

1. Inspection of level crossing by AEN is ?  
(a) Once in 03 months (b) Once in 04 months  
(c) **Once in 06 months** (d) Once in 01 year.
2. Inspection of Points & Xing by AEN is ?  
(a) Once in 06 months (b) **Once in 01 year**  
(c) Once in 03 months (d) Once in 02 year.
3. Inspection of LWR by AEN is ?  
(a) **Once in 06 months** (b) Once in 03 months  
(c) Once in 01 year (d) Once in 04 months
4. SSE(P.way) I/C should inspect entire section by push trolley/Motor trolley?  
(a) Once in week (b) Once in fortnight  
(c) **Once in 01month** (d) Once in 03 months
5. SSE/P.Way should inspect the level crossing ?  
(a) Once in week (b) Once in fortnight  
(c) **Once in 01month** (d) Once in 06 months
6. SSE(P.way) I/C shall carry out footplate inspection to cover entire section at least ?  
(a) **Once in 01 month** (b) Once in 06 month  
(c) Once in 03month (d) Once in a year
7. SSE(P.way) I/C should inspect all LWR's ?  
(a) Once in a week (b) Once in 06 month  
(c) Once in 03month (d) **Twice in coldest & hottest months.**
8. SSE(P.way), JE/Sec. should inspect the entire section by Push Trolley ?  
(a) Daily (b) Once in a week  
(c) **Once in a fortnight** (d) Once in a months.

9. Keyman should inspect the entire section ?
- (a) **Daily** (b) Once in a week  
(c) Once in 03months (d) Once in 06 months.
10. Keyman should carry out oiling of SEJ ?
- (a) Once in a week (b) Daily  
(c) **Once in fortnight** (d) Once in a months.
11. Walking speed of Keyman should not more than ?
- (a) 01 Kmph (b) 02 Kmph  
(c) **03 Kmph** (d) 04 Kmph.
12. UTS is abbreviated for ?
- (a) **Ultimate Tensile Strength** (b) Universal Turnout standards  
(c) Under tension stress (d) None of these.
13. The flange width of 52Kg. rail is ?
- (a) 150mm (b) 136.5mm  
(c) **136mm** (d) None of these
14. For stacking of 90 UTS rails the level of ground should be ?
- (a) Uneven (b) Even  
(c) **Pucca Cement Concrete** (d) None of these
15. The 1<sup>st</sup> testing after initial laying of rails shall be done after passing ?
- (a) 20% of its stipulated service life (b) Immediately after relaying  
(c) **15% of its stipulated service life** (d) 25% of its stipulated service life
16. Max. clear distance between joint sleeper of fish plated joint is ..... mm ?
- (a) 450mm (b) **200mm**  
(c) 500mm (d) 250mm
17. Permissible maximum wear on a x-ing is ?
- (a) 6mm (b) 5mm  
(c) **10mm** (d) 8mm

18. Permissible vertical wear in a 52 Kg. rail section is ?
- (a) 6mm  
(c) 10mm
- (b) 5mm  
(d) **8mm**
19. In need based system of USFD testing of rails, rail with IMR defect should be replaced within -
- (a) Seven days  
(c) **3 days**
- (b) 10 days  
(d) 1 day
20. Web thickness of 52 Kg. rail is .....
- (a) 15mm  
(c) 16mm
- (b) **15.5mm**  
(d) 16.5mm
21. IMR/IMR (W) shall be marked with ..... ?
- (a) One red cross  
(c) **Three red cross**
- (b) Two red cross  
(d) Four red cross
22. Spacing of concrete sleeper on B.G. LWR track for sleeper density of 1660 sleepers per Km is ... ?
- (a) 50 Cm  
(c) **60 Cm**
- (b) 55 Cm  
(d) 65 Cm
23. Track gauge on PSC sleepers is ... ?
- (a) 1670mm  
(c) 1776mm
- (b) **1673**  
(d) 1680mm
24. Composite sleepers index is the index of ... ?
- (a) **Hardness and strength**  
(c) Toughness and wear resistance
- (b) Strength and toughness  
(d) Wear resistance and hardness
25. The formula of the C.S.I. is ... ?
- (a) **(S + 10H)/20**  
(c) (S + 20H)/10
- (b) (H + 10S)/20  
(d) (H + 20H)/10
26. Length of PSC sleeper is ... ?
- (a) 2550 mm  
(c) **2750 mm**
- (b) 2725 mm  
(d) 3520 mm
27. The function of sleeper is ... ?
- (a) To hold the rails to proper gauge.  
(b) To interpose an elastic medium in between the ballast and rails.  
(c) To distribute the load from the rails to the ballast.  
(d) To support the rails at a proper level in the straight tracks and at proper super elevation on curves.  
(e) **All of the above.**

28. For a Broad Gauge route with M+7 sleeper density, number of sleepers per rail length is ... ?
- (a) 18  
(c) 21
- (b) **20**  
(d) 19 . \
29. What type of fastening is used in concrete sleepers ?
- (a) Conventional  
(c) Semi elastic
- (b) **Elastic**  
(d) None of these .
30. Rail joint supported on a single sleeper is known ?
- (a) Suspended rail joint  
(c) **Supported rail joint**
- (b) Bridge rail joint  
(d) Square rail joint.
31. GFN is abbreviated for ..... ?
- (a) Good formation norms  
(c) Groove fitting nylon liner
- (b) **Glass filled nylon**  
(d) None of them.
32. Creep anchors are usually not provided at ..... ?
- (a) Bridges  
(c) Points & crossings
- (b) **Level crossings**  
(d) All of the above.
33. Pandrol clips can not be used with ..... ?
- (a) Wooden sleepers  
(c) **CST-9 sleepers**
- (b) Concrete sleepers  
(d) Steel through sleepers.
34. Weight of standard keying hammer is ..... ?
- (a) 1.5 Kg.  
(c) 1.7 Kg.
- (b) 1.6 Kg.  
(d) **1.8 Kg.**
35. The cant given in canted bearing plate is ..... ?
- (a) 1 in 15  
(c) **1 in 20**
- (b) 1 in 10  
(d) None of these .
36. The diameter of rail screw is ..... ?
- (a) 20 mm  
(c) 24 mm
- (b) **22 mm**  
(d) 26 mm
37. The toe load of ERC MK III is ..... ?
- (a) 700 – 900 Kgs  
(c) 950 – 1150 Kgs
- (b) **850 – 1150 Kgs**  
(d) None of these.

38. The toe deflection of ERC MK III is ..... ?
- (a) 11.2 mm  
(c) 14.5 mm
- (b) **13.5 mm**  
(d) 15.5 mm .
39. The dia meter of ERC MK III is ..... ?
- (a) **20.6 mm**  
(c) 22.6 mm
- (b) 10.00 mm  
(d) 24.00 mm .
40. The total length of fish plate for 60 Kg. UIC rail section is ..... mm ?
- (a) 410 mm  
(c) 600 mm
- (b) 420 mm  
(d) **610 mm**
41. Length of pitch in 52 Kg. fish plate ?
- (a) **166 mm**  
(c) 165 mm
- (b) 160 mm  
(d) 170 mm .
42. The removal Length of M.S. tie bar is ..... mm for B.G. ?
- (a) 1870 mm  
(c) **2720 mm**
- (b) 2700 mm  
(d) 2730 mm .
43. The length of ordinary fish plate is ..... ?
- (a) 600 mm  
(c) 1000 mm
- (b) **610 mm**  
(d) 650 mm .
44. Which is the recommended width of ballast for BG(A) route ?
- (a) 3650 mm  
(c) 2750 mm
- (b) **3350 mm**  
(d) 2250 mm .
45. Thickness of sub- ballast should not be less than ?
- (a) 200 mm  
(c) **150 mm**
- (b) 250 mm  
(d) 100 mm .
46. The minimum depth of ballast cushion on LWR track is kept ?
- (a) 300 mm  
(c) 200 mm
- (b) **250 mm**  
(d) 150 mm .
47. For point & crossing, standard size of ballast is ?
- (a) 50 mm  
(c) 30 mm
- (b) 40 mm  
(d) **25 mm**

48. Minimum clean ballast cushion in SWR is ?
- (a) 150 mm (b) **200 mm**  
(c) 250 mm (d) 300 mm
49. Maximum width of ballast shoulder on outside of turn in curve on B.G
- (a) 350MM (b) 400MM  
(c) 450M (d) **500MM.**
50. Lifting of Track on other than concrete sleeper is limited upto :-
- (a) 15mm (b) **25mm**  
(c) 30mm (d) 50mm.
51. In Permanent way, ballast is :-
- (a) Transfers load from sleepers to the formation.  
(b) Provides an elastic bed to the track.  
(c) Provides a drainage of track.  
(d) **All the above.**
52. Formation width for bank for single line B.G. railway line is :-
- (a) 5.25 mtrs. (b) 5.85 mtrs  
(c) 6.25 mtrs. (d) **6.85 mtrs.**
53. Formation width for cutting for single line B.G. railway line is :-
- (a) 5.25 mtrs. (b) 5.85 mtrs.  
(c) **6.25 mtrs.** (d) 6.85 mtrs.
54. Centre to centre spacing for formation for double railway line for B.G. is :-
- (a) 4250mm (b) 4725mm  
(c) 5050mm (d) **5350mm.**
55. The bottom of side drains should be below the formation level by at least :-
- (a) 45cm (b) **30cm**  
(c) 35cm (d) 36cm.
56. Cross slope of the formation to have good drainage of the ballast section :-
- (a) 1 in 30 (b) **1 in 40**  
(c) 1 IN 20 (d) 1 in 50.
57. The side slope of formation in embankment is :-
- (a) **2:1** (b) 1:1  
(c) 1:5 (d) 1:3.

