

QUESTION BANK - 2

1. LSCHBA is provided in the ARNO fitted loco to indicate
(a) BA charger is working (b) QCVAR is working
(c) GR on 0 (d) TM overvoltage
2. If QD is energized in loco
(a) LSP glow (b) Auto sanding (c) notch regression (d) none of above
3. Effective value of RC network capacitance across a3-a4, a5-a6 in WAG7
(a) 25 micro F (b) 30 micro F (c) 50 micro F (d) 100 micro F.
4. SJ is connected in series with
(a) Field of traction motor (b) RPS (c) Shunting resistance (d) Inter pole .
5. UA is connected to Arno U&V phases to read auxiliary Power voltage corresponding to
(a) TM voltage (b) BA voltage (c) charging current (d) OHE voltage.
6. TFVT Input /Output voltage of SIV fitted loco
(a) 110AC/220AC (b) 220AC/110AC (c) 415AC/110AC (d) 415AC/220AC.
7. RGR Resistance value is
(a) 100 Ohms (b) 161 Ohms (c) 1.61 Ohms (d) 262 Ohms
8. R118 Resistance value is
(a) 400 Ohms (b) 0.4 Ohms (c) 4 Ohms (d) 40 Ohms.
9. RHOBA resistance value is
(a) 150 Ohms (b) 200 Ohms (c) 210 Ohms (d) 2000 Ohms.
10. Height of roof (in Panto lock down position) in WAP4 loco
(a) 4205 mm (b) 4161 mm (c) 4232.5 mm (d) 4000 mm.
11. Weight of WAP4 locomotive
(a) 112.8 T (b) 122 T (c) 100 T (d) 120 T.
12. Minimum air pressure to raise in AM-12 panto
(a) 2.5 kg/cm² (b) 3.5 kg/cm² (c) 4.5 kg/cm² (d) 5.5 kg/cm²
13. Cooling of Main Transformer in WAG7

- (a) OF (b) AF (c) OF AF (d) Natural cooling
14. SL 30 current rating in per coil
(a) 1000 AMP (b) 1250 AMP (c) 1350 AMP (d) 1500 AMP
15. SL 30 per coil at rated current inductance value is
(a) 2 mH (b) 3.35 mH (c) 1.25 mH (d) 10 mH
16. In WAP4 HS 15250 A TM current (cont.) is
(a) 840 AMP (b) 750 AMP (c) 750 V (d) 900 AMP
17. In WAP4 RSI rated current is
(a) 5000 AMP (b) 2500 AMP (c) 3300 AMP (d) 2000 AMP
18. Speed of ARNO in WAP4 loco
(a) 1485 RPM (b) 1000 RPM (c) 2885 RPM (d) 600 RPM
19. Speed of MVRH motor is
(a) 2910 RPM (b) 2860 RPM (c) 2800 RPM (d) 1450 RPM
20. In WAG7 Traction Motor HS 15250 A insulation is
(a) H class (b) C class (c) F class (d) B class
21. Cooling of ATFEX by
(a) MVMT1 (b) MVSI (c) MVRH (d) NATURAL
22. Value of each RF resistance is
(a) 5 Ohms (b) 50 Ohms (c) 0.5 Ohms (d) 1.5 Ohms
23. MVSL rating is
(a) 3.5 KW (b) 3.3 KW (c) 2 KW (d) 2.2 KW
24. Air delivery of MVSL is
(a) 50 m³/min. (b) 75 m³/min. (c) 278 m³/min. (d) 100 m³/min.
25. Impeller diameter of MVMT
(a) 496 mm (b) 528 mm (c) 750 mm (d) 500 mm
26. Approximate speed of MCP is

