि यूनिट गलत लाइन पर आ रही हो तो यूनिटों को ------- पर लिया जाए.

[ ][A] होम सिगनल [B] पायलट इन मेमो [C]बुलावा सिगनल [D] पीएचएस

**269.** During line block, the units are coming on wrong line, shall be received on

[A] Home Signal [B] pilot in memo [C]Calling on signal [D] P H S

270.पटरी बिछाना या फिर से गर्डर डालने जैसा प्रमुख कार्य चल रहा हो, तो डबल लाइन सेकशन के बगल वाली लाइन पर ----------किमीप्रघं की गति प्रतिबंध का पालन किया जाए.

[ ] [A] 30 किमीप्रघं [B] 40 किमीप्रघं [C] 50 किमीप्रघं [D] एकदम रुक जाए और आगे बढ़े.

**270.** When major work such as relaying and re-girdering is in progress , a speed restriction that shall be observed on the adjoining line in double line section, is
[ ] [A] 30 kmph [B] 40 kmph [C] 50 kmph [D] stop dead and proceed

271.पानी का स्तर गिट्टी स्तर से अधिक हो, लेकिन पटरी स्तर से नीचे हो, तो प्रत्येक गाड़ी को निमनुसार अनुमति दिया जाए.
[ ] [A] गाड़ी को अनुमति न दें
[B]गाड़ी को रोकें और पानी का स्तर कम होने के बाद गाड़ी को आगे बढ़ाएंं.
[C] गाड़ी को रोकें और पी डब्लयूआई द्वारा पायलट की जाए
[D] गाड़ी आने से पहले दो व्यक्ति स्लीपरों के दोनों सिरों पर एक -एक बराबर में चलें

**271.** When water rises above the ballast level but below rail level, train should be allowed as per following
[ ] [ A] Train shall not be allowed [B] Train must stop and proceed after the velocity of the water is reduced.

[C] Train must stop and be piloted by the PWI.

[D] Track should be walked over by two men abreast one at either end of the sleepers before the train

272. जब पटरी के ऊपर से पानी बहता हो ,

[ ] [ [A]] गाड़ी को अनुमति न दें

[B] गाड़ी को रोकें और पानी का स्तर कम होने के बाद गाड़ी को आगे बढ़ाएंं.

[C] गाड़ी को रोकें और पी डब्लयूआई द्वारा पायलट की जाए

[D] गाड़ी को रोकें और गैंगमैन द्वारा पायलट की जाए

**272.** When water overflows above the rails –
[ ] [A] Train shall not be allowed

[B]Train must stop and proceed after the velocity of the water is reduced.

[C] Train must stop and be piloted by the PWI.

[D] Train must stop and be piloted by gang man

273. रेल परिपथित क्षेत्र में, ट्राली में ------ हो

[ ] [A] हैंड ब्रेक [B] ब्रेक पावर प्रमाण पत्र [C]इन्सुलेशन [D] इनमें से कोई नहीं

**273.** In track circuited areas, trolleys shall have

[ ] [A] hand brakes [B] brake power certificate [C] insulation [D] none of these

274. टोकन रहित सेकशन में स्वतंत्र मोटर ट्राली के संचालन के लिए प्रस्थान प्राधिकार के रुप में ---------दिया जाता है.

[ ] [A] पीएलसीटी [B] टी/465 [C] टी/1525 [D] टी/ए.1525

**274.** In token less section, ATP for the movement of independent motor trolley is

[ ] [A] PLCT [B] T/465 [C] T/1525 [D] T/A.1525

275. डबल लाइन पर स्टेशन मास्टर, मोटर ट्राली के आने के बाद ----------के साथ पिछले स्टेशन के स्टेशन मास्टर को सूचित करेगा.

[ ] [A] प्रइवेट नंबर देने [B] ब्लाक उपकरण को टीओएल से बंद लाइन की स्थिति में रखना

[C] दोनों [A] & B [D] इनमें से कोई नहीं

**275.** On Double line, after the arrival of motor trolley, Station Master shall inform the Station Master of the rear station by

[ ] [A]giving P.N [B] Putting Block instrument from TOL to 'Line closed' position [C] both ‘A’ and ‘B’

[D] none

276. जब मोटर ट्राली , पूरी गाड़ी या इंजन या दूसरी मोटर ट्राली के पीछे जा रही हो तो प्रस्थान प्राधिकार के रुप में ----------प्राधिकार दिया जाता है.

[ ] [A] टी/1525 [B]टी/ए.1525 [C] लाइन क्लियर के बिना ATP [D] पीएलसीटी

**276.** When motor trolley is following a full length train or engine or another motor trolley, authority given as A T P is

[ ] [A] T/1525 [B]T/A 1525 [C] ATP with out Line Clear [D] P L C T

277. जब मोटर ट्राली किसी गाड़ी के पीछे जा रही हो तो उस गाड़ी के ---रुप में माना जाता है.

[ ] [A]स्वतंत्र गाड़ी [B] उस गाड़ी का अंतिम वाहन
[C] उस गाड़ी का प्रथम वाहन [D] इनमें से कोई नहीं

**277.** When a Motor Trolley is following a train, it is treated as
[ ] [A] an Independent Train [B] Last vehicle of that train
[C] first vehicle of that train [D] none of these

278. ट्राली/लारी नोटिस फार्म सं. ----------में दी जाती है.

[ ] [A] टी/1518 [B] परिपत्र सूचना [C] टी/1525 [D] टी/ए.1525

**278.** Trolley/Lorry notice :
[ ] [A] T/1518 [B] Circular Notice [C] T/1525 [D] T/A 1525

279. रात के समय, लारी को ---------- के कार्यचालन के नियमों के अनुसार चलाया जाए.

[ ] [A] गाड़ियों का कार्यचालन [B] रेल डॉलियां कार्यचालन
[C] पुश ट्रॉली कार्यचालन [D] इनमें से कोई नहीं

**279.** During night , a lorry shall always be worked under the rules of
[ ] [A] Trains working [B] rail dolly working
[C] Push Trolley working [D] none of these

280. ----स्वनोदित वाहन है, जिसे रेलपथ के साथ-साथ सड़क पर भी चलाया जा सकता है.

[ ] [A] TTM [B] RRV [C] SPARMV [D] SPART

**280.** Self propelled vehicle which can run on railway track as well as on road , is
[ ] [A] T T M [B] R R V [C] S P A R M V [D] S P A R T

281. रेल एवं सडक वाहन की सेक्शन के मध्य में "आन" ट्रैकिंग और "आफ" ट्रैकिंग ----------- से की जाए.

[ ] [A] स्तर ढाल [B] केवल समपार
[C] कहीं पर भी [D] JE/SE P.way के प्रभारी के विवेकानुसार

**281.** On tracking' and `off tracking' of RRV in mid-section shall be done from
[ ] [A] level gradient [B] level crossings only

[C] any where [D] as per discretion of In-charge JE/SE P.way

282. न्यूट्रल सेक्शन दो निरंतर लाइनों के बीच --- है

[ ] [A] सेक्शन इन्सुलेटर [B] ब्लाक स्टेशन [C] उप स्टेशन [D] ओट एच ई डिपो

**282.** Neutral section lies between two consecutive

[ ] [A] section insulators [B] block stations [C] sub stations [D] OHE depots

283. डेंजर जोन का तात्पर्य ऐसा क्षेत्र जो लाइव उपस्कर के ---------मीटर के भीतर हो.

[ ] [A] 45 मीटर [B] 2 मीटर [C] 2.5 मीटर [D] 30 मीटर

**283.** "Danger Zone" means the zone lying around any live equipment within a radius of

[ ] [A] 45 metres [B] 2 metres [C] 2.5 metres [D] 30 metres

284. ओएचई में कोई खराब/अनियमितता देखने पर सभी गाड़ियों के इंजन कर्मीदल --- को रिपोर्ट करेंगे

[ ] [A] टीपीसी [B] टीएलसी [C] सेक्शन नियंत्रक [D] स्टेशन मास्टर

**284.** Engine crew of all trains shall report any defect/irregularity noticed in the OHE to

[ ] [A] T P C [B] T L C [C] S C O R [D] S M

285. आइसोलेटर को प्रचालित करने के लिए मंडल विद्युत इंजीनियर (टीआरडी) द्वारा स्टेशन मास्टर को जारी सक्षमता प्रमाणपत्र (आपात स्थिति में )-------वर्षों के लिए वैध होगा.

[ ] [A] 2 वर्ष [B] 3 वर्ष [C]4 वर्ष [D] 5 वर्ष

**285.** The competency certificate issued by DEE (Tr . D) to S M for operating the isolators ( in emergency ) is valid for

[ ] [A] 2 years [B] 3 years [C]4 years [D] 5years

286. जब गाड़ी में जोड़ते हुए टावर मालडिब्बा चलाया जाता है, गाड़ी को जोड़ा जाता है, तो इसे ----------के भीतर लगाया जाए

[ ] [A] गाड़ी इंजन [ B] पीछे का ब्रेक यान [C] छठा वाहन [D] कहीं पर भी

**286.** When ever a tower wagon is to be moved by a train, it should be inside the

[ ]A] Train engine [B] Rear B / V [C] Sixth Vehicle [D] Any where

287. टावर कार का अधिकतम गति

[ ] [A] 40किमीप्रघं [B]उस पर स्टेंसिल किए अनुसार [C]30किमीप्रघं [D]15किमीप्रघं

**287.** The maximum speed of tower car shall be

[ ] [A] 40kmph [B]as stenciled on it [C]30kmph [D]15kmph

288. जब हेल्थी सेकशन को अस्थाई तौर पर आइसोलेट किया जाता है और फिर से चालू किया जाता है, यदि कोई भी गाड़ी खराब सेकशन में प्रवेश किया हे हेल्थी सेकशन में पहली गाड़ी की गति (दिन / रात ) में

[ ] [A] 25/10 किमीप्रघं [B] 20/10 किमीप्रघं [C] 40/40 किमीप्रघं[D] 60/30 किमीप्रघं

**288.** When healthy section is temporarily isolated and re-energised, if train entered faulty section, the speed of the first train by ( day / night ) shall be

[ ] [A] 25/10 kmph [B] 20/10 kmph [C] 40/40 kmph [D] 60/30 kmph

289. पावर ब्लाक के दौरान केवल ----------गाड़ियों को चलाने की अनुमति है.