58. Formation width for bank for double line B.G. railway line is :-  
 (a) 10.555mtrs. (b) 11.555mtrs.  
 (c) **12.155mtrs.** (d) 12.555 mtrs.
59. Formation width for cutting for double line B.G. railway line is :-  
 (a) 10.155 mtrs. (b) **11.555 mtras.**  
 (c) 12.155mtrs. (d) 23.555 mtras.
60. The catch water drains are provided in the :-  
 (a) Formation in the embankment. (b) **Formation in cutting.**  
 (c) Zero fill formation. (d) None of the above.
61. A switch is :-  
 (a) A pair of tongue rail with necessary connection.  
 (b) **A pair of stock rail and tongue rail with connections of fittings.**  
 (c) A pair of stock rails and a pair of tongue rails with connections  
 (d) None of these.
62. A point is :-  
 (a) A pair of tongue rail with necessary connections.  
 (b) A pair of stock rails with connections.  
 (c) **A pair of tongue rails with their stock rails.**  
 (d) None of these.
63. Switch length is the distance between :-  
 (a) SRJ to HOS. (b) ATS to end of tongue rail  
 (c) **ATS to HOS** (d) TTS to end of stock rail.
64. Lead distance is the distance between :-  
 (a) ATS to TNC (b) HOS to ANC  
 (c) End of stock rail to TNS (d) **HOS to TNC.**
65. Minimum throw of an existing switch for B.G. is :-  
 (a) 89 mm (b) **95 mm**  
 (c) 100 mm (d) 115 mm
66. Maximum throw of an existing switch for B.G. is :-  
 (a) 89 mm (b) 95 mm  
 (c) 100 mm (d) **115 mm**
67. Which of these crossing is not used in Indian Railway :-  
 (a) Built up crossing (b) Cast steel crossing  
 (c) Acute crossing (d) **Square crossing**

68. CMS is abbreviated for :-
- (a) Crossing of mild steel  
(c) Cast iron metal crossing
- (b) **Cast manganese steel crossing**  
(d) Crossing for maximum speed.
69. Flange way clearance is the distance between nose of crossing rails and .....
- (a) Check rail  
(c) Tongue rail
- (b) **Wing rail**  
(d) Point.
70. Wing rails are provided :-
- (a) Near tongue rails  
(c) Near stock rails
- (b) Near check rails  
(d) **In crossing.**
71. In a diamond crossing the number of noses :-
- (a) 2  
(c) **4**
- (b) 3  
(d) 6.
72. Check rail clearances should be in crossing for B.G. (PSC Sleeper) .....
- (a) **41mm – 44mm**  
(c) 48mm – 51mm
- (b) 44mm – 48mm  
(d) 51mm-57mm.
73. Stock rail joint is at a distance of ..... from ATS in 1 in 121 in 12 straight switch is
- (a) 840 mm  
(c) **1500 mm**
- (b) 480 mm  
(d) 1000 mm.
74. Switch length for 1 in 8½ curved switch is :-
- (a) 4725 mm  
(c) 7620 mm
- (b) **6400 mm**  
(d) 7730 mm
75. Switch length for 1 in 12 straight switch is
- (a) 4725 mm  
(c) 7620 mm
- (b) **6400 mm**  
(d) 7730 mm
76. Length of CMS crossing for 1 in 8½ F/S switch 60 Kg. :-
- (a) 3000 mm  
(c) 4300 mm
- (b) **3300 mm**  
(d) 4350 mm
77. Length of CMS crossing for 1 in 12 F/S switch 60 Kg. :-
- (a) 3000 mm  
(c) 4300 mm
- (b) 3300 mm  
(d) **4350 mm**



78. Length of tongue rails for 1 in 8½ curved switch is  
(a) 4725 mm (b) 6400 mm  
(c) **7620 mm** (d) None of these
79. Sleeper no. to be laid perpendicular to main line under switch for 1 in 8½ turnout is  
(a) **1 to 13** (b) 1 to 20  
(c) 14 to 41 (d) 1 to 15
80. Sleeper no. to be laid perpendicular to main line under switch for 1 in 12 turnout is  
(a) 1 to 10 (b) 1 to 13  
(c) **1 to 20** (d) 21 to 64
81. Sleeper no. to be laid at right angle to centre line of crossing for 1 in 8½ turnout is  
(a) 14 to 41 (b) 21 to 64  
(c) **42 to 54** (d) 65 to 83
82. Sleeper no. to be laid at right angle to centre line of crossing for 1 in 12 turnout is  
(a) 14 to 41 (b) 21 to 60  
(c) 60 to 81 (d) **65 to 83**
83. A rail joint requires -----% extra effort in its maintenance compared to normal track?  
(a) 10% (b) 15%  
(c) **25%** (d) 50%
84. In SKV welding the mould is made of ?  
(a) Green sand mould (b) **Pre-tab mould**  
(c) Cast iron mould (d) Cement concrete mould.
85. In flash butt welding process, loss of length of rail per weld is :-  
(a) **20mm** (b) 25 mm  
(c) 30 mm (d) 50 mm
86. Most desirable method of pre heating in AT welding will be  
(a) Air + Petrol (b) **Oxygen + LPG**  
(c) LPG + Petrol (d) Compressed air + Petrol
87. While doing “Through packing” of track, ballast is opened out up to the end of sleeper and in side it is ..... from the rail seat for B.G. ?  
(a) 250 mm (b) 350 mm  
(c) **450 mm** (d) 500 mm

88. Gauge tolerance for B.G. on straight track are :-
- (a) **-6 mm to + 6mm** (b) -3 mm to + 3mm  
(c) -6 mm to + 15mm (d) Up to +20mm
89. Gauge tolerance for B.G. on curves with radius more than 350 m is ?
- (a) -6 mm to + 6mm (b) -3 mm to + 6mm  
(c) **-6 mm to + 15mm** (d) Up to +20mm
90. Gauge tolerance for B.G. on curves for radius shorter than 350 m is ?
- (a) -6 mm to + 6mm (b) -3 mm to + 6mm  
(c) -6 mm to + 15mm (d) **Up to +20mm**
91. In deep screening of track, the normal speed is restored in ..... days , if track is packed manually ?
- (a) 10 days (b) 15 days  
(c) **21 days** (d) 30 days
92. Ridge of ballast in the centre of track should be within ?
- (a) 70 mm (b) 60 mm  
(c) **50 mm** (d) 40 mm
93. During packing, ..... rail shall be treated as base rail on curves ?
- (a) **Inner rail** (b) Outer  
(c) None of these (d) Any of them
94. Duration of post monsoon attention is ..... ?
- (a) 3 months (b) 4 months  
(c) 5 months (d) **6 months**
95. Duration of pre monsoon attention is ..... ?
- (a) **2 months** (b) 4 months  
(c) 5 months (d) 6 months
96. Lifting shall always be done in the direction of ..... grade on single line ?
- (a) Fallings (b) **Rising**  
(c) Any of them (d) None of these
97. Size of fouling mark shall be :-
- (a) 1200x200x100mm (b) **1200x250x150**  
(c) 1500x250x125 (d) None of these

98. In case of stop dead restriction caution indicator shall be provided at ?
- (a) 800 m (b) 1000 m  
(c) **1200 m** (d) 600 m
99. In machine maintained section the depth of crib ballast to be opened out shall be ?
- (a) 50-75 mm (b) 60-80 mm  
(c) **75-100 mm** (d) None of these
100. Height of indicators except termination board from rail level is ?
- (a) **2.0 m** (b) 1.5 m  
(c) 1 m (d) None of these
101. The entire track must be deep screened at least once in ..... year ?
- (a) 12 (b) **10**  
(c) 8 (d) 5
102. Deep screening shall be done in the ..... on double line ?
- (a) Direction of traffic (b) **Opposite to the direction of traffic**  
(c) Can be done on any line (d) None of these
103. The cause of formation of kinks in a rail is ..... ?
- (a) Loose packing at joints (b) **Defect in gauge and alignments**  
(c) Defect in cross level at Joints (d) Uneven wear of the rail head.
104. The work of deep screening shall be done at the speed restriction of minimum ... Km/h ?
- (a) 45 (b) 30  
(c) **20** (d) 15
105. Lifting of track should not exceed ..... mm at a time ?
- (a) 100 mm (b) 75 mm  
(c) **50 mm** (d) 30 mm
106. Frequency of Foot plate inspection by AEN is ..... ?
- (a) Once a fortnight (b) **Once a month**  
(c) Once in 3 month (d) Once six month
107. For maintenance purposes the length of track assigned to a gang is usually
- (a) **5 to 7 Km.** (b) 10 to 12 Km.  
(c) 15 to 17 Km. (d) 20 to 21 Km.