- (a) 2900 RPM (b) 1450 RPM (c) 2800 RPM (d) 960 RPM
27. Minimum voltage pick of QOP relay is
(a) 68 V DC (b) 110 V DC (c) 220 V DC (d) 50 V DC
28. QCVAR pick up voltage is
(a) 157 V AC (b) 157 V DC (c) 220 V AC (d) 100 V DC
29. Circuit breaker Resetting Relay is
(a) Q44 (b) Q118 (c) QPDJ (d) Q45
30. Cut in pressure of QVRH Relay is
(a) 150 mmWG (b) 50 mmWG (c) 20 mmWG (d) 100 mm WG
31. In conventional loco if MP on "0" SMGR on notch , which relay is activated
(a) Q44 (b) Q118 (c) Q46 (d) Q45
32. If QVSL1 is defective in running loco time delay for VCB tripping
(a) 5 second (b) 5.6 second (c) 0.56 second (d) None of above
33. Oil delivery of MPH is
(a) 100 L/min. (b) 150 L/min. (c) 750 L/min. (d) 500 L/min.
34. Air delivery of CPA is
(a) 250 L/min. (b) 300 L/min. (c) 150 L/min. (d) 100 L/min.
35. MCPA rating is
(a) 2 HP (b) 1.5 HP (c) 1 HP (d) 2.2 HP
36. SIV Input supply of 415 V AC, in which make
(a) Hind Rectifier (b) AAL (c) BT (d) ABB
37. C 118 minimum pick up voltage of coil is
(a) 50 V DC (b) 50 V AC (c) 60 V DC (d) 68 V DC
38. RPGR approximate value is
(a) 10 Lakh Ohms (b) 1 Lakh ohms (c) 1000 ohms (d) 100 ohms
39. ET2 gap is

- (a) 105 mm (b) 90 mm (c) 210 mm (d) 200 mm
40. Which type of bearing used in MVSI
(a) 6312 (b) 6313 (c) 6306 (d) 6002
41. In WAG7 loco QD2 relay is provided in between
(a) TM2 & 3 (b) TM4& 6 (c) TM4 & 5 (d) TM5 & 6
42. In WAP4 loco QD pick up current is
(a) 140 AMP (b) 150 AMP (c) 125 AMP (d) 80 AMP
43. Cut in pressure of QVSL relay is
(a) 100 mmWG (b) 50 mmWG (c) 150 mmWG (d) 75 mmWG
44. If VCD activated notch regression through relay
(a) Q51 (b) Q48 (c) Q50 (d) None of these
45. IOH schedule of WAP4 loco after POH is
(a) 18 month (b) 36 month (c) 54 month (d) 48 month
46. POH schedule in WAP4 loco after kilometer is
(a) 12 Lakh (b) 10 Lakh (c) 15 Lakh (d) 08 Lakh
47. In which type loco IB schedule is not necessary
(a) WAG7 (b) WAG5 (c) WAP5 (d) WAP4
48. As Per Latest Rly. Bd's letter TI of WAP4 after
(a) 2000 Km (b) 3000 Km (c) 4500 Km (d) 1500 Km
49. Supply voltage of cab fan in WAP4 loco
(a) 110 VDC (b) 110 VAC (c) 220 VAC (d) 220 VDC
50. Rating of shunt for relay QF1 & QF2
(a) 2000 AMP/285 mV (b) 1000 AMP/285 mV
(c) 100 AMP/200 mV (d) 500 AMP/36 mV
51. In main TFP of WAG7 aux. winding capacity
(a) 2x2700 KVA (b) 5400 KVA (c) 2x135 KVA (d) 200 KVA
52. In WAP4 loco ammeter shunt rating is

- (a) 1000 AMP/60 mV (b) 1500 AMP/60 mV
(c) 1000 AMP/285 mV (d) 2000 AMP/285 mV
53. Q119 relay used for
(a) VEUL Valve (b) Timing of CP contactor (c) MV4 Valve (d) None of these
54. Which is not a direct start Auxiliary.
(a) MVMT1 (b) MVSL1 (c) MPH (d) MVSL
55. In Which position of HMCS1, Q48 will operate in WAP4 locomotive
(a) 1 (b) 2 (c) 3 (d) 4
56. In Which position of HMCS2, Q48 will operate in WAP4 locomotive
(a) 1 (b) 2 (c) 3 (d) 4
57. RC damping for VCB is provided across winding of
(a) Aux. winding of TFP (b) Secondary winding of TFP
(c) Primary winding of TFP (d) None of these
58. What will happen when CCLS melted in running condition
(a) Loco trip (b) Notch becomes zero
(c) All pilot lamp extinguished (d) None of these
59. When RB used which contactor is not in close position in ACMVRF fitted WAG7 loco
(a) C105 (b) C106 (c) C107 (d) C108
60. Run time between two tap of Tap changer (Approx.)
(a) 5 second (b) 0.8 second (c) 3.5 second (d) 0.35 second
61. SL 30 resistance value of is coil
(a) 3.35 Ohms (b) 3 Ohms (c) 0.00359 Ohms (d) 1.5 Ohms
62. Which type of magnetic valve is used in reverser
(a) NC7 (b) NC4 (c) NC6 (d) NC8
63. Type of reverser used in conventional loco
(a) drum type (b) cam type (c) pressure type (d) tips type
64. In conventional loco if tel-tel fuse melted LSRSI glow through relay