[ ] [A] डीज़ल से चलने वाली [B] विद्यत से चलने वाली [C] एम ईएमयू [D] कोई भी गाड़ी को अनुमत नहीं है

**289.** During power block, the trains that are allowed to run.

[ ] [A]diesel traction hauled [B] electric traction hauled [C] M E M U [D] no train permitted

290. अनुमति, जिसे प्रधिकृत व्यक्ति से गाड़ी के गार्ड ओडीसी प्राप्त करता है, सेक्शन (विद्यतीकृत) में प्रवेश करने के लिए है

[ ] [A] मुख्य नियंत्रक से अनुमति [B] टीपीसी से अनुमति

[C] ट्राली/लॉरी नोटिस [D] कार्य करने के लिए अनुमति

**290.** The permission, the Guard of the train with the ODC receives from the authorized person, to enter (in electrified section ) is

[ ] [A] permission from CHC [B] permission from TPC

[C] Trolly / Lorry notice [D] permit to work

291."नोटिस स्टेशनों" में, जहां मंडल सतर्कता आदेश जारी किया जाएगा --- में विनिर्दिष्ट है.

[ ] [A] कार्यचालन समयसारणी [B] रेक लिंक [C] सीटीआर [D] ढाल चार्ट

**291.** The notice stations, where divisional caution order shall be issued are specified in

[ ] [A] Working time table [B] rake link [C] CTR [D] Gradient chart

292.सतर्कता आदेश में संबंधित स्टेशन का नाम पूरा लिखा जाएगा, -------- का उपयोग न किया जाए.

[ [A] शब्दों [B] कोड [C] बड़े अक्षर [D] अंकों

**292.** In the Caution order, names of the stations concerned should be written in full, t bunot

[ [A] letters [B] Codes [C] Capitals [D] Numerals

293.सतर्कता आदेश में ----------क्रम में प्रचलित सभी गति प्रतिबंधों का उल्लेख होना चाहिए.

[ ] [A] जियोलाजिकल क्रम में [B] ग्रेडिएंट वारं

[C] जियोग्राफिकल क्रम में [D] कंट्रोल सेक्शन वार

**293.** The caution order should have all the speed restrictions in force in

[ ] [A] geological order [B] gradient wise

[C] Geographical order [D] control section wise

294 स्टेशन मास्टर, सतर्कता आदेश रजिस्टर में भौगोलिक क्रम में सतर्कता आदेश को -------- अग्रेनीत करेगा.

[ ] [A] प्रत्येक शिफ्ट [B] प्रत्येक सोमवार 00.00 बजे

[C] प्रतिदिन 16.00बजे [D] प्रतिदिन 00.00 बजे

**294.** SM shall bring forward the caution orders in the caution order register ( in geographical order )

[ ] [A] Every Shift [B] Every Monday at 00.00 hours

[C] Everyday at 16.00hrs [D] Everyday 00.00 hrs

295. सतर्कता आदेश के रिकार्ड पन्नों को --- की अवधि के लिए सुरक्षित रखना होगा

[ ] [A] छह माह [B] 3 माह [C] वर्ष [D] 3वर्ष

**295.** Record foils of the caution orders shall be preserved for a period of
[ ] [A] Six Months [B] 3 Months [C] Year [D] 3Years

296.टी वी यू का पूरा रुप है----------

[ ] [A] गाड़ी यान यूनिट [B] रेलपथ वाहन यूनिट
[C] गाड़ी वाहन यूनिट [D]यातायात वाहन यूनिट

**296.** Full form of T V U
[ ] [A] Train van unit [B] track vehicle unit

[C] Train vehicle unit [D]traffic vehicle unit

297.स्टेशन के आउटरमोस्ट स्टाप सिगनल के भीतर स्थित समपार फाटक ---------- के अधीन होता है.
[ ][A] सेक्शन इंजीनियर (सिवदू) [B]सेक्शन इंजीनियर (रेलपथ) [C]स्टेशन मास्टर [D]गेटमैन

**297.** Level crossing gates situated within outermost stop signals of a station are under the control of
[ ] [A] S E (S&T) [B] S E (PWAY) [C] S M
[D] Gate Man

298.इंजीनियरी समपार (अंर्पाशित ) फाटक अगले स्टेशन को संयोजित है, पर यदि रनिंग समय 10 मिनट से कम हो तो स्टेशन मास्टर, फाटकवाले को गाड़ी का विवरण ----------देगा.

[ ][A] लाइन क्लियर प्रदान करने से पहले [B]ब्लाक सेक्शन सिगनल में गाड़ी प्रवेश करने के बाद

[C] जब गाड़ी दिखाई देती है [D] सात मिनट पहले

**298.** At engineering level crossing ( interlocked ) gate connected to station in advance, if the running time is less than 10 minutes, the Station Master will advise the gateman, the particulars of the train
[ ] [A] before granting line clear [B] after getting “train entering block section” signal

[C] when train sighted [D] before seven minutes

299.जब समपार फाटक की सुरक्षा करने वाला सिगनल खराब हो तो अंतरपाशित समपार फाटक को ---------------माना जाए.

[ ] [A]खराब सिगनल के साथ अंतर्पाशित [B]गैर अंतर्पाशित

[C]फाटक नियमों का पालन करने के लिए सतर्कता आदेश जारी करें [D] इनमें से कोई नहीं

**299.** When the signal protecting the interlocked level crossing gate becomes defective the gate treated as

[ ] [A] inter locked with signal defective [B] non inter locked

[C] simply issue C.O to observe gate rules

[D]none of above

300.इंजीनियरी/यातायात गैर अंतरपाशित समपार फाटक पर, स्टेशन मास्टर, फाटकवाले को गाड़ी का विवरण ------------------के पहले देगा.

[ ] [A] लाइन क्लियर प्रदान करने /प्राप्त करने से पहले

[B] गाड़ी ब्लाक सेक्शन में प्रवेश करने के तुरंत बाद

[C] यदि रनिंग समय 10 मिनट से अधिक हो तो 7 मिनट से पहले

[D] यदि रनिंग समय 10 मिनट से कमî हो तो 7 मिनट से पहले.

**300.** At engineering/traffic level crossing non interlocked gates , S M shall advise Gateman ,about the particulars of the train

[ ] [A] before granting/obtaining line clear

[B] Immediately after train entering block section

[C] before seven minutes if running time is more than 10 minutes

[D] before seven minutes if running time is less than 10 minutes.

301.समपार फाटक के साथ संचार भंग होने पर, स्टेशन मास्टर सभी गाड़ियों को रोकेगा और ---जारी करेगा

[ ] [A] सावधान के लिए विशेष सतर्कता आदेश [B]प्राधिकार टी/369(3बी)

[C]अवरुद्ध के रुप में मानते हुए टी/ए.602 [D]फाटक नियमों को पालन करने के लिए सतर्कता आदेश

**301.** If the communication with L C Gate fails, SM shall stop all trains and issue

[ ] [A] special caution to be alert [B] Authority T/369(3b)

[C] T/A.602 treating as obstruction [D] caution order to observe gate rules

302.फाटकवाले के साथ प्राइवेट नंबर के आदान-प्रदान के बाद यदि योजना में परिवर्तन के कारण गाड़ी नहीं रवाना हुई हो तो स्टेशन मास्टर ----------के साथ फाटकवाले को गाड़ी संचलन के रद्दकरण के बारे में सूचित करेगा.

[ ] [A] प्राइवेट नंबर [B] लिखित प्राधिकार [C] मौखिक सूचना [D] इनमें से कोई नहीं

**302.** After exchanging PN with gate man, due to change in planning, SM shall inform gate man about cancellation of train movement supported by

[ ] [A] Private Number [B] written authority [C] oral advice [D] None of these

303.गैर अंतर्पाशित कार्यचालन के दौरान कर्मचारियों को इस आशय में कि वे गाड़ी संचालन अनुदेशों को समझ गए हैं, ----------रजिस्टर में हस्ताक्षर करने होंगे.

[ ] [A] आश्वासन रजिस्टर [B] परिपत्र सूचना

[C] विशेष गैर अंतर्पाशित कार्यचालन अनुदेशध [D] इनमें से कोई नहीं

**303.** The register that staff should also sign, in token of having understood the train working instructions during NI working.

[ ] [A] Assurance Register [B] Circular notice

[C] Special NI working instructions [D] none of these

304.गाड़ियों के अप्रत्यक्ष प्रवेश के लिए बिना मार्ग संकेतक के एक सामान्य (कामन) गैर अंतर्पाशित निकट (होम) सिगनल पर ----------की व्यवस्था की जानी चाहिए.