108. Lubrication of fish plated joints shall be done preferably in the month of :-
- (a) **Oct. & Nov.** (b) Dec. & Jan.  
(c) April & May (d) Aug. & Sept.
109. Creep is the :-
- (a) **Longitudinal movement of rail.** (b) Lateral movement of rail  
(c) Vertical movement of rail (d) Difference in the level of two rails.
110. Top of the creep post shall be kept ..... mm above the rail level ?
- (a) 30 mm (b) **25 mm**  
(c) 20 mm (d) 10 mm.
111. Overhauling of track is essential because it improves
- (a) Longitudinal resistance (b) drainage  
(c) Stability of track (d) **General health of the track.**
112. Maximum distance covered in a day by a patrolman should not normally exceed ?
- (a) 2 Km. (b) 5 Km.  
(c) 10 Km. (d) **20 Km.**
113. The track laid over the bridge has rails with cant of
- (a) **1 in 20** (b) 1 in 30  
(c) 1 in 40 (d) 1 in 10.
114. From work spot, banner flag should be placed on B.G. track at
- (a) 100 m (b) 500 m  
(c) **600 m** (d) 1200 m
115. Speed indicator should be placed from work spot at a distance of :-
- (a) 20 m (b) **30 m**  
(c) 50 m (d) 100 m
116. Normal life of detonator is
- (a) 2 years (b) 3 years  
(c) 5 years (d) **7 years**
117. Land boundary inspection is done by PWI once in
- (a) 6 months (b) **a years**  
(c) 3 months (d) None of these.

118. Small track machines are required to ..... ?
- (a) Mechanise the work of sectional gangs  
 (b) Fill up the gap between the working of heavy track machines and manual working.  
 (c) Stretching & compressing both  
 (d) **All the above.**
119. Jim crow is used to ..... ?
- (a) Remove the bends of rail  
 (b) Bend the rail  
 (c) **Bending and debending both**  
 (d) Lifting the rail.
120. Rail tensor is used for ..... the rail ?
- (a) **Stretching**  
 (b) Compressing  
 (c) Stretching & Compressing both  
 (d) None of these
121. Lining of track is corrected by ..... ?
- (a) Two chord system  
 (b) Three chord system  
 (c) **Any of above**  
 (d) None of them
122. Which of the following track machine is dynamic track stabilizer ?
- (a) VDM-800  
 (b) PTV - 800  
 (c) Mastise R-7  
 (d) **DGS – 627**
123. During tamping No. of insertions in case of 25 mm lift in PSC sleeper is ?
- (a) **1**  
 (b) 2  
 (c) 3  
 (d) 4
124. Technical name of the machine used for consolidation of track ?
- (a) **DGS - 62 N**  
 (b) BRM  
 (c) FRM – 80  
 (d) VDM
125. At the close of tamping work, ramp should be flatter than ..... ?
- (a) 1 in 100  
 (b) 1 in 500  
 (c) **1 in 1000**  
 (d) 1 in 1200.
126. Name the latest tie tamping machine in India ?
- (a) Universal machine  
 (b) Unomatic  
 (c) Duomatic  
 (d) **CSM - 09.**
127. Which machine is not a relaying machine ?
- (a) T - 28  
 (b) TRT  
 (c) PQRS  
 (d) **UTV**

128. For ballast cleaning of points & crossing, machine used is ?
- (a) RM - 80  
(c) FRM - 80
- (b) **RM - 76**  
(d) None of these.
129. What are the functions of tamping machines ?
- (a) Correction of alignment  
(c) Packing under sleepers
- (b) Correction of levels  
(d) **All of above.**
130. Name the machine used for shoulder ballast cleaning ?
- (a) RM - 80  
(c) DGN - 62
- (b) **FRM - 80**  
(d) BCM.
131. Dynamic track stabilizer is the machine used for ..... ?
- (a) Tamping  
(c) **Consolidation of ballast**
- (b) Ballast cleaning  
(d) None of these.
132. BRM can move the ballast ?
- (a) From centre towards either side  
(c) Move the ballast towards centre of track
- (b) From one side to other side  
(d) **All the sides.**
133. Which machine is used for turnout renewals ?
- (a) TRT  
(c) **T - 28**
- (b) PQRS  
(d) Rail - VAC
134. Minimum speed restriction to be imposed for track renewal is ..... ?
- (a) Stop dead & 10 Kmph  
(c) 15 Kmph
- (b) 10 Kmph  
(d) **20 Kmph**
135. Which of the following is not tamping machine ?
- (a) Duomatic  
(c) UNIMAT
- (b) CSM  
(d) **UTV**
136. MSP means ?
- (a) Method of short packing  
(c) Maintenance system of packing
- (b) **Measured shovel packing**  
(d) None of these.
137. DTM means ?
- (a) Direct track maintenance  
(c) Day to day track Maintenance
- (b) **Directed track maintenance**  
(d) None of these.

138. TRT consist of ..... cars ?
- (a) 1 (b) 2  
(c) **3** (d) 5
139. The track can be opened with ..... Kmph speed after first tamping of TRT working ?
- (a) 20 (b) 25  
(c) 30 (d) **40**
140. Dehogging of rail ends can be done by ?
- (a) **MSP** (b) Track Machine  
(c) DTM (d) None of these
141. BCM means ?
- (a) Ballast consolidation machine (b) **Ballast cleaning machine**  
(c) Ballast control machine (d) None of these
142. Jurisdiction of PWI incharge on double line on B.G. ?
- (a) 20 – 30 Km. (b) 30 – 40 Km.  
(c) **40 – 50 Km.** (d) 70 – 80 Km.
143. Jurisdiction of PWI incharge on single line on B.G. ?
- (a) 30 – 40 Km. (b) 40 – 50 Km.  
(c) 70 – 80 Km. (d) **90 – 100 Km.**
144. Rail renewal for B.G. 52 Kg. rail section becomes due, when loss of section is .....% ?
- (a) 4.2% (b) 5.0%  
(c) 6.0%. (d) **7.0%**
145. Rail renewal becomes due, when the corrosion in web and foot exceeds .....mm ?
- (a) **1.5 mm** (b) 2.5 mm  
(c) 4.0 mm (d) 5.0 mm
146. Rail renewal becomes due for B.G. 60 Kg. Rail section, when vertical wear exceeds .....mm ?
- (a) 4.5 mm (b) 6 mm  
(c) 8 mm (d) **13 mm**
147. Rail renewal becomes due for B.G. 52 Kg. Rail section, when vertical wear exceeds ..... ?
- (a) 4.5 mm (b) 5 mm  
(c) **8 mm** (d) 13 mm

148. It becomes necessary to carry out through rail renewal when lateral wear exceeds ..... mm for B.G. group A & B routes for curve track ?
- (a) 6 mm (b) **8 mm**  
(c) 9 mm (d) 10 mm
149. Through weld renewal should normally be planned when weld failure in a year exceed ..... per 100 welds ?
- (a) **2** (b) 3  
(c) 4 (d) 5
150. A speed of ..... Kmph is allowed immediately after carrying out track renewal work ?
- (a) 10 Kmph (b) 15 Kmph  
(c) **20 Kmph** (d) 45 Kmph.
151. PSC sleeper in DMT shall be loaded ..... to track ?
- (a) **Perpendicular to track** (b) Along the length of track  
(c) Either a and b (d) None of these.
152. Rated out put of TRT in a gross block of 4 hrs. ?
- (a) **1200 Sleepers** (b) 1400 Sleepers  
(c) 1600 Sleepers (d) 1800 Sleepers
153. What is the gauge of Auxiliary track for working of PQRS ?
- (a) **3400 mm** (b) 3700 mm  
(c) 3000 mm (d) 1676 mm
154. As per IRTMM, the Auxiliary track for PQRS working can be higher than the existing track by not more than ?
- (a) 40 mm (b) **50 mm**  
(c) 25 mm (d) 10 mm
155. Permissible amount of corrosion in foot of rail as criteria for rail renewal is ?
- (a) 3 mm (b) 2 mm  
(c) **1.5 mm** (d) 1 mm
156. Vertical wear permitted for consideration of rail renewal in 52 Kg. rail ?
- (a) 10 mm (b) **8 mm**  
(c) 6 mm (d) 5 mm
157. Through renewal of rubber pads shall be planned after ..... years ?
- (a) 7 (b) 6  
(c) **5** (d) 4