- (a) TFP primary winding
(c) ATEFX
- (b) TFP Aux. winding
(d) None of these
78. What will happen if C2H2 is high when DGA checking of TFP oil
(a) arcing in TFP
(c) Strong over heating
- (b) Over heating in TFP
(d) None of these
79. If QFL energized in conventional loco, what will happen
(a) AFL stop working
(c) LSFL not glow
- (b) buzzer stop working
(d) None of these
80. TFP earth by loco body from which bushing
(a) a0 (b) a33 (c) a34 (d) A0
81. In PR1 relay, time lag is
(a) 45 second (b) 60 second (c) 6 second (d) 5 second
82. In WAG7 loco Maximum starting current of RSI is
(a) 3300 AMP (b) 4050 AMP (c) 5000 AMP (d) 3000 AMP
83. In MPCS fitted loco which relay is intact
(a) Q44 (b) Q118 (c) PR1 (d) QFL
84. In ARNO fitted loco contactor closing sequence is
(a) C105 C106 C107
(c) C107 C105 C106
- (b) C106 C107 C105
(d) None of these
85. In case of SIV internal fault loco tripped through
(a) QOA (b) QCON (c) QSVM (d) QSIT
86. Maximum speed of HS 15250 A TM in WAG7 loco
(a) 2500 RPM (b) 1500 RPM (c) 940 RPM (d) 2150 RPM
87. If BPEMS pressed in rear driving cab during running what will happen
(a) DJ tripped (b) Panto down (c) brake applied (d) None of these
88. In which condition fuse melting occurs after HOBA OFF
(a) if any coil shorted
(c) Fuse rating is high
- (b) If negative bonding
(d) None of these
89. if HVSL1 on position II
(a) QVSL1 in service
(c) QVSL1 eliminated
- (b) MVSL1 eliminated
(d) MVSL1 in service
90. In MPCS fitted loco which fuse is not provided
(a) CCDJ (b) CCPT (c) CCLS (d) CCLC
91. If Q50 is energized but LSB not extinguish due to defect of relay
(a) QV61 (b) QV62 (c) QV63 (d) QV64

92. ATFEX rating in WAG7 locomotive is
(a) 60 KVA (b) 80 KVA (c) 100 KVA (d) 120 KAV
93. No load rated out put voltage at 22.5 KV OHE of RSI in WAG7 is
(a) 1000 VDC (b) 1000 VDC (c) 900 VDC (d) 900 VAC
94. Generating phase of ARNO is
(a) U (b) V (c) W (d) Either U or V
95. In ARNO fitted loco CHBA input voltage is
(a) 220 VAC (b) 110 VAC (c) 415 VAC (d) none of these
96. Normal current of MCPA in WAG7 loco is
(a) 5 AMP (b) 5.5 AMP (c) 6 AMP (d) 8.5 AMP
97. Generic type of SIV is provided by the firm
(a) Siemens (b) BT (c) hind Rectifier (d) AAL
98. Gapless lighting arrester is fitted in place of
(a) ET1 (b) ET2 (c) CAPTFP (d) None of these
99. RQOP resistance value of WAP4 loco is
(a) 150 ohms (b) 1500 Ohms (c) 3200 Ohms (d) 210 ohms
100. MPH rating of WAG7 loco is
(a) 5 KW (b) 2.2 KW (c) 3.3 KW (d) 4 KW