[ ] [A] रुके & सतर्कता संकेत [B] रुके & आगे बढ़ो संकेत

[C] सतर्कता संकेत से आगे बढ़ो [D]कोई संकेत नहीं

**304.** A common N I Home signal provided for any indirect reception of trains, with only

[ ] [A] stop & caution aspects [B] stop& proceed aspect

[C] Proceed with caution aspect [D] No aspect at all

305.सभी गाड़ियों को प्रथम रोक सिगनल पर रोका जाए और इसके बाद ----कि.मी.प्र.घं. की गति से सावधानीपूर्वक स्टेशन में प्रवेश करने (सिगनल को आफ करते हुए) की अनुमति दी जाए.
[ ] [A] अंतर्पाशन के मानकों के अनुसार [B] 20 किमीप्रघं [C] 15 किमीप्रघं [D] 30 किमीप्रघं

**305.** During non interlocking working, all trains must be brought to a stop at the FSS and then allowed to enter (taking off signals) cautiously at speed not exceeding
[ ] [A] As per standard of interlocking [B] 20 kmph [C] 15 kmph [D] 30 kmph

306.गैर-अंतरपाशित कार्यचालन के दौरान लोको पायलट आउटरमोस्ट फेसिंग पाइंट को तब तक पार नहीं करेगा, भले ही सिगनल आफ किए गए हों, जब तक कि उसे पाइंट पर ----------प्राप्त नहीं होता है.
[ ] [A] पाइंट्स पर सतर्कता आदेश [B]पाइंट्स पर पी एच एस
[C] टी/369(3बी) [D] इनमें से कोई नहीं

**306.** During NI working, the LP shall not pass the outermost facing points even though signals are taken off unless he also receives.
[ ] [A] caution order at points [B] PHS at points [C] T/369(3b) [D] none of these

307.गैर-अंतरपाशित कार्यचालन के दौरान गुमटी के प्रभारी सस्टेमा/गार्ड/स्विचमैन सिगनल --------के लिए जिम्मेदार होगा
[ ] [A] सबसे बाहरी सम्मुख पाइंट पर पीएचएस का आदान प्रदान
[B] पाइंटों का सही सेटिंग, क्लैंपिंग और पैड लॉक करना
[C] जब गाडी होम सिगनल पर रुकेगी तब सिगनलों को आफ में लेने के लिए अनुमति
[D] उपर्युक्त सभी

**307.** During NI working the ASM/Guard/SWM in charge of the goomties shall be responsible for
[ ] [A] exchanging PHS at outermost facing point
[B] correct setting, clamping and pad locking of points
[C] allowing to take off signals when train stopped at the Home signal
[D] All the above

308.निम्नलिखित अवसरों पर रेलवे लाइन की पेट्रोलिंग की जाती है

[ ] [A] रात या दिन के दौरान अचानक आंधी या तूफान के समय

[B]नागरिक अस्तव्यस्त के दौरान सुरक्षा पेट्रोलिंग

[C] मानसून के समय

[D] उपर्युक्त में से कोई एक

**308.** Patrolling of railway line is done on following occasions.

[ ] [A] In the event of sudden storm or hurricane during day or night

[B] Security patrolling during civil disorders

[C] Monsoon time

[D] any one of the above.

309. पेट्रोल चार्टों को ------- द्वारा जारी किया जाता है.

[ ] [A] रेलपथ निरीक्षक [B] मंडल इंजीनियर
[C] स्टेशन मास्टर [D] रेलपथ निरीक्षक &यातायात निरीक्षक

**309.** Patrol charts are issued by

[ ] [A] PWI [B] DEN [C] SM [D] PWI &TI

310.रात्रि पेट्रोलमैन का नाम, आगमन और प्रस्थान समय स्टेशन मास्टर द्वारा ----- में रिकार्ड किया जायेगा

[ ] [A] बीट पुस्तक [B] गाड़ी सिगनल रजिस्टर [C] स्टेशन डायरी [D]उपर्युक्त सभी

**310.** Name of night patrolman with arrival and departure time shall be recorded by SM in

[ ] [A] Beat book [B] Train signal register [C] Station diary [D] All the above

311. यदि निर्धारित आगमन समय के बाद 15मिनट के बाद भी पेट्रोलमैन वापस न आए, तो स्टेशन मास्टर गाड़ी को रोक देगा और ------किमीप्रघं की प्रतिबंधित गति के लिए सतर्कता आदेश जारी करेगा.

[ ] [A] 40 किमीप्रघं [B] विशेष. सतर्कता आदेश
[C] एकदम रुक जाए और 10किमीप्रघं [D] एकदम रुक जाए और 15किमीप्रघं

**311.** If the night patrolman does not turn up even after 15 minutes beyond the schedule arrival time, SM shall stop all the trains and issue caution order restricting the speed to

[ ] [A] 40 kmph [B] Special Caution

[C] stop dead and 10kmph [D] stop dead and 15kmph

312. स्टेशन पटाखा रजिस्टर में ----------भाग शामिल होते हैं.

[ ] [A] 3 भाग [B] 4 भाग [C] 5 भाग [D] 12 अध्याय

**312.** Station Detonator Register contains

[ ] [A] 3 parts [B] 4 parts [C] 5 parts [D] 12 chapters

313. समय-समय पर स्टेशन पर तैनात कोहरा सिगनलमैनों के विवरण स्टेशन पटाखा रजिस्टर के ----------भाग में दर्ज किए जाते हैं.

[ ] [A] भाग -I [B] भाग-III [C] भाग-II [D] भाग-IV

**313.** In Station Detonator Register, particulars of Fog Signal Men posted at the station from time to time shall be recorded in the

[ ] A] part-I [B] part-III [C] part-II [D] part-IV

314. मालगाड़ी द्वारा अधिकतम अनुमत विस्फोटक से लदे मालडिब्बों की संख्या

[ ] [A] तीन [B]पांच [C] दस [D] कोई भी संख्या

**314.** Maximum number of wagons containing explosives permitted by goods trains is

[ ] [A] Three [B] Five [C] Ten [D] any number

315. जब मालगाड़ी में विस्फोटक से लदा मालडिब्बा लगाया जाता हो, तो इंजन से सहायक मालडिब्बां के रुप में न्यूनतम ----------मालडिब्बों को लगाया जाता है.

[ ] [A] तीन [B]पांच [C] दस [D] एक

**315.** Minimum number of wagons to be given as support wagons from Loco when wagons containing explosives are attached by Goods Train are

[ ] [A] three [B] five [C] ten [D] one

316. जब गाड़ी द्वारा विस्फोटक लगाया जाता है, तो ब्रेकयान /यात्री डिब्बों /अन्य ज्वलनशील से सहायक मालडिब्बे के रुप में न्यूनतम ----------मालडिब्बों को लगाया जाता है.

[ ] [A] तीन [B]पांच [C] दस [D] एक

**316.** Minimum number of wagons required to be given as support wagons from B V / Passenger coach / other inflammables when explosives are carried by a train

[ ] [A] three [B] five [C] ten [D] one

317. गाडी को निष्क्रिय (डेड) इंजन लगाने के लिए, योग्य प्रमाणपत्र आवश्यक है, जो ---------- ----------द्वारा जारी किया जाएगा.

[ ] [A] सेक्शन इंजीनियर [B] पावर लियंत्रक
[C] लोको निरीक्ष् क [D] उपर्युक्त मे कोई एक

**317.** To attach a dead engine to a train, a certificate of 'fit to run' is required, which shall be issued by

[ ] [A] Section Engineer [B] Power controller
[C] Loco Inspector [D] any one of the above

318. माल और यात्री गाडी से जुडे निष्क्रिय (डेड) इंजन की मार्ग रक्षा आवश्यक नहीं है, यदि

[ ] [A] ब्रेक्स पूर्ण रूप से परिचालित हो [B] गाडी इंजन के आगे जुडी हो [C] दोनों A और B [D] उपर्युक्त में से कोई नहीं

**318.** Escorting of dead locomotive attached to freight and passenger carrying trains is not necessary

A) the brakes are fully operational B). attached next to the Train Engine
C).both A & B D). None of the above

319. यात्री गाड़ी में जोड़े जाने वाले निक्रिय इंजन की संख्या --------है.

[ ] [A] प्रत्येक छह डिब्बों के बाद कोई भी संख्या [B] एक [C] दो [D] कोई नहीं

**319.** Generally number of dead engines is/are permitted to attach to passenger carrying train

[ ] [A] any number each after six coaches [B] one [C] two [D] nil

320. किसी भी परिस्थिति में, कोई भी निक्रिय इंजन---------- में नहीं जोडा जा सकता है.

[ ] [A] यात्री गाज़ी [B] सीसी रेक माल गाड़ी
[C] राजधानी, शताब्दी / दुरंतो [D] मेल / एक्सप्रेस

**320.** Under any circumstances, no dead engine should be attached to any

[ ]A) Passenger Train B) CC Rake Goods Train
C) Rajdhani, Shatabdi / Duranto D) Mail/Express

321. अधिकारियों के निरीक्षण डिब्बों को ---- की अनुमति नहीं है.
[ ] [A] रेस विशेष गाड़ियां [B] डाक एक्सप्रेस गाड़ियां
[C] मिलटरी विशेष गाड़ियां [D] उपर्युक्त सभी

**321.** Officers inspection carriages are not to be permitted by
[ ] [A] Race specials [B] Postal express trains
[C] Military specials [D] All the above

322. अनुमत भार से अधिक निम्नलिखित में से एक को जोड़ा जा सकता है.
[ ] [A] पार्टी कोच [B] पार्सल यान [C] अधिकारी सेलून
[D] पैंट्री यान

**322.** One of the following can be attached in excess of the permitted load.
[ ] [A] Party Coach [B] Parcel Van [C] Officer's Saloon
[D] Pantry Car

323. मेल / एकसप्रेस गाड़ी में इंजन के बाद और सबसे पिछले वाहन के रुप में कम से कम एक ----------हो.
[ ] [A] ब्रेक यान [B] एंटी टेलिस्कोपिक या स्टील बॉडी एसएलआर [C]सेलून [D]निक्रिय लोको

**323.** A mail/express train shall have after loco in front and in rearmost at least one
[ ] [A] Brake Van [B] Anti Telescopic or Steel Bodied SLR [C]Saloon
[D] Dead Loco

324. जब छोटी गाड़ियों में मध्य में एसएलआर जोड़ा जाता हो, तो एसएलआर के दोनों ओर अधिकतम ----------डिब्बे लगाए जा सकते हैं.
[ ] [A] तीन [B] एक [C] दो [D] कोई भी संख्या [E] इनमें से कोई नहीं

**324.** When centre S L R is provided in short trains, a maximum number of coaches permitted on either side of S L R
[ ] [A]Three [B]One [C] Two [D] Any No. [E] none of these