158. The limiting loss of section for track renewal of 60 Kg. rail is .....% ?
- (a) 4% (b) 6%  
(c) **8%**. (d) 10%
159. The lateral wear is to be measured at point ..... to ..... mm below rail table ?
- (a) **13 to 15mm** (b) 12 to 14 mm  
(c) 14 to 16 mm (d) None of these.
160. The average life of a concrete sleeper is .....?
- (a) 40 to 50 years (b) **50 to 60 years**  
(c) 60 to 70 years (d) None of these.
161. In new Rail as well as second hand rails how much end bends of the rails in vertical are permitted when checked with one meter straight edge before welding?
- a) **+0.5mm, -0 mm in vertical \*** b) +0.2mm, -.3 mm in vertical  
c) +0.3mm, -2 mm in vertical d) 0 mm, +.5 mm in vertical
162. In new Rail as well as second hand rails how much end bends of the rails in lateral direction are permitted when checked with one metre straight edge before welding?
- a)  $\pm 0.2$  mm in lateral direction b)  $\pm 0.3$  mm in lateral direction  
c)  **$\pm 0.5$  mm in lateral direction\*** d) All are above right
163. What is the life of portion?
- a) 2 years b) **No specific life.**  
c) 6 months d) 1 year
164. Life of Portion mainly depend upon?
- a) Quality of packing b) Storage condition  
c) **Quality of packing and storage condition.** d) Ingredients of portions
165. How rejected portion are to be disposed-off?
- a) **By Igniting 5 Portions at a time in pit away from store?\***  
b) By throwing them away  
c) By dispose off in a pit  
d) By using it in Branch/Yard lines for welding
166. Where Portion sample tests(test piece) should be conducted?
- a) At desire by RDSO b) **At Zonal CMT's organisation or the Flash Butt Welding plant.**  
c) In RDSO campus d) As decided by in charge of the plant

167. The composition of thermit welding team?
- a) 7 Nos. **b) 8 Nos.\***  
c) 6 Nos. d) 9 Nos
- 168.. What is the duration for Initial course for welders (TW-1)?
- a) Two weeks\*** b) One week  
c) As decided by TPP/LKO d) 3 working days
169. What is the duration for Refresher course for welders (TW-2)?
- a) One week\*** b) Two weeks  
c) As decided by TPP/LKO d) 3 working days
170. What is the duration for supervisors course (TW-3)?
- a) One week \*** b) Two weeks  
d) As decided by TPP/LKO d) 3 working days
171. Type of competency certificate issued after TW-1 course?
- a) Competency for two years **b) Provisional competency.**  
c) Competency for six months d) Competency to do welding independently
172. What is the validity of Provisional competency certificate?
- a) Valid for executing 50 joints or six months whichever is earlier.
- b) Valid for executing 100 joints or six months whichever is earlier.\***
- c) Valid for executing 50 joints. d) Valid for six months
173. What is the validity after Refresher course for welders (TW-2)?
- a) Six monyhs b) One year  
**c) Two years.\*** d) All are wrong
174. What is the validity after supervisors course (TW-3)?
- a) Normally, supervisors shall not be required to undergo the course again. However, they may be sent for course on performance basis.\***
- b) 2 years c) 5 Years d) 10 Years
175. How much rail ends are cleaned with Kerosene Oil and steel wire brush?
- a) Minimum 100 mm both side **b) Minimum 50 mm both side.**  
c) No need d) As decided by site supervisor



186. Early tapping will cause defect of ?
- a) No defect  
c) Inclusion of aluminium
- b) Inclusion of slag**  
d) Inclusion of ferrous
187. Risers are broken at?
- a) cold. \***  
c) After 5 mints
- b) Hot  
d) After 3 mints
188. Pressure of compressed air is kept during preheating by CAPS?
- a) 1 to 2 kg/cm<sup>2</sup>  
c) 2 to 3 kg/cm<sup>2</sup>
- b) .1 to .2 kg/cm<sup>2</sup>  
**d) 0.2 to 0.3 kg/cm<sup>2</sup>\***
189. Crucible is repaired by?
- a) Magnesite Powder  
c) Sodium Silicate
- b) Magnesite Powder & Sodium Silicate.**  
d) Aluminium powder
190. Function of Calcium fluoride/flour spar in portion is?
- a) To separate slag\***  
c) To separate ferrous
- b) To separate aluminum  
d) No separation
191. Finished tolerance on 1 Mt. st. edge at the centre on gauge side shall be?
- a) ± 0.2 mm  
c) ± **0.5 mm\***
- b) ± 0.3 mm  
d) ± 1.0 mm
192. Finished tolerance on 1 Mt. long st. edge on surface of head shall be?
- a) 0 to .1 mm  
c) 0 mm
- b) 1 to 1.5 mm  
**d) 0 to 1 mm\***
193. Finished tolerance on 10 cm long st. edge at the centre on gauge side shall be?
- a) ± 0.4 mm  
c) ± 0.2 mm
- b) ± 0.1 mm  
**d) ± 0.3 mm\***
194. Finished tolerance on 10 cm. long st. edge on surface of head shall be?
- a) 0 to 0.1 mm  
c) **0 to 0.4 mm\***
- b) 0 to 0.2 mm  
d) 0 to 0.3 mm
195. Min<sup>m</sup>. deflection during transverse breaking load test is?
- a) 5 mm  
c) **15 mm\***
- b) 10 mm  
d) 20 mm

196. Min. breaking load of 52kg weld during transverse breaking load test is?  
a) **90MT\*** b) 100 MT  
c) 110 MT d) 120 MT
197. Min. breaking load of 60kg weld during transverse breaking load test is?  
a) 110 MT b) **115 MT\***  
c) 90 MT d) 120 MT
198. To take care of differential cooling rail ends of 72 UTS rails are lifted by?  
a) 1 to 1.5 mm b) 1 to 2 mm  
c) 2 to 2.5 mm d) **3 to 4 mm \***
199. The colour of bag containing Portion for 72 UTS ?  
a) Pink b) Green  
c) **Red \*** d) Black
200. The colour of bag containing Portion for 90 UTS ?  
a) Red b) **Green \***  
c) Pink d) Black
201. The colour of bag containing Portion for 110 UTS ?  
a) Red b) Green  
c) Pink d) **Black \***
202. Pressure of LPG during pre-heating shall be?  
a) 2.0 - 2.5 kg/ sq cm b) 2.0 - 2.5 kg/ sq cm  
c) **2.0 - 2.5 kg/ sq cm\*** d) 2.0 - 2.5 kg/ sq cm
203. Pressure of Oxygen during pre-heating shall be?  
a) 4.0 – 5.0 kg/ sq cm b) 5.0 – 6.0 kg/ sq cm  
c) 6.0 – 7.0 kg/ sq cm d) **7.0 – 8.0 kg/ sq cm \***
204. Defect of Blow holes is due to?  
a) Slag b) **Moisture**  
c) Lack of heating d) Extra heating
205. Heating time with compressed air and petrol in SPW is ?  
a) **4.0 to 4.5 minutes.\*** b) 4.0 to 5 minutes  
c) 5.0 to 5.5 minutes d) 5.5 to 6 minutes



216. How many nos. of sleepers should be loosened either side of the proposed weld?
- a) 3 sleepers  
c) 2 sleepers
- b) 5 sleepers.**  
d) 4 sleepers
217. No of Ingredient of Portion are?
- a) Five.  
c) **Seven\***
- b) Six  
d) Eight
218. Height of crucible is kept from top surface of mould?
- a) 30 mm  
c) **50 mm\***
- b) 40 mm  
d) 60 mm
219. Torch is kept at height from top surface of rail head?
- a) 30 to 55 mm  
c) **40 to 45 mm\***
- b) 35 to 40 mm  
d) 45 to 50 mm
220. Which gauge is used to measure the height of rail at the time of aligning of rails for AT welding?
- a) **Height gauge.\***  
c) Horizontal gauge
- b) Vertical gauge  
d) As decided by site supervisor
221. Full form of SPW?
- a) Special pre heated weld  
c) Short post heated weld
- b) Short preheated weld.**  
d) None of above
222. Grade of 90 UTS rail is?
- a) **880\***  
c) 710
- b) 1080  
d) None of above
223. Grade of 110 UTS rail is?
- a) 880  
c) 710
- b) 1080**  
d) None of above
224. Grade of 72 UTS rail is?
- a) 880  
c) **710\***
- b) 1080  
d) None of above
225. Defect of cracks in weld is mainly due to?
- a) **Early opening of mould.\***  
c) Early grinding of weld
- b) Early trimming of weld  
d) None of above