325. मानक – I R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[ ] [A] 50 किमीप्रघं [B] 75 किमीप्रघं [C] 15 किमीप्रघं [D] 110 किमीप्रघं

**325.** At standard – I R interlocked station the maximum speed permitted for the train over main line points is

[ ] [A] 50 kmph [B] 75 kmph [C]15 kmph [D] 110 kmph

326. मानक – II R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[ ] [A] 140 किमीप्रघं [B] 75 किमीप्रघं [C]160 किमीप्रघं [D] 110 किमीप्रघं

**326.** At standard – II R interlocked station the maximum speed permitted for the train over main line points is

[ ] [A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

327. मानक – III R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[ ] [A] 140 किमीप्रघं [B] 75 किमीप्रघं [C]160 किमीप्रघं [D] 110 किमीप्रघं

**327.** At standard – III R interlocked station the maximum speed permitted for the train over M L points is

[ ] [A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

328. मानक – IV R अंतर्पाशित स्टेशन में मेन लाइन पाइंट पर गाड़ी के लिए अधिकतम अनुमत गति है

[ ] [A] 140 किमीप्रघं [B] 75 किमीप्रघं [C] 160 किमीप्रघं [D] 110 किमीप्रघं

**328.** At standard – IV R interlocked station the maximum speed permitted for the train over main line points is

[ ] [A] 140 kmph [B] 75 kmph [C] 160 kmph [D] 110 kmph

329. सीमेंस पैनल में सिगनल को 'आफ' करने के लिए – ----बटन दबाया जाता है.

[ ] [A] सिगनल और मार्ग [B] पाइंट और सिगनल [C] पाइंट और मार्ग [D] इनमें से कोई नहीं

329. In Siemen's panel buttons to be pressed to take "OFF' signal are
[ ] [A] signal and route [B] point and signal

[C] point and route [D] none of these

330. ईजीजीएन बटन ----------के लिए है.

[ ] [A] मार्ग आरम्भ [B] आपात पूरा मार्ग रिलीज

[C] आपात उप मार्ग रिलीज [D] आपात सिगनल

330. EGGN button is for
[ ] [A] Route initiation [B] emergency full route release [C] Emergency sub route release
[D] Emergency signal

331. यूएन बटन ----------के लिए है.
[ ] [A] सिगनल बटन [B] मार्ग बटन [C] पाइंट बटन [D] शंट सिगनल बटन

331. 'U N' button is
[ ] [A] signal button [B] route button [C] point button [D] shunt signal button

332. आपाती कांटा बटन कोड ----------है.
[ ] [A] WWN [B] EWN [C] EUYN
[D] WN

332. Emergency *Point* button code is
[ ] [A] W W N [B] E W N [C] E U Y N
[D] W N

333. सीमेंस पैनल में सिगनल को फिर से आन स्थिति में लाने के लिए --बटन दबाया जाए.
[ ] [A] UN&EUYN [B] EUUYN&GN [C] GN&UN
[D] GN&EGGN

333. To put back the signal to "ON" position in Siemens's panel buttons to be pressed are
[ ] [A]UN & EUYN [B] EUUYN & GN [C] GN & UN
[D] GN & EGGN

334. सीमेन / एसएसआई पैनल में कांटा स्विच का रंग ----------है,
[ ] [A] लाल [B] नीला [C] भूरा [D]पीला

**334.** In Siemen`s / SSI Panel the colour of the *Point* button is
[ ] [A] Red [B] Blue [C] Grey [D] Yellow

335. मार्ग आरंभ करने के लिए मार्ग रद्दकरण में ----------सेकेंड लगता है.
[ ] [A] 240 सेकेन [B] 10 सेकेन [C] 120 सेकेन [D] 60 सेकेन

**335.** After initiation, Route cancellation takes
[ ] [A] 240 seconds [B] 10 seconds [C] 120 seconds [D] 60 seconds

336. पोदनूर पैनल में कालिंग आन पर गाड़ी के आगमन के बाद कालिंग आन को रद्द करने के लिए लिया गया समय ----------सेकेंड है.
[ ] [A] 240सेकेन [B] 10 सेकेन [C] 120 सेकेन [D] 60 सेकेन

**336.** After the arrival of the train on calling signal , in Podanur panel the time taken to cancel the same , is
[ ] [A] 240 seconds [B] 10 seconds [C] 120 seconds [D] 60 seconds

337. जब कभी पैनल का उपयोग न होता हो , तो इसे ---------
[ ][A] स्विच आफ करें [B] ताला बंद करें [C] परिवालन के लिए खुला रखें [D] उपर्युक्त सभी

**337.** Whenever panel is not in use, it should be
[ ] [A] Switched off [B] locked [C] kept open for operation [D] all the above

338. जब गैर-विद्युतीय क्षेत्र में विद्युत सप्लाई बंद हो जाती है, तो एक जनरेटर का उपयोग एक समय में अधिकतम ----------घंटों के लिए किया जाता ह
[ ] [A] तीन घंटे [B] चार घंटे [C] पांच घंटे [D] ऑठ घंटे

**338.** When power supply fails in Non-electrified area, one generator can be used at a time for a maximum of

[ ] [A] three hours [B] four hours [C] five hours
[D] eight hours

339. बार-बार बिजली खराबी की रिपोर्ट ----------को दी जाती है.
[ ] [A] मंडल परिचालन प्रबंधक [B] मंडल विद्युत इंजीनियर
[C] मंडल सिवदू इाजीनियर [D] विद्युत सिगनल अनुरक्षक

**339.** Frequent power failures are to be reported to
[ ] [A] DOM [B] DEE [C] DSTE
[D] ESM

340. पैनल अंतरपाशित स्टेशनों पर स्टेशन मास्टर आपाती क्रासओवर की जांच-------- करेगा ताकि इसका उचित कार्यचालन सुनिश्चित किया जा सके.
[ ] [A] केवल खराब के दौरान [B] प्रत्येक संचालन से पहले
[C] प्रत्येक सोमवार को [D] प्रतिदिन

**340.** At the Panel interlocked station, to ensure proper functioning of the emergency cross over Station Master shall test
[ ] [A] during failure only [B] before each movement
[C] every Monday [D] Daily

341. जब पाइंट टिमटिमा रहा हो, तो स्टेशन मास्टर सुनिश्चित करेगा कि
[ ][A] प्रा संकेत [B] मार्ग मुक्त [C] कोई अवरोध नहीं है [D] इनमें से कोई नहीं

**341.** When points are flashing the SM shall ensure that there is
[ ] [A] free indication [B] route is free [C] no obstruction
[D] none of these

342. लूप लाइन धुरा काउंटर को फिर से सेट करने के लिए स्टेशन मास्टर----------का सहयोग लेगा.
[ ] [A] केवल परिचालन [B] केवल सिवदू [C] परिचालन या सिवदू [D] इंजीनियर / परिचालन

**342.** For resetting the loop line axle counter, the SM shall take the co-operation of staff of
[ ] [A] optg only [B] S&T only [C] optg or S&T [D] Engg/Optg

343. डबल लाइन पर एलएसएस के आगे शंटिग करने के लिए स्टेशन मास्टर लिखित प्राधिकार देने से पहले .

[ ][A] ब्लाक फार्वड [B] ब्लाक बैक [C] लाइन ब्लाक प्राप्त करेगा [D] इनमें से कोई नहीं

**343.** On Double line, to perform shunting beyond LSS, before giving authority, SM shall

[ ] [A] Block forward [B] Block back [C] obtain line block [D] none of these

344. डबल लाइन पर एलएसएस के आगे शंटिग करने के लिए प्राधिकार है

[ ] [A] पी एन के साथ टी/806 [B] एलएसएस आफ में लेने के बाद टी/806 नीचे शंट सिगनल

[C] टी/806 एलएसएस लीवर चाबी [D] उपर्युक्त में से कोई एक

**344.** On Double line, to perform shunting beyond LSS, authority is

[ ] [A] T/806 with P.N [B] T/806 shunt signal below LSS taken 'off '

[C] T/806 LSS lever key [D] any one of the above

345. सिंगल लाइन टोकनरहित सेकशन पर, एलएसएस के आगे (एफएसएस की विपरीत दिशा तक ) शंटिंग करने के लिए प्राधिकार -----है.

[ ] [A] टी/806 + शंट चाबी या P.N [B] एलएसएस के नीचे शंट सिगनल आफॅ स्थिति में [C] केवल टी/806 [D] टी/806 + वापस आने के लिए लिखित मेमो

**345.** On S/L token less sections, to perform shunting beyond LSS ( up to opposite FSS ) the authority is

[ ] [A] T/806 + shunt key or PN [B] shunt signal below LSS taken 'off'

[C] T/806 only [D] T/806 +written memo to come back

346. डबल लाइन पर आउटरमोस्ट फेसिंग पाइंट / बीएसएलबी के आगे शंटिंग करने के लिए प्राधिकार ----------है.

[ ] [A] टी/806 + P.N [B] टी/806 + शंट चाबी

[C] टी/806 केवल [D] टी/806 + लिखित मेमो

**346.** On double line to perform shunting beyond Outer most facing points/BSLB authority is

[ ][A]T/806 + P.N [B] T/806+ shunt key [C]T/806 only [D]T/806 +written memo

347. सिगनल व दूर संचार कार्य, जिनके अनुरक्षण के लिए संयोजन / वियोजन आवश्यक है --- ग्रूप के अधीन है

[ ] [A] समूह A [B] समूह - B [C]समूह - C [D] विशेष श्रेणी

**347.** S & T works for maintenance which definitely require Disconnection / Reconnection are grouped under

[ ] [A]Group -A [B] Group-B [C]Group-C [D] Special Class

348. स्टेशन मास्टर, ----------रजिस्टर में हस्ताक्षर प्राप्त करने के बाद रिले कक्ष की चाबी सिगनल व दूरसंचार अनुरक्षक को सौंपेंगा..