226. Defect of short of metal is mainly due to?
- a) Less gap  
c) Less weight of position
- b) Excessive gap**  
d) None of above
227. Defect of low joint is due to?
- a) Excess height  
c) Early grinding of weld
- b) Early trimming of weld  
**d) Nil/Less provision of height during alignment.\***
228. Defect of High joint is due to ?
- a) Early trimming of weld  
c) Early grinding of weld
- b) Excess provision of height during alignment.**  
d) None of above
229. Defect of lack of fusion is mainly due to?
- a) Improper heating.\***  
c) Improper grinding
- b) Improper Gap  
d) None of above
230. Late tapping will cause defect of?
- a) Lack of fusion (Heat losses)\***  
c) Half moon defect
- b) Piping defect  
d) None of above
231. Thickness of Lining/Charge is kept?
- a) 20 mm.  
c) 30 mm
- b) 25 mm\***  
d) As decided by the site supervisor
232. Head of closing pin is covered with
- a) Asbestos powder  
**c) Asbestos powder than slag\***
- b) Slag Powder  
d) None of above
233. How many grams asbestos powder is used to cover head of closing pin ?
- a) 2 grams  
c) 4 grams
- b) 3 grams  
**d) 5 grams\***
234. What will happen if slag is not used above the layer of asbestos powder?
- a) Auto tapping\***  
c) Low welding
- b) High welding  
d) Nothing will happen
235. What is mould waiting time?
- a) 3 to 5 minutes.  
c) 3.5 to 5.5 minutes
- b) 4 to 6 minutes\***  
d) 4.5 to 6.5 minutes







256. Till USFD testing of new AT weld what is criteria for joggling ?
- a) Joggling with two far end bold  
 c) Leave without joggling till its testing
- b) Joggling with two tight clamps\***  
 d) None of the above
257. What is the testing frequency of new AT weld ?
- a) Just after the welding  
 c) **With in the one month of welding\***
- b) After 7 days of welding  
 d) None of the above
258. After declare good in USFD testing what is the joggling criteria ?
- a) Joggle will be open from the AT weld\***  
 c) joggling with four tight bold
- b) Joggling with two far end bolting  
 d) None of the above
259. USFD testing of new AT weld will be done by ?
- a) JE/SSE sectional  
 c) **USFD machine operator\***
- b) Incharge SSE  
 d) None of the above
260. Testing of AT weld shall be done from ?
- a) SRT  
 c) **Digital weld tester**
- b) DRT  
 d) None of the above
261. After how much time lining of crucible should be changed ?
- a) After every weld  
 c) **After every 10 welds\***
- b) After 7 welds  
 d) None of the above
262. After Trimming of AT weld should be done by ?
- a) Chisel  
 c) Both
- b) Trimmer\***  
 d) None of the above
263. What is the app. Weight of 52 kg portion?
- a) 10 kg  
 c) 12 kg
- b) 11 kg\***  
 d) None of the above
264. What is the app weight of 60 kg portion ?
- a) 11 kg  
 c) **13 kg\***
- b) 12 kg  
 d) None of the above
265. What is the dia of thimble ?
- a) 14-16 mm  
 c) 18-20 mm
- b) 16-18 mm\***  
 d) None of the above

266. Ignition rod can be ignited from ?
- a) Match box  
c) From fire
- b) Ignition match\***  
d) None of the above
267. In AT welding process what is the role of closing pin ?
- a) To hold the portion before melt  
**c) Both above are correct\***
- b) To hold the asbestos powder & slag  
d) None of the above
268. In AT welding process what is the role of asbestos powder & slag ?
- a) To separate closing pin from portion\***  
c) Both above are correct
- b) To hold the portion  
d) None of the above
269. Steep gradients which need extra engine for hauling is known as
- a) Pusher gradient\***  
c) Reasonable gradient
- b) Rulling Gradient  
d) Momentum gradient
270. Rising gradient followed by a falling gradient is known as
- a) Rulling gradient  
c) Pusher graient
- b) Momentum gradient\***  
d) Aangular gradient
271. Track Structure for private siding with operating speed of 80 to 100 kmph is same as the track structure as specified for
- a) Group B route  
**c) Group D route\***
- b) Group A route  
d)Group C route
273. Track structure for private siding with operating speed 50 to 80 kmph is the same as track structure as specified for
- a)Group A route  
c) Group D route
- b) Group B route  
**d)Group E route\***
274. Indicate which of the statement is incorrect with regard to coning of Wheels
- a)coning of wheels help the vehicle to negotiate a curve smoothly  
b) It helps in smooth riding  
**c) It increases wear and Tear of wheel flanges\***  
d) it enables the outer wheel of vehicle to take a longer distance  
e) it restricts the swaying of vehicles
275. Tilting of rails is done at a slope of
- a. 1 in 30  
**c. 1 in 20\***
- b. 1 in 25  
d. 1 in 15



285. What is the Highest speed of train in Indian Railway
- a. 140 KMPH  
**c. 160 kmph\***
- b. 120 kmph  
d. 130 kmph
286. How many divisions in East Central Railway
- a. 5\***  
c. 6
- b. 4  
d. 3
287. What do you mean by BG
- a. Big Gauge  
c. Buffer gauge
- b. Broad Gauge\***  
d. None of above
288. What do you mean by RDSO
- a. Research & Development Standard organisation\***  
b. Railway Development & Standard organization  
c. Regional Development & Standard organization  
d. None of above
289. Where is the Head Quarter of Northern Railway
- a. New Delhi\***  
c. Mumbai
- b. Lucknow  
d. Calcutta
290. What is the highest post in Railway
- a. General Manager  
**c. Chairman Railway Board\***
- b. Chief Engineer  
d. Divisional Railway Manager
291. What is the standard distance between lines in Broad Gauge
- a. 1670 mm  
c. 1665 mm
- b. 1676 mm\***  
d. 1680 mm
292. What do you mean by LWR
- a. Long welded Rail\***  
c. Linear welded rail
- b. Long weld able Rail  
d. None of above.
293. On the basis of temperature how many zones are in Indian railway
- a. 2  
**c. 4\***
- b. 6  
d. 7
294. What is the minimum distance centre to centre of straight tracks for new works/alterations to existing works.
- a. 4265 mm.  
**c. 5300 mm.\***
- b. 3660 mm.  
d. 4365 mm.

295. What is the full form of OMS used for track recording
- a. Outer most Surface  
c. Only measuring system
- b. Oscillation Monitoring system\***  
d. Official measurement system
296. ADEN shall inspect AT welding site atleast.
- (a) Once in a month**  
(c) Once in 3 month
- (b) Twice a month  
(d) Once in 6 months
297. On foot inspection by sectional PWI ...
- (a) once in month  
(c) once in for month
- (b) once in six month**  
(d) once in a year
298. Curve inspection on A & B route should be done by PWI
- (a) once in three months  
(c) once in six months
- (b) once in four months**  
(d) once in a year
299. Inspection of SEJ should be done by sectional PWI
- (a) once in month  
(c) once in fortnight
- (b) once in two month**  
(d) once in six month
300. The ADEN should inspect all the bridges in his section
- (a) Once in two month  
(c) Once in four month
- (b) Once in six month  
**(d) Once in a year**
301. OMS-2000 measures the following important parameter
- (a) Gauge & unevenness  
**(c) Lateral & Vertical acceleration**
- (b) Speed of train  
(d) Super elevation
302. OMS peak above..... is attended urgently
- (a) 0.2g  
**(c) 0.35g**
- (b) 0.3g  
(d) 0.4g
303. Frequency of TRC on 'A' route....
- (a) In two month  
(c) In every month
- (b) In three month**  
(d) In four month
304. TGI categories is outstanding when...
- (a) >80**  
(c) >100
- (b) <90  
(d) >75
305. TMS is known as .....
- (a) Track Monitoring System  
(c) Track Maintenance System
- (b) Track Management System**  
(d) Track Measurement System