[ ] [A] स्टेशन डायरी [B] गाड़ी सिगनल रजिस्टर [C]रिले कक्ष चाबी रजिस्टर [D] संचालन रजिस्टर

**348.** The Station Master shall hand over the Relay room key to the S&T staff after obtaining the signature in the

[ ] [A] Station diary [B] Train signal register [C] relay room key register [D] movement register

349. स्टेशन संचालन नियम में समपार फाटकों के कार्यचालन --- परिशिष्ट में दिया गया

[ ] [A] 'G' [B] 'B' [C]'C' [D] 'A'

**349.** In SWR, Working of Level Crossing Gates are given in the Appendix

[ ] [A] 'G' [B] 'B' [C]'C' [D] 'A'

350. स्टेशन कर्मचारियों द्वारा ओएचई कार्य स्टेशन पर स्टेशन कर्मचारी द्वारा पालन किए जाने वाले सामान्य पूर्वोपाय --- (स्टेसंनि के) परिशिष्ट में है.

[ ] [A] `A' [B] 'B' [C] 'C' [D] 'G'

**350.** The general precautions regarding O H E ( working ) of a block station are given in appendix ( of S W R )

[ ] [A] `A' [B] 'B' [C] 'C' [D] 'G'

351. विद्युत उपकरण के कोई भी भाग में आग लगने के मामले में, प्रभावित भाग को पहले

[ ] [A] पानी से बुझाएं [B] पूर्णत: अलग करें [C]रेत से बुझाएं [D] इनमें से कोई नहीं

**351.** In the event of fire on any part of electrical equipment, the affected part is first to be

[ ] [A] extinguished by water [B] completely isolated

[C] extinguished by mud [D] none of these

352. डबल लाइन पर जब होम सिगनल खराब हो तो ब्लाक खराब को रोकने के लिए इसके लीवर / नाब को ----------स्थिति में रखा जाए.

[ ] [A].सामान्य स्थिति [B] सामान्य / विपरीत स्थिति
[C]. विपरीत स्थिति [D].कोई भी स्थिति

**352.** When Home signal is defective on D/L, to prevent block failure, its lever/knob should be kept in

[ ] A) Normal position B) Normal / Reverse position

C) Reverse position D) Any Position

353. जब कभी कोई गाड़ी बिना टेल लैंप या टेल बोर्ड के गुजटरती है तो अगले स्टेशन मास्टर को दिया जाने वाला घंटी कूट

[ ] [A].00000 [B].000000 [C].000000 - 0 [D].000000 - 00

**353.** Bell code to be given to SM in advance, when ever a Train passed without tail lamp or tail board is

[ ] A) 00000 B) 000000 C) 000000 – 0 D000000 – 00

354. जब ध्यान आकर्षक का पावती नहीं मिलता तो स्टेशन मास्टर द्वारा ---- अवधि के बाद फिर से ध्यान आकर्षक बेल दिया जाय.

[ ] [A].5 सेकेन [B].10 सेकेन [C] 20 सेकेन [D].60 सेकेन

**354.** When acknowledgement cannot be obtained for 'Call attention' bell beat, again Call attention shall be given by SM after

[ ] A) 5 Seconds B) 10 Seconds C) 20 Seconds D) 60 seconds

355. कार्यभार ग्रहण करने वाला स्टेशन मास्टर ब्लाक उपकरण की जांच करेगा और इसे ---------–में दर्ज करेगा.

[ ] [A].स्टेशन डायरी [B].टी एस आर [C].सिवदू रजिस्टर [D].टी / 50

**355.** The Station Master taking over charge shall test the block instrument and make a record of the result then and there in the

[ ] A) Station Diary B) T S R C) S&T Register D) T / 50

356. स्टेशन मास्टर जो लाइन किलयर मांगता/देता है, तो वह ----------सिगनल प्राप्त होने / अभिस्वीकृति मिलने तक ड्यूटी पर रहेगा.

[ ] [A].ब्लाक सेक्शन से गाड़ी बाहर जाने तक [B]. ब्लाक सेक्शन में गाड़ी प्रवेश करे

[C].गाड़ी सीधी गुजरने तक [D].कोई नहीं

**356.** The Station Master who obtains / grants line clear shall remain on duty till this signal is received /acknowledged.

[ ] A).Train Out of Block Section B).Train Entering Block Section

C).Train passed through D).None

357. गाड़ी सिगनल रजिस्टर को, स्टेशन पर --- तक रखा जाय

[ ] [A] 3 माह जिसमें पूर्ण हुआ हो [B] 6 माह जिसमें पूर्ण हुआ हो

[C] 1 वर्ष जिसमें पूर्ण हुआ हो [D] आधे वर्ष के बाद 1 वर्ष जिसमें पूर्ण हुआ हो

357. The TSR shall be retained at station for
[ ] A) 3 months in which it is completed. B) 6 months in which it is completed.

C) 1 Year in which it is completed D)1Year after half year in which it is completed.

358. स्टेशन मास्टर पोदनूर पुश बटन / एसजीई ब्लाक उपकरण को जांचने के लिए बिना लाइन क्लियर पाप्त किए----------को ऑफ करने का प्रयत्न करेगा
[ ] [A].एफएसएस [B].स्टार्टर [C].एलएसएस
[D].कोई सिगनल

358. SM shall test the Podanur push button block instrument /SGE block instrument, without obtaining line clear by attempting to take off
[ ] A) FSS B) Starter C) LSS D) Any Signal

359. जब ब्लाक उपकरण ----- स्थिति में हो तो स्लिप/कैच साइडिंग चाबी को निकाला नहीं जा सकता.
[ ] [A] टीसीएफ [B] टीजीटी [C] टीसीएफ/टीजीटी [D] लाइन बंद

359. Slip/Catch siding key cannot be removed when Block instrument is in this position.
[ ] A).TCF B).TGT C).TCF / TGT D).Line Closed

360. सिंगल लाइन विद्यतीकृत सेक्शनों में (केवल )--- प्रकार के उपकरण ही उपलब्ध है.
[ ] [A].एसएसबीपीएसी [B].यूएफएसबीआई [C].डायोडो [D].कोई भी एक

360. In Single line electrified sections, this type of block instruments are (only) provided.
[ ] A) SSBPAC B) UFSBI C) Daido D) Any of the above

361. पुश बटन टोकन रहित ब्लाक उपकरण में जब शंटिंग प्रयोजनों के लिए शंट चाबी न निकाली जा सके तो स्टेशन मास्टर दूसरे छोर के स्टेशन मास्टर को यह सूचना देगा कि
[ ] [A] लाइन बंद स्थिति में ब्लाक उपकरण को रखें [B] शंट चाबी निकालें
[C] टीसीएफ स्थिति में ब्लाक उपकरण को रखें [D] शंट चाबी निकाले और PN दें

**361.** In push button token less block instrument when shunt key cannot be extracted for shunting purposes, the SM shall advise the SM at the other end

[ ] A) to keep block instrument in line closed position B) to extract shunt key

C) to keep block instrument in TCF position D) to extract shunt key and to give P.N

362. आरंभिक स्टेशन पर सभी माल गाड़ियों के लिए "क्या लाइन क्लियर है" ----- पूछा जाए.

[ ] [A] 5 मिनट पहले [B] 10 मिनट पहले [C] बीपीसी साइन करने के बाद [D] जब गाड़ी तैयार हो

**362.** For all Goods trains at originating station "is line clear" should be asked

[ ] A) Before 5 Min B) Before 10 Min

C) after BPC Signed D) when the Train is ready

363. गाड़ी के आरंभिक स्टेशन पर , यात्री गाड़ियों के लिए निर्धारित प्रस्थान से ---------- पहले "क्या लाइन क्लियर है" पूछा जाए.

[ ] [A] 5 मिनट [B] 10मिनट [C] WTT के अनुसार [D] गार्ड & लोको पायलट तैयार है

**363.** At train starting station , 'is line clear' shall be asked, ---- minutes before the booked departure of the passenger carrying trains.

[ ] A) 5 minutes B) 10 Minutes C)As per WTT D)G D & L P Ready

364. मध्यवर्ती स्टेशनों पर पांच मिनट से कम समय तक रुकने वाली गाड़ियों के लिए "क्या लाइन क्लियर है" पूछा जाए, जब गाड़ी ----------

[ ] [A] दिखती हो [B] पहुंचती हैं [C] WTT के अनुसार [D] तैयार है

**364.** At intermediate stations, for all stopping trains with a halt of less than five minutes' is line clear' shall be asked when the Train is

[ ] A).Sighted B).Arrived C) As per WTT D) ready

365. स्टेशन से सीधे जाने वाली गाड़ी के मामले में गाड़ी के गुजरने के समय से -----पहले "क्या लाइन क्लियर है" पूछा जाए.

[ ][A] 5 मिनट [B] 7 मिनट [C]10 मिनट [D] गाड़ी पिछला स्टेशन छोड़ती है

**365.** For a run through train , is line clear shall be asked , how many minutes before the train is due to pass.

[ ] A) 5 minutes B) 7 minutes C)10 minutes D) Train left Rear Station

366. स्टेशन से सीधे जाने के लिए बुक की गई गाड़ी के मामले में, जिसका रनिंग समय 7 मिनट से कम हो, यह सिगनल प्राप्त होने के तुरंत बाद "क्या लाइन क्लियर है" प्राप्त किया जाए.

[ ] [A].ब्लाक सेक्शन में गाड़ी का प्रवेश [B]. क्या लाइन क्लियर है

[C]. ब्लाक सेक्शन के बाहर गाड़ी [D].कोई नहीं

**366.** For run through trains whose running time is less than seven minutes, Line clear is to be obtained immediately after this signal is received.

[ ] A) Train Entering block section B) Is Line Clear

C) Train out Of Block section D) None

367. ड्यूटी पर कार्यरत प्रत्येक स्टेशन मास्टर को सप्लाई की जाने वाले प्राइवेट नंबर शीटों की संख्या

[ ] [A].एक [B].दो [C].तीन [D].कोई लिमिट नहीं

**367.** No. of Private Number sheets supplied to each on duty Station Master.

[ ] A) One B) Two C) Three D) No limit

368. पुश बटन टोकन रहित ब्लाक उपकरण में अग्रिम स्टेशन के स्टेशन मास्टर को लाइन क्लियर लेने से रोकने के लिए स्टेशन मास्टर यह करेगा.

[ ] [A].शंट चाबी निकालेगा [B].एलएसएस/एफएसएस नॉब को विपरीत दिशा में करेगा [C].दोनों A & B [D].इनमें से कोई नहीं

**368.** To prevent Line clear from being taken by the SM of station in advance , in Push button token less block instrument, the SM shall

[ ] A) Remove Shunt Key B) Reverse LSS / FSS knob C) Both A & B D) None

369. जब स्टेशन मास्टर लाइन क्लियर प्रदान करना नहीं चाहता है, वह निम्नलिखित घंटी कोड देगा

[ ] [A].00000 [B].000000 [C].000000 - 0
[D].00000000000

**369.** When SM does not want to grant line clear, he shall give the following bell code signal.

[ ] A).00000 B).000000 C).000000 - 0
D).00000000000

370. एसजीई ब्लाक उपकरण डबल लाइन सेक्शन पर जब गाड़ी सामान्य प्रस्थान प्राधिकार पर ब्लाक सेक्शन में प्रवेश के बाद सामान्य एटीपी पर पीछे धकेली जाती हो, तो अगली गाड़ी को ----------पर भेजा जा सकता है.

[ ] [A].सतर्कता आदेश [B].पीएलसीटी [C].टी / 369 (3बी ) [D].मेमो

**370.** On double line sections provided with SGE block instrument, when a train is pushed back after entering the block section on normal ATP, the next train shall be dispatched on

[ ] A) Caution Order B) P L C T C) T / 369 (3b) D) Memo

371. एसजीई ब्लाक उपकरण डबल लाइन सेक्शन पर ब्लाक फारवर्ड या ब्लाक बैक किया जाता हो तो ब्लाक उपकरण को ----------स्थिति में लाया जाए.

[ ] [A].बंद स्थिति [B].लाइन बंद स्थिति
[C].लाइन पर गाड़ी की स्थिति [D].टीजीटी / टी सी एफ स्थिति

**371.** When Block forward or Block back is done on double line sections provided with SGE block instrument , the block instrument shall be kept in

[ ] A) Locked position B) Line Closed position
C) Train On Line position D) TGT / TCF position

372. यदि भागे हुए इंजन या वाहन सबसे धीमी चलने वाली मालगाडी के रनिंग समय से ----------मिनट अधिक समय में भी न पहुंचे तो राहत इंजन भेजा जाए.

[ ] [A].30 मिनट [B].45 मिनट [C].10 मिनट [D].5 मिनट

**372.** A relief engine should be sent, if the engine or vehicles running away have not arrived even after a lapse of ----------more than the running time of the slowest speed goods train.

[ ] A) 30 min B) 45 min C) 10 Min D) 5 Min

373. जब "लाइन पर गाड़ी बजर " खराब हो तो , ब्लाक उपकरण को खराब माना जाय और उसके कार्यचालन

[ ] [A].आंशिक रुप से खराब [B].सस्पेंडेड [C].रेस्युम्ड [D].नार्मल वे

**373.** When ' Train on line' buzzer fails, the block instrument shall be considered to be interrupted and their working

[ ] A).Partially Failed B).Suspended C).Resumed D).Normal Way

374. स्टेशन एक्स या स्टेशन वाई पर ब्लाक उपकरण की खराबी को एक्स और वाई के स्टेशन मास्टरों द्वारा उनके ----------रजिस्टर में दर्ज किया जाए.

[ ] [A]. टीएसआर [B]. S & T खराबी रजिस्टर [C].स्टेशन डायरी [D]. ये सभी

**374.** Block instrument failure either at station 'X' or station 'Y' shall be recorded by both Station Masters of 'X' and 'Y' in their

[ ] A).T S Rs B). S & T Failure Registers C).Station Diaries D).all the above

375. ब्लाक उपकरण के खराब होने या भंग करने के मामले में, संचार के किसी वैकल्पिक साधन द्वारा गाड़ी को सिगनल देने से पहले दोनों स्टेशन मास्टर संदेश आदान प्रदान करेंगे और ------ से टीएसआर में दर्ज करेंगे.

[ ] [A] नीली/काली स्याही [B].लाल स्याही [C].रिमार्क कालम [D].कोई नहीं

**375.** In the event of failure or suspension of Block Instrument, before signaling a train through any alternative means of communication, both SMs shall exchange Messages and record in the TSR in.

[ ] A) Blue/Black Ink B)Red Ink C)Remarks Column D)None

376. जब बीपीएसी खराब होता है तो अगले स्टेशन मास्टर के साथ सहयोग से रिसेटिंग के बाद इस मोड में चला जाता है.

[ ] [A] डिफेक्टिव [B] साइलेंट [C] प्रिपरेटरी [D] एक्टिव

**376.** When BPAC fails, after resetting the instrument with the cooperation of SM in advance it goes to this mode

[ ] A) Defective B) Silent C) Preparatory D) Active

377. पीएलसीटी जारी करने के लिए, सभी गाडियों को ---------- पर रोकें.
[ ] [A] एफएसएस [B] सम्मुख पॉइंट [C] स्टार्टर [D] जाते हुए सौंपना

**377.** For issuing P L C T , all trains shall be stopped at
[ ] A] F S S B] Facing Points C] Starter D] Hand over on Run

378. यद्यपि पिछली बत्ती/पिछला बोर्ड नहीं पाया जाता है तो ब्लाक सेकशन को बंद रोक रखने की आवश्यकता नहीं है, जहां ----------लगा हो.
[ ] [A].कैबिन [B] ब्लाक उपकरण [C] बी पी ए सी [D] पैनल बोर्ड

**378.** Even if tail lamp/tail board is not found, closing block section need not be held up if provided with.
[ ] A) Cabins B) Block Instruments C) B P A C D) Panel Board

379. पीएलसीटी चालन के दौरान टीएसआर में प्रविष्टि के अलावा प्राप्तकर्ता छोर पर इसमें भी प्रविष्टि की जाए.
[ ] [A] T /A 1425 [B].T / B 1425 [C].T / 15 [D].उपर्युक्त सभी

**379.** During PLCT working, entries shall be made at receiving end in this register in addition to TSR
[ ] A).T / A 1425 B).T / B 1425 C).T / 15 D).All the above

380. पीएलसीटी जारी करते समय लोको पायलट के हस्ताक्षर को इसमें प्राप्त करें.
[ ] [A] टी / ए 1425 का कालम A [B] टी / बी 1425 का कालम A
[C]. टी / ए 1425 का कालम B [D] टी / बी 1425 का कालम B

**380.** While issuing PLCT, Loco Pilot's signature is to be obtained in
[ ] A) column A of T / A 1425 B) column A of T / B 1425
C) column B of T/A 1425 D) column B of T / B 1425

381. दुर्घटनाएं कितने कोटियों में वर्गीकृत है,

[ ] [A] एक [B] दो [C] तीन [D] पांच

**381.** Accidents are classified into how many categories
[ ] [A] One B] Two C] Three D] Five

382. परिणामी दुर्घटना का एक उदाहरण----------है.

[ ] [A] आन पर सिगनल पास करना B] ATP के बिना ब्लाक सेक्शन में प्रवेश करना C] गाड़ी में आग लगना D] निवारित टक्कर

**382.** An example of consequential accident is
[ ] A] Signal passing at "ON" B] Entering into B/S w/o ATP

C] Fire on train D] Averted collision

383. संकेतात्मक दुर्घटना का एक उदाहरण------है.
[ ] [A] ब्लाक नियमों का उल्लंघन [B] गाड़ी में आग लगना
[C] टक्कर [D] समपार फाटक दुर्घटनाएं

**383.** An example of indicative accident is
[ ] A] Breach of block rules B] Fire on train

C] Collisions D] LC gate accidents

384. स्टाप सिगनल को डेंजर पर पास करना -----प्रकार की दुर्घटना है.

[ ] [A] संकेतात्मक दुर्घटना [B] निवारित टक्कर
[C] परिणामी गाड़ी दुर्घटना [D] उपर्युक्त में से कोई नहीं

**384.** Passing stop signal at Danger is this type of accident.
[ ] A] Indicative accident B] Averted accident

C] consequential train accident D] none of above

385. किसी दुर्घटना को गंभीर दुर्घटना मानी जाए जब उसमें ---------- शामिल हो.
[ ] [A] मृत्यू [B] गंभीर रूप से जख्मी [C] रेल संपत्ती को 2 करोड रुपयों की हानी [D] ये सभी

**385.** An accident ,shall be treated as Serious accident when it is involved in
[ ] A] death B] serious injury
C] loss to Railway property of Rs.2 crores D] all the above

386.ट्रंक मार्गों पर, जब यातायात निम्नलिखित घंटों या उससे अधिक समय के लिए अवरुद्ध हो तो उसे यातायात का गंभीर अवरोध माना जाता हे.
[ ] [A] 12 घंटे B] 8 घंटे C] 24 घंटे D] 6 घंटे

**386.** On trunk routes when traffic is disrupted for following hours or more, it is treated as serious dislocation of traffic.
[ ] A] 12 hours B] 8 hours C] 24 hours D] 6 hours

388. स्टेशन सीमा के बाहर यदि दो गाड़ियों के बीच की दूरी --------या अधिक हो तो ऐसी घटना को निवारक टक्कर नहीं माना जाए.