306. What is the frequency of track recording of the sections having speed more than 110 kmph to 130 kmph
- a. 4 Months  
b. 2 Months  
c. 6 Months  
**d. 3 Months\***
307. What is the full form of PQRS used for Track renewal works.
- a. **Plasser quick Relaying system\***  
b. Please quick return services  
c. Poor Quality renewal system  
d. None of above
308. Minimum radius of curve on Broad gauge
- a. **175 meter\***  
b. 215 meter  
c. 146 meter  
d. 200 meter
309. What is the formula of TGI for track recording
- a.  $UI+4TI+6GI+AI/10$   
b.  **$2UI+TI+GI+6AI/10*$**   
c.  $3UI+TI+2GI+5AI/10$   
d.  $2UI+2t+2GI+4AI/10$
310. What is the limit of Unevenness of A category of track
- a. 0 to 10 mm  
b. 0 to 5 mm  
c. **0 to 6 mm\***  
d. 0 to 8 mm
311. What is the difference between rail flange of 60 kg & 52 rail section
- a. 20 mm  
b. 18 mm  
c. **14 mm\***  
d. 16 mm
312. What is the value of long chord for measuring unevenness in track recording
- a. 3.6 meter  
b. **9.6 meter\***  
c. 7.2 meter  
d. 4.8 meter
313. Frequency of TTM tamping on PSC sleepers track
- a. **2 years or 100 GMT which ever is earlier\***  
b. 2 years or 150 GMT which ever is earlier  
c. 1.5 years or 200 GMT which ever is earlier  
d. 2 years or 175 GMT which ever is earlier
314. How many sleepers are there in Fan shaped 1 in 12 turnout
- a. 85 sleepers  
b. **96 sleepers\***  
c. 90 sleepers  
d. 100 sleepers
315. Minimum wing rail clearance opposing nose of crossing on Fan shaped turnout
- a. 45 mm  
b. 40 mm  
c. **41 mm\***  
d. 44 mm



316. Overall length of fan shaped 1 in 12 Turnout  
**a. 39975 mm\*** b. 41004 mm  
c. 28613 mm d. None of above
317. What is the full form of TGI  
**a. Track Geometry Index\*** b. Track general Index  
c. Track gravity Index d. None of above
318. Permissible speed of Turnout with 1 in 12 curved switches  
**a. 40 kmph\*** b. 25 kmph  
c. 15 kmph d. 20 kmph
319. Permissible speed of Turnout with 1 in 8.5 curved switches  
a. 40 kmph **b. 25 kmph\***  
c. 15 kmph d. 20 kmph
320. The formation provides :-  
(a) Elasticity and resilience to track **(b) Evenness and alignment to track**  
(c) Stability to track (d) None of these.
321. How many green flags are with Patroller during Hot weather patrolling.  
a. 02 b. 03  
c. 01 **d. None of above\***
322. Lowest level of staff/supervisor competent for TTM tamping operation in LWR/CWR.  
a. Gang Mate b. PWS  
**c. PWI\*** d. Keyman.
323. Lowest level of staff/supervisor competent for Lifting/Lowering of track in LWR/CWR.  
a. Keyman. b. Gangmate.  
c. PWI. **d. PWS.\***
324. Lowest level of staff/supervisor competent for packing or renewal of single isolated sleeper not requiring lifting or slewing of track in LWR/CWR.  
a. PWI b. Keyman  
**c. Gangmate\*** d. PWS
325. Lowest level of staff/supervisor competent of Renewal of fastenings not requiring lifting in LWR/CWR.  
a. PWS b. Gangmate  
**c. Keyman\*** d. Gangman
326. Lowest level of staff/supervisor competent for Renewal/recouplement of fastenings requiring lifting in LWR/CWR.  
a. PWS **b. Gangmate\***  
c. Keyman d. Gangman



337. Maximum distance apart of trolley refuges on bridges with main spans of 100metre or more is  
 a. 50 mtr  
 b. 100 mtr  
 c. 200 mtr  
**d. a refuge over each pair\***
338. Permissible creep in track is  
 a. 50 mm  
 b. 100 mm  
 c. 125 mm  
**d. 150 mm.\***
339. Which of the following is a small track machine  
 a. Ballast regulating Machine.  
 b. Should Ballast cleaning machine  
 c. Ballast cleaning Machine.  
**d. Abrasive rail cutter machine**
340. Curve inspection shall be carried out by Sectional PWI  
 a. Once in three months  
 b. Once in six months  
**c. Once in four months\***  
 d. None of above
341. An accident has taken place at out station and main line is blocked and relief train is to be turned out without medical car. The hooter shall be:  
 a. 3 long  
**b. 4 long\***  
 c. 4 long, 1 short  
 d. 3 long, and 1 short
342. Minimum speed restriction to be imposed for Track renewal is:-  
 (a) Stop dead & 10 Kmph  
 (b) 10 Kmph  
 (c) 15 Kmph  
**(d) 20 Kmph\***
343. Service life in terms of total GMT carried for 52 kg. 90 UTS rail is:-  
 (a) 425 GMT  
 (b) 475 GMT  
**(c) 525 GMT\***  
 (d) 545 GMT
344. Minimum rail section recommended for section having traffic more than 20 GMT is  
 (a) 90 UTS  
 (b) 52 Kg.  
**(c) 60 Kg.\***  
 (d) None of the above.
345. Lubrication of ERC and inserts in corrosion prone areas and platform line is done:-  
 (a) Once in a month.  
 (b) Once in a fortnight.  
 (c) Once in a week.  
**(d) Once in a year.\***
346. Vertical wear permissible for 60kg/90UTS. rails is:-  
 (a) 23 mm.  
 (b) 10 mm.  
**(c) 13 mm.\***  
 (d) 15 mm.

347. Permissible wear of web & foot of rail due to corrosion is:-
- (a) 15 mm. (b) **1.5 mm.\***  
(c) 0.5 mm. (d) 2.5 mm.
348. Minimum depth of ballast cushion below the bottom of sleeper at the rail seat on BG group A route should be :-
- (a) 350 mm. (b) 250 mm.  
(c) **300 mm.\*** (d) 325 mm.
349. Sleeper density for group 'A' route with traffic density more than 20 GMT is:-
- (a) 1560 sleepers/ Km. (b) **1660 sleepers/ Km.\***  
(c) 1540 sleepers/ Km. (d) 1340 sleepers/ Km.
350. Track structure for CC+8 t+ 2 t loaded trains is:-
- (a) 52 Kg 90 UTS;PSC 1540 sleepers/ Km.; 250 mm ballast.  
(b) **60 Kg 90 UTS;PSC 1660 sleepers/ Km.; 300 mm ballast.\***  
(c) 52 Kg 72 UTS;PSC 1540 sleepers/ Km.; 300 mm ballast.  
(d) 90 R;PSC 1340 sleepers/ Km.; 250 mm ballast.
351. Deep screening of entire track must be done at least:-
- (a) Once in a quarter. (b) Once in a year.  
(c) Once in 5 years. (d) **Once in 10 years.\***
352. Service life of Glued insulated rail joint of 60 Kg rail is:-
- (a) 300 GMT. (b) **200 GMT.\***  
(c) 400 GMT. (d) 150 GMT.
353. Service life of improved SEJ of 60 Kg rail is:-
- (a) 400 GMT. (b) 300 GMT.  
(c) **200 GMT.\*** (d) 150 GMT.
354. Service life of CMS crossing ( 52 Kg rail) is:-
- (a) 400 GMT. (b) 300 GMT.  
(c) 200 GMT. (d) **150 GMT.\***
355. D&G charges for works estimates of CTR(P) is:-
- (a) 2.25%. (b) **1.8%.\***  
(c) 1.35%. (d) 1.62%.

356. What is speed restriction on deep screening site done by BCM and tamped by machine followed with DGS?
- (a) 20 (b) 30  
(c) **40\*** (d) 10
357. Frequency of trolley inspection by sectional PWI on concrete sleepers track maintenance by machines
- (a) once a month (b) **once in fortnight**  
(c) once a week (d) once in two month
358. Frequency of trolley inspection by incharge PWI on concrete sleepers track maintenance by machines
- (a) **once a month** (b) once in fortnight  
(c) once a week (d) once in two month
359. Frequency of Push trolley inspection by ADEN....
- (a) **once a month** (b) once in fortnight  
(c) once a week (d) once in two month
360. Average time taken for welding 52 kg rail in flash butt welding plant is approximately .....minutes
- (a) 3 minutes (b) **6 minutes**  
(c) 9 minutes (d) 11 minutes
361. Maximum distance between trolley refuges in cuttings is.....
- (a) 200m on straight (b) 150m on straight  
(c) 250m on straight (d) 100m on straight
362. Lifting of track by gang in single line should be done in the direction of .....
- (a) **Rising gradient** (b) Falling gradient  
(c) Any direction (d) **None of these**
363. Point & Crossing is done by PWI on Passenger running line is ...
- (a) once in one month (b) once in two months  
(c) **once in three months** (d) once in six months
364. Point & Crossing inspection is done by PWI on Non Passenger running line is ...
- (a) once in one month (b) once in three months  
(c) **once in six months** (d) once in a year
365. In TRC Track parameters are recorded in a block of length .....
- (a) 100m (b) 50m  
(c) 150m (d) **200m**