[ ] [A] 600 मीटर या कम [B] 400 मीटर से कम
[C] 1400 मीटर से कम [D] 180 मीटर से कम

**387.** To treat any accident as averted collision, outside station limits, the distance between two trains shall be.
[ ] A] 600 meters or less B] less than 400 meters
C] 1400 meters or less D] 180 meters or less

388.जब गाड़ी ने किसी व्यकित को टककर मारी है या ऊपर से गाड़ी गुजर गई है और कोई भी जिम्मेदार व्यकित नहीं है, तो मृत शरीर को

[ ] [A] उपेक्षा करें
[B] अगले स्टेशन पर सूचना दें
[C] सीधे जाते समय मेमो छोड़ें
[ मेमो के साथ नज़दीकी फाटक या स्टेशन पर मृत शरीर को छोड़ें

388. When a person is knocked down or run over and dead, no responsible person is available, body shall be

[ ] A] ignored B] inform at next station

C] drop a memo while runs through

D] Handed over at nearest gate lodge or station with a memo

389.जब द्वितीय श्रेणी डिब्बे में हत्या की रिपोर्ट प्राप्त होती हो तो डिब्बे को ---- पर अलग किया जाएगा

[ ] [A] अगला स्टेशन [B] स्टेशन जहां पर अपराध हुआ

[C] स्टेशन, जहॉ डिब्बे को बदला जा सकता है. [D] गंतव्य

389. When murder is reported in second class compartment, carriage to be detached at the

[ ] A] Next station

B] Station where crime was detected

C] Station, where the coach can be replaced D] Destination

390.ब्लाक नियमों के भंग का एक उदाहरण

[ ] [[A]] गलत लाइन पर गाड़ी का प्रवेश[B] प्रस्थान प्राधिकार के बिना गाड़ी ब्लाक सेक्शन में प्रवेश करना

[C] साइडिंग में गाड़ी का प्रवेश [D] उपर्युक्त सभी

390. An example of breach of block rules is

[ ] A] Train entered into wrong line B] train entered into B/S without a ATP

C] Train entered into siding D] all the above

391. रेल संपत्ति की हानि का अवसीमा मूल्य (थ्रेसहोल्ड वैल्यू) ---------रु. निर्धारित है.

[ ] [A] 1 लाख [B] 4 लाख [C] 4 लाख [D] 2 करोड़

391. The threshhold value in terms of loss of Railway property is fixed at Rs

[ ] A] 1 lakh B] 4 lakhs C] 25 lakhs D] 2 Crores

392.जब कभी दुर्घटना होती है, दुर्घनाग्रस्त गाड़ी के गार्ड, लोको पायलट के अलावा दोनों ओर के स्टेशनों में ( ड्यूटी पर कार्यरत ) ----------कर्मचारियों के भी रकत का नमूना लिया जाए.

[ ] [A] स्टेशन मास्टर [B] पाइंट्समैन / कैबिन मैन/ लीवर मैन
[C] कैबिन मास्टर [D] उपर्युक्त सभी

**392.** Whenever accident takes place, blood samples are to be collected from GLP of the ill fated train and following ( on duty Station staff ) of stations on either side.

[ ] A] S Ms B] Points men / Cabin men/ Lever men

C] Cabin Master D] All the above

393. तीन लंबा दुर्घटना सायरन इसका संकेत है

[ ] [A] बगलवाली यार्ड में दुर्घटना

[B] आउट स्टेशन दुर्घटना, MRT आवश्यक है

[C] आउट स्टेशन दुर्घटना, मेन लाइन ब्लाक है

[D] आउट स्टेशन दुर्घटना, मेन लाइन अवरुद्ध नहीं है

**393.** Accident siren three long indicates

[ ] A] Accident in the adjoining yard

B] Outstation accident, MRT required

C] Outstation accident, main line is blocked

D] Outstation accident, main line is not obstructed.

394.जब आउट स्टेशन पर दुर्घटना होती है, मेन लाइन अवरुद्ध हो और एम आर टी आवश्यक हो तो दुर्घटना सायरन---है.

[ ] [A] चार लंबा [B] तीन लंबा एक छोटा [C] चार लंबा एक छोटा [D] तीन लंबा

**394.** Accident siren " accident at out station, main line obstructed and MRT required " is

[ ] A] Four long B] Three long one short

C] Four long one short D] Three long

395.दुर्घटना राहत गाड़ी (एआरटी) तैयार होने का निर्धारित समय दिन/रात में---------- है.

[ ] [A] 15मिनट & 20 मिनट [B] 30 मिनट & 45 मिनट [C] 1 घंटा &1 1/2 घंटा

[D] इनमें से कोई नहीं

**395.** The target time for turning out ART during day and night is

[ ] A ] 15minutes & 20 minutes B] 30 minutes & 45 minutes

C] 1 hour and 1 1 /2 hour

D] none of these

396.एआरएमई स्केल - I में----------होता है.

[ ] [A] चिकित्सा यान B] सहायता यान C]दोनों A & B D] इनमें से कोई नहीं

**396.** ARME scale -I comprises of

[ ] A] Medical Van B] Auxiliary Van C] both A & B

D] none of these

397. एआरएमई स्केल - II को पेटियों में ----------स्थान पर रखा जाता है.

[ ] [A] स्टेशन B] कैबिन C] स्वास्थ्य केंद्र D] रेलवे अस्पतालों के विशेष कक्षों में

**397.** Scale II - ARME is stored in boxes and placed in

[ ] A] Stations B]Cabins C]Health Units D] special rooms of Rly.Hospitals

398.प्रत्यक्ष / अप्रत्यक्ष प्रेषण के लिए चिकित्सा राहत गाड़ी (एमआरटी) तैयार रहने का निर्धारित समय---है.

[ ] [A] 15 मिनट और 20 मिनट [B] 30 मिनट और 45 मिनट

[C] 10 मिनट और 15 मिनट [D] 5 मिनट और 30 मिनट

**398.** The target time for turning out MRT for direct/indirect dispatch, is

[ ] A] 15 minutes and 20 minutes B] 30 minutes and 45 minutes

C] 10 minutes and 15 minutes D] 5 minutes and 30 minutes

399.मंडल चिकित्सा अधिकारी(DMO)-----में एक बार चिकित्सा यान ( स्केल-I ) की जांच करेगा.

[ ] [A] एक माह [B] 2 माह [C] 3 माह [D] 15 दिन

**399.** DMO should inspect the Medical Van ( Scale - I ), once in

[ ] A] a month B] 2 months C] 3 months D] 15 days

400. सह्याक मंडल चिकित्सा अधिकारी (ADMO)-----में एक बार ( स्केल -II ) की जांच करेगा.
[ ] [A] एक माह [B] 2 माह [C] 3 माह
[D] 15 दिन

**400.** ADMO should inspect the Medical Van ( Scale – II ) , once in
[ ] A] a month B] 2 months C] 3 months D] 15 days

401.एआरटी / एमआरटी गाड़ी का परीक्षण रन ----------में एक बार किया जाना चाहिए.
[ ] [A] एक माह [B] 2 माह [C] 3 माह [D] वर्ष

**401.** Trail run of ART / MRT shall be done , once in
[ ] A] a month B] 2 months C] 3 months D] one year

402.ए आर टी के लिए माक ड्रिल्स ----------में एक बार आयोजित किया जाए.
[ ] [A]1 माह [B] 2 माह [C] 3 माह [D] एक वर्ष

**402.** Mock drills for ART shall be conducted once in
[ ] A] a month B]2 months C] 3 months D] a year

403. गाड़ी चलाने के लिए खतरनाक माना जाता है. ( 24 घंटों में वर्षा )
[ ] [A] 1 सेंमी B] 5 सेंमी C] 10
सेंमी D] 15 सेंमी

**403.** This is considered as dangerous for running trains ( Rainfall in 24 hours )
[ ] A]1 cms B]5 cms C]10 cms
D] 15 cms

404.-------किमी की तेज हवा को गाड़ी चलाने के लिए खतरनाक माना जाता है
[ ] [A] 60 किमीप्रघं या अधिक [B] 65 किमीप्रघं या
अधिक [C] 50 किमीप्रघं या अधिक [D] 5
किमीप्रघं या अधिक

**404.** Heavy wind is considered dangerous for running trains if wind velocity is
[ ] A] 60 kmph or more B] 65 kmph or more
C] 50 kmph or more D] 5 kmph or more

405.मौसम चेतावनी के प्रयोजन के लिए, दक्षिण मध्य रेलवे को ---भागों में विभाजित किया गया है
[ ] [A] 5 क्षेत्र [B] 6 क्षेत्र [C] 7 क्षेत्र
[D] 8 क्षेत्र

**405.** For the purpose of Weather Warning, South Central Railway is divided into
[ ] A]5 zones B]6 zones C]7 zones D] 4
zones

406.गाड़ी / चौकीदार वाले समपार फाटक पर दुर्घटना में मृत्यु के मामले में अनुग्रह राशि --------रु. है

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

**406.** Ex- gratia to be paid In case of death in Train/ manned Level Crossing accident is Rs

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

407. गाड़ी / चौकीदार वाले समपार फाटक पर गंभीर चोट के मामले में अनुग्रह राशि ----------रु है

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

**407.** Ex-gratia to be paid in case of serious injury in a Train/manned LC gate accident is Rs.

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

408. गाड़ी / चौकीदार वाले समपार फाटक पर मामूली चोट के मामले में अनुग्रह राशि ----------रु है

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

**408.** Ex-gratia to be paid in case of simple injury in a Train/manned LC gate accident is Rs.

[ ] A] 5,000 B] 10,000 C] 25,000 D] 50,000

409 .दुर्घटना की तारीख से --------------के भीतर क्षतिपूर्ति का दावा किया जाए.

[ ] [A] 1 वर्ष [B] 2 वर्ष [C] 6 माह [D] 3 वर्ष

**409.** The claim for compensation shall be made within the following time from the date of accident

[ ] A] 1 year B]2 year C] 6 months D] 3 years

410.---------के जरिए क्षतिपूर्ति का दावा किया जाए.