366. Radius of 1° curve is .....
- (a) **1750 m** (b) 1650 m  
(c) 1550 m (d) None of these.
367. Radius of 2° curve is ..... ?
- (a) **875 m** (b) 775 m  
(c) 675 m (d) 675 m
368. Gauge is recorded by spring loaded feelers ..... mm below the rail surface ?
- (a) 20 (b) **14**  
(c) 10 (d) Zero
369. Oscillograph cars are run to assess the riding quality in the form of ?
- (a) Lateral accelerations (b) Vertical accelerations  
(c) **Both (a) and (b)** (d) None of these.
370. Recording by oscillograph car below .....Kmph shall be taken as non recorded ?
- (a) 60 (b) 70  
(c) **80** (d) 100.
371. Frequency of track recording on routes above 130 Kmph is once in ..... months ?
- (a) 6 (b) 3  
(c) **2** (d) 1
372. Frequency of oscillograph run on routes < 130 Kmph once in ..... months ?
- (a) 3 (b) 4  
(c) **6** (d) 12
373. Who is responsible for the safe custody of tools used by keyman and track maintainers ?
- (a) Keyman (b) **Mate**  
(c) JE (P.Way) (d) None of these.
374. Muster and gang chart is usually in the possession of
- (a) Keyman (b) **Mate**  
(c) Gateman (d) None of these.
375. Which of the following is a small track machine ?
- (a) Off track Tamper (b) Abrasive rail cutter  
(c) Rail drilling machine (d) **All of these.**
376. TMS stand for ?
- (a) Track monitoring system (b) Track modernization system  
(c) **Track management system** (d) Track maintenance system.
377. Sand Hump shall be inspected by ADEN once in .... ?
- (a) **a year** (b) 6 months  
(c) 2 years (d) None of these.
378. OMS stands for ?
- (a) Old maintenance system (b) Optimum mechanized system  
(c) **Oscillation monitoring system** (d) None of these.

379. At all unmanned level crossing with metallised approach, where motor vehicles ply, a series of 3 speed breaks (bumps) spaced at .....m apart should be provided on either side of the level crossing within railway boundary.
- (a) 50 m (b) **100 m**  
(c) 150 m (d) 200 m
380. Frequency of B.G. track recording on sections where speeds are between 110 Km/h and 130 km/h is once in ....?
- (a) 2 months (b) 3 months  
(c) 4 months (d) **6 months**
381. TGI less than ..... is called below average ?
- (a) 20 (b) **36**  
(c) 30 (d) 50
382. For protection of level crossing gate in an emergency on B.G double line, the section gateman should place one detonator at one place and three detonator at subsequent place of a distance of .....m and ..... respectively
- (a) 400 m & 800 m (b) 500 m & 1000 m  
(c) **600 m & 1200 m** (d) 500 m & 1200 m
383. TGI for newly laid track is ?
- (a) **100** (b) 80  
(c) 120 (d) 240
384. Which of the following is a track machine ?
- (a) TRT (b) DTS  
(c) SQRS (d) **All of the these.**
385. On straight B.G. track permissible tolerance in squareness of joint in new track laying ... mm ?
- (a)  $\pm 5$  mm (b)  **$\pm 10$  mm**  
(c)  $\pm 12$  mm (d)  $\pm 15$  mm.
386. Variation in sleeper spacing shall not be more than ..... mm in case of primary track renewals of B.G. ?
- (a)  $\pm 10$  mm (b)  $\pm 15$  mm  
(c)  **$\pm 20$  mm** (d)  $\pm 25$  mm.
387. Cross level variation shall not be more than ..... mm for laying of B.G. new track ?
- (a)  $\pm 10$  mm (b)  **$\pm 3$  mm**  
(c)  $\pm 4$  mm (d)  $\pm 5$  mm.
388. No. of staff permitted for push trolley ?
- (a) 2 (b) **4**  
(c) 6 (d) 8.
389. No. of staff permitted for motor trolley ?
- (a) 2 (b) 4  
(c) **6** (d) 8.

390. Short chord for unevenness in TRC is ----- meter .  
 (a) **9 meter** (b) 3 meter  
 (c) 15 meter (d) 18 meter
391. Long chord for unevenness in TRC is ----- meter .  
 (a) 9 meter (b) 3 meter  
 (c) 15 meter **(d) 18 meter**
392. Short chord for alignment in TRC is ----- meter .  
 (a) **9 meter** (b) 3 meter  
 (c) 15 meter (d) 18 meter
393. Long chord for alignment in TRC is ----- meter .  
 (a) 9 meter (b) 3 meter  
 (c) **15 meter** (d) 18 meter
394. Short chord for twist in TRC is ----- meter .  
 (a) 9 meter **(b) 3 meter**  
 (c) 15 meter (d) 18 meter
395. Long chord for twist in TRC is ----- meter .  
 (a) 9 meter (b) 3 meter  
 (c) **15 meter** (d) 18 meter
396. Frequency of track recording is ----- months for the route with speed above 130 kmph .  
 (a) **2 month** (b) 3 month  
 (c) 4 months (d) 6 months
397. Frequency of track recording is ----- months for speed over 110 to 130 kmph .  
 (a) 2 month **(b) 3 month**  
 (c) 4 months (d) 6 months
398. Frequency of track recording is ----- months for the route with speed above 100 and upto 110.  
 (a) 2 month (b) 3 month  
 (c) **4 months** (d) 6 months
399. Frequency of track recording is ----- months for the route with speed upto 100 kmph.  
 (a) 2 month (b) 3 month  
 (c) 4 months **(d) 6 months**
400. In a curve versine is -----mm per degree of curvature.  
 (a) 20 mm (b) 25 mm  
 (c) **28 mm** (d) 35 mm
401. Transition curve is situated at ----- of curve.  
 (a) **Both ends** (b) At Centre  
 (c) Anywhere (d) After tangent point



402. Circular curve keeps the full amount of ----- and -----.
- (a) Cant excess  
(c) Cant deficiency
- (b) Versine and Super elevation**  
(d) Above all
403. At all manned level crossing, where visibility is poor, about 15 to 20 ramble strips should be provided spaced at .....metres from centre to centre.
- (a) 0.5 m  
(c) 1.5 m
- (b) 1.0 m**  
(d) 2.0 m
404. Inner Rail is called ----- rail in a curve.
- (a) Straight Rail  
(c) **Reference Rail**
- (b) Elevated rail  
(d) Above all
405. Super elevation is provided to ----- the centrifugal forces due to higher speed.
- (a) Increase  
(c) **Counter balance**
- (b) Decrease  
(d) Above all.
406. Ballast profile in outer side of curve is 100mm high in ----- mm.
- (a) 350 mm  
(c) 750 mm
- (b) 500 mm**  
(d) 250 mm
407. In a curve stations are painted at -----in interval.
- (a) 1.5 meter  
(c) 20 meter
- (b) 10 meter**  
(d) 3.2 meter.
408. Versine is measured on -----meter chord in a curve.
- (a) 10 m  
(c) 30 m
- (b) 20 m**  
(d) 40 m.
409. Maximum Super elevation in BG for high speed is ----- .
- (a) 165 mm**  
(c) 150 mm
- (b) 140mm  
(d) 190mm.
410. Maximum Super elevation in new lines can be provided with the permission of CE ---mm.
- (a) 165 mm  
(c) 190mm
- (b) 185 mm**  
(d) 150 mm.
411. Maximum permissible degree of curvature in BG is ----- .
- (a) 10 Degree**  
(c) 8 Degree
- (b) 12 Degree  
(d) 15 Degree.
412. Maximum cant excess permissible in BG is ----- mm .
- (a) 100 mm  
(c) 65 mm
- (b) 75 mm**  
(d) 165 mm.

413. Maximum cant deficiency permissible in BG is ----- mm .  
 (a) **100 mm** (b) 75 mm  
 (c) 65 mm (d) 165 mm.
414. Rate of change of cant permissible is -----.  
 (a) 100 mm/second (b) 80 mm/second  
 (c) 75 mm/second (d) **35 mm/second.**
415. Shape of transition curve in Indian Railway is -----.  
 (a) Circular (b) Rectangular  
 (c) **Cubic Parabolic** (d) Elliptical.
416. To ease out the summit or sag at the junction of two gradients ----- is provided.  
 (a) **Vertical curve** (b) Super elevation  
 (c) Cant excess (d) Cant efficiency.
417. Degree of curvature is equal to the versine measured on a chord of ----- meter.  
 (a) 20 m (b) 10 m  
 (c) **30.5m** (d) 1.5 m.
418. Gauge on curves upto 350 meter radius and more should be -----to -----mm.  
 (a) **-5 to +3 mm** (b) -3 to +10 mm  
 (c) -5 to +6 mm (d) -10 to +10 mm .
419. Gauge on curve of radius less than 350 meter should be upto ----- mm.  
 (a) +5 mm (b) **+10 mm**  
 (c) +15 mm (d) +3 mm
420. Super elevation is ----- when outer rail is raised above inner rail.  
 (a) **Positive** (b) Negative  
 (c) Assertive (d) Above all.
421. Gap of -----mm is provided between rails for mobile flash butt welding.  
 (a) 2 mm (b) **3 mm**  
 (c) 4 mm (d) 25 mm
422. Due to flashing and butting rails are shortened by -----mm after flash butt welding.  
 (a) 25 to 30 mm (b) **32 to 35 mm**  
 (c) 35 to 40 mm (d) None
423. During tamping gap between top edge of tamping blade and bottom edge of PRC sleeper should be -----mm.  
 (a) 8 mm (b) **10 to 12 mm**  
 (c) 15 mm (d) None