[ ] [A] रेल दावा अधिकरण B] सिविल न्यायालय C] उच्च न्यायालय D] जिला न्यायालय

410. The claim for compensation shall be made through

[ ] A] Railways Claims Tribunal B] Civil court C] High court D] District court

411.किसी सेक्शन में 24 घंटों में चलाई जाने वाली गाडियों की संख्या को _____के रूप में कहा जाता है.

[ ] A) थ्रू पुट B) माल डिब्बा निवर्तन C) सेक्शन क्षमता D) डीडब्ल्यूबी

411.The number of trains which can be run on a section in 24 hours is termed as

[ ][A]Throughput [B] Wagon Turn Round [C]Section Capacity[D] DWB

412. स्कॉट फार्मुला में, 'T' का तात्पर्य _____ है

[ ] A) ब्लॉक परिचालन समय

B) क्रिटिकल ब्लॉक सेक्शन पर तेज माल गाडी का रनिंग समय

C) क्रिटिकल ब्लॉक सेक्शन पर धीमी माल गाडी का रनिंग समय

D) दक्षता तत्व

412.In Scotts's formula , 'T' means

[ ] [A] Block Operation Time

[B]Running time of fastest Goods train Over Critical Block Section

[C]Running Time of Slowest Train Over Critical Block Section

[D]Efficiency factor

413. स्कॉट फार्मुला में दक्षता तत्व का मूल्य _____ के रूप में लिया जाता है.

[ ] A) 8/10 B) 6/10 C) 7/10 D) 9/10

413. The value of Efficiency factor in Scotts formula for calculating section capacity is taken as

[ ] [A] 8/10 [B] 6/10 [C] 7/10 [D] 9/10

414.जांच समिती को अपनी रिपोर्ट मंडल रेल प्रबंधक को प्रस्तुत करने के लिए अधिकतम समय सीमा _____ है.

[ ] A) डी+3 B) डी+7 C) डी+5 D) डी+11

414.Maximum time limit for 'Inquiry Committee' to submit the report to DRM is

[ ] [A] D+3 [B] D+7 [C] D+5 [D] D+11

415.एचओईआर के अंतर्गत वर्गीकरणों की संख्या_____

[ ] A) 5 B) 2 C) 4 D) 3

415.No of classifications under HOER

[ ] [A] 5 [B] 2 [C] 4 [D] 3

416. बडी शस्ती देने के लिए मानक फार्म_____का प्रयोग किया जाता है.

[ ] A) एसएफ 11 B) एसएफ 1 C) एसएफ 5 D) इनमें से कोई नहीं

416.Standard form to be used for issuing Major Penalty is

[ ] [A] SF11 [B] SF1 [C] SF5 [D] None of these

417. छोटी शास्ति देने के लिए मानक फार्म_____का प्रयोग किया जाता है.

[ ] A) एसएफ 11 B) एसएफ 5 C) एसएफ 1 D) इनमें से कोई नहीं

417.Standard form to be used for issuing Minor Penalty is

[ ] [A] SF11 [B] SF5 [C] SF1 [D] None of these

418 .किसी सेक्शन को सैचुरेटेड माना जाएगा जब लाईन क्षमता__चार्टेड क्षमता की हो.

[ ] A) चार्टेड क्षमता का 100% B) चार्टेड क्षमता का 90%

C) चार्टेड क्षमता का 80% D) चार्टेड क्षमता का 70%

418. A Section will be considered saturated when line capacity exceeds.

[ ] [A] 100% of charted capacity [B] 90% of charted capacity

[C] 80% of charted capacity [D]70% of charted capacity

419..यदि रेलवे के कार्य व्यय में वृद्धि होती है, तो परिचालन अनुपात निष्पादन ---- ------ हो जाएगा

[ ] A) कमजोर (B) उच्च (C) कोई प्रभाव नहीं होगा D) उपर्युक्त में से कोई नहीं

419. .If working expenses of a Railway are increasing, the operating ratio performance will become

[ ][A]poor [B]high [C]does not affect [D] None of the above

420.यदि रेलवे की सकल राजस्व प्राप्ति में वृद्धि होती है, तो परिचालन अनुपात निष्पादन---------- हो जाएगा

[ ] (A)कमजोर (B) उच्च (C) कोई प्रभाव नहीं होगा (D) उपर्युक्त में से कोई नहीं

420. If Gross revenue receipts of a Railway are increasing, the operating ratio performance will become

[ ] [A] poor [B] high [C] does not affect [D] None of the above

421. आपदा के मामले में, त्वरित कार्य दल में ------होते है.

[ ] (A) गार्ड और लोको पायलट मात्र (B) स्टेशन कंटोलर (c) लोको पायलट और सहायक लोको पायलट मात्र (D) आन बोर्ड सभी कर्मचारी

421. In case of disaster, instant action team comprises of

[A]Guard &LP only [B]SM & SCOR [C]LP &ALP only [D] All on board staff

422. यदि गाडी ने बिना उचित प्राधिकार के होम सिगनल को आन में पार कर लिया हो तो गाडी को लेने का प्राधिकार----------.

[ ] (A) टी/369 3 (B) पुर्नआरंभ मेमो (C) पीएचएस (D) ये सभी

422. Authority of receiving a train which has passed home signal at ;ON; without proper authority

[A]T/369 3(b) [B]restart memo [C] PHS [D] all the above

423. एनडीआरएफ का पूर्ण रूप है-----

[ ] (A) राष्टीय आपदा रेलवे बल (B) राष्टीय आपदा राहत बल (C) राष्टीय आपदा रिस्पांस बल (D) इनमें से कोई नहीं.

423.Full form of NDRF is

[ ] [A] National Disaster Railway Force

[ B] National Disaster Rescue Force

[ C] National Disaster Responsive Force

[ D] None of the above

424. प्रस्थान करनेवाली गाडी के लिए आफ किये गये सिगनल को ------- पर ही फिर से आन किया जा सकता है.

[ ](A) दुर्घटना रोकने (B) गाडी की क्रासिंग (C) गाडी को पहले लेने (D) इनमें कोई एक

424. Signals taken OFF for a departing train may be put back to ON

[ ] (A) to avert an accident (B) for crossing of a train

(C) for precedence of a train (D) any of the above

425. कोचिंग गाडियों के पावर इंटरसेप्शन के दौरान, लोको को अलग करने से पहले,

(1) छोर पर दो आयरन स्कीड लगाए जाए

(2) सिरे पर दो जंजीर लगायी जाए

(3) एसएलआर के सभी हैंड ब्रेक लगाए जाए

(4) लोको पायलट एयर प्रेशर को कम करें.

[A] I&II [B] I, II&III [C] I, II,&IV [D] I,III&IV

425. During power interception of coaching trains, before detaching the loco,

[I] two iron skids to be placed at extreme ends

[II] two chains to be applied at exreme ends

[III] Apply hand brakes of all SLRs

[IV] LP to drop Air pressure

[A] I&II [B] I, II&III [C] I,II&IV [D] I,III&IV

Rajbhasha Objective type Questions

1. हिंदी दिवस कब मनाया जाता है.

(A )16 मार्च (B) 14 सितंबर (C) 26 नवंबर (D) 22 जून

1. When Hindi Day is celebrated?

(A) 16 March (B) 14 September (C) 26 November (D) 22 June

2. राजभाषा नीति के अनुसार देश को कितने भागों में विभाजित किया गया है.

( A) 5 ( B ) 7 (C ) 3 (D) 4

2. In how many regions the nation has been divided as per Official Language Policy?

(A) 5 (B) 7 (C) 3 (D) 4

3. संविधान की अष्टम अनुसूची में कितनी भाषाएं है.

(A) 19 (B ) 25 (C ) 22 (D) 20

3. How many Languages have been included in the Eighth Scheduled of the Constitution.

(A) 19 (B) 25 (C) 22 (D) 20

4. संघ की राजभाषा क्या है.

( A) उर्दू (B ) तेलुगू (C) हिंदी (D) तमिल

4. What is the Official Language of India?

(A) Urdu (B) Telugu (C) Hindi (D) Tamil

5. राजभाषा नीति के अनुसार आंध्र प्रदेश और तेलंगाना किस क्षेत्र में आते है.

(A ) ख (B ) ग ( C) घ (D) क

5. Andhra Pradesh and Telangana State comes comes under which region as per O. L. policy?

(A) B (B) C (C) D (D) A

6. राजभाषा नियम किस वर्ष में पारित किया गया.

(A) 1978 (B) 1975 (C) 1976 (D) 1977

6. When was the Official Language Rules Passed?

(A) 1978 (B) 1975 (C) 1976 (D)1977

7. संसदीय राजभाषा समिति के अध्यक्ष कौन है.

(A) राष्ट्रपति (B) उप–राष्ट्रपति (C) प्रधानमंत्री (D) राज्यपाल

7. Who is the Chairman of the Parliamentary Committee on Official Language?

(A) President (B) Vice-President (C) Prime Minister (D) Home minister

8. राजभाषा हिंदी की मान्यता प्राप्त लिपि क्या है.

(A) देवनागरी (B) रोमन (C) फारसी (D) अंग्रेजी

8. What is the recognized Script of Rajbhasha Hindi?

(A) Devanagari (B)Roman (C) Persian (D) English

9. संविधान के किस भाग में अनुच्छेद 343 से 351 तक राजभाषा संबंधी उल्लेख है.

(A) 12 (B) 17 (C) 20 (D) 22

9. In which part of the Constitution are the Article 343 to 351 that gives information about Official Language available?

(A) 12 (B) 17 (C) 20 (D) 22

10. राजभाषा अधिनियम की धारा 3(3) किस वर्ष से लागू हुई.

(A) 1965 (B)1964 (C) 1963 (D) 1962

10. From which year section 3(3) of the Official Language Act take effect?

(A) 1965 (B) 1964 (C)1963 (D) 1962