423. General lift of ----- mm is kept during tamping.
- (a) 10 mm (b) 20 mm  
(c) 25 mm (d) **30 mm**
424. In tamping double insertion is required when lift is more than ----- mm.
- (a) 10 mm (b) 20 mm  
(c) 25 mm (d) **30 mm**
425. Super elevation is -----when inner rail is raised above outer rail.
- (a) Positive (b) **Negative**  
(c) Assertive (d) Above all.
426. The speed at which centrifugal forces developed are exactly balanced by cant provided is -----.
- (a) **Equilibrium Speed** (b)Maximum permissible speed  
(c) Maximum sanctioned speed (d) Above all.
427. When the train moves at a higher speed than equilibrium speed ----- occurs.
- (a) Cant excess (b) **Cant deficiency**  
(c) Equilibrium cant (d) Above all.
428. When the train moves at a slower speed than equilibrium speed ----- occurs.
- (a) **Cant excess** (b) Cant deficiency  
(c) Equilibrium cant (d) Above all.
429. Cant gradient should not be steeper than ----- in -----.
- (a) **1 in 360** (b) 1 in 720  
(c) 1 in 1000 (d) Above all.
430. The main circular arc is moved in ward by an amount called -----.
- (a) Transition (b) **Shift**  
(c) Tangent (d) Above all.
431. The Shift is calculated from the formula  $S =$  -----.
- (a)  **$4.2 \times L^2/R$**  (b)  $L^2/R$   
(c)  $3.2 \times L^2/R$  (d) Above all.

432. A straight of ----- is kept between two transitions of reverse curve.
- (a) 20 m (b) 30 m  
(c) 40 m (d) **50 m.**
433. In Curve speed upto 110 kmph and above station to station variation of versine permissible is -.
- (a) 05 mm (b) **10 mm**  
(c) 15 mm (d) 20 mm.
434. From 50 kmph to 110 kmph variation in station to station versine should be -----.
- (a) 05 mm (b) 10 mm  
(c) 15 mm (d) **20 mm.**
435. For below 50 kmph speed variation in station to station versine should be -----.
- (a) 20 mm (b) 30 mm  
(c) **40 mm** (d) 50 mm.-
436. There should not be change in super elevation on curve -----meter ahead of ATS and behind back leg of crossing.
- (a) **20 m** (b) 30 m  
(c) 40 m (d) 50 m.
437. Speed restriction of -----kmph is provided if a diamond crossing is on curve.
- (a) 50 kmph (b) **65 kmph**  
(c) 75kmph (d) 90 kmph.
438. Minimum radius for vertical curve in 'A' route is ----- .
- (a) 1000 m (b) 2000 m  
(c) 3000 m (d) **4000 m.**
439. Minimum radius for vertical curve in 'B' route is ----- .
- (a) 1000 m (b) 2000 m  
(c) **3000 m** (d) 4000 m.
440. Minimum radius for vertical curve in 'C, D & E' route is ----- .
- (a) 1000 m (b) **2500 m**  
(c) 3000 m (d) 4000 m.
441. In points and crossing opening of switch should be -----.
- (a) 110 mm (b) **115 mm**  
(c) 95 mm (d) 120 mm.

442. Heel divergence in 1 in 8.5 switch is -----mm.
- (a) 110 mm (b) 175 mm  
(c) **183 mm** (d) 190 mm.
443. Heel divergence in 1 in 12 switch is -----mm.
- (a) 110 mm (b) **175 mm**  
(c) 183 mm (d) 190 mm.
444. The gap between bottom of stock rail and leading stretcher bar should be -----mm.
- (a) 5 to 7 mm (b) 7 to 10 mm  
(c) **1.5 to 3 mm** (d) None.
445. Gap at joints with CMS crossing or tongue rail should be ----mm.
- (a) 5 to 7 mm (b) 7 to 10 mm  
(c) **Gapless** (d) None.
446. Tongue rail is chipped if total cracks in 1000 mm from ATS is aggregating to ---- ----mm.
- (a) 100 mm (b) **200 mm**  
(c) 300 mm (d) 400 mm.
447. Tongue rail is declared knife edge if thickness of top edge becomes less than ---- ----mm.
- (a) .5 mm (b) 1 mm  
(c) **2 mm** (d) 3 mm.
448. Vertical wear permissible of 60 Kg tongue rail is ---- ----mm.
- (a) 6 mm (b) **8 mm**  
(c) 10 mm (d) 12 mm.
449. Vertical wear permissible of 52 Kg tongue rail is ---- ----mm.
- (a) **5 mm** (b) 8 mm  
(c) 10 mm (d) 12 mm.
450. Lateral wear permissible of 60 kg tongue rail is ---- ----mm.
- (a) 5 mm (b) **8 mm**  
(c) 10 mm (d) 12 mm.

451. Lateral wear permissible of 52 kg tongue rail is ---- ----mm.
- (a) **6 mm** (b) 8 mm  
(c) 10 mm (d) 12 mm.
452. Maximum vertical wear on wings rails of CMS crossing permissible is -----mm.
- (a) 6 mm (b) 8 mm  
(c) **10 mm** (d) 12 mm.
453. In lead rail in points & crossings stations are marked at ----- interval.
- (a) 2 meter (b) **3 meter**  
(c) 5 meter (d) 6 meter.
454. In lead rail in points & crossings versine is measured at ----- meter chord.
- (a) 2 meter (b) 3 meter  
(c) 5 meter (d) **6 meter.**
455. Variation in versine on two successive station in lead curve of points & crossings should not be more than .....mm .
- (a) 2 mm (b) 3 mm  
(c) **4 mm** (d) 6 mm.
456. In lead rail versine at each station should not be more than ----- mm than design value.
- (a)  $\pm 2$  mm (b)  **$\pm 3$  mm**  
(c) 4 mm (d) 6 mm.
457. Points and crossings are inspected by SSE/JE at every ----- months by rotation.
- (a) 2 months (b) **3 months**  
(b) (c) 4 months (d) 6 months
458. Points and crossings in yard lines are inspected by SSE/JE at every -----months by rotation.
- (a) 2 months (b) 3 months  
(c) 4 months (d) **6 months**
459. Gauge in points and crossings in straight route is ----- mm permissible.
- (a) -3 to +3 mm (b) **-6 to +6 mm**  
(c) -6 to +15 mm (d) none

460. Permissible gauge in turnout side upto 440 meter radius in points and crossings is ---- mm.
- (a) -3 to +3 mm (b) -6 to +6 mm  
**(c) -6 to +15 mm** (d) none
461. Permissible gauge in turnout side below 440 meter radius in points and crossings is--- mm.
- (a) -3 to +3 mm (b) -6 to +6 mm  
 (c) -6 to +15 mm **(d) upto 20 mm**
462. Gauge in crossing portion should be ----- mm.
- (a) 0 to 4 mm** (b) -6 to +6 mm  
 (c) -6 to +15 mm (d) upto 20 mm
461. In symmetrical split versine in points and crossing is taken in .....
- (a) Main line** (b) Branch line  
 (c) cord line (d) Any one
463. Wear of CMS crossing is measured -----mm from actual nose of crossing.
- (a) 75 mm **(b) 100 mm**  
 (c) 150 mm (d) Any one
464. Actual wear for 52 Kg CMS crossing is -----mm less than measured value.
- (a) 1 mm **(b) 2 mm**  
 (c) 2.5 mm (d) 3 mm
465. Actual wear for 60 Kg CMS crossing is -----mm less than measured value.
- (a) 1 mm (b) 2 mm  
**(c) 2.5 mm** (d) 3 mm
466. Gauge and cross level at crossing nose is measured at -----mm from ANC.
- (a) 100 mm **(b) 150 mm**
467. In points & crossings Check rail clearance should be between ----- to ----- mm.
- (a) 41 to 44 mm** (b) 44 to 47 mm  
 (c) 51 to 57 mm (d) 60 to 66 mm
468. Vertical wear is measured where width of tongue rail is-----mm.
- (a) 09 mm (b) 11 mm  
**(c) 13 mm** (d) 15 mm

469. Vertical wear is measured -----mm below top of stock rail .
- (a) 09 mm (b) 11 mm  
(c) 13 mm (d) **15 mm**
470. In 52 kg 6400 mm switch length, 13 meter head width is at -----mm from ATS .
- (a) 300 mm (b) 425 mm  
(c) **476.5 mm** (d) 1682 mm
471. In 52 kg 10125 mm switch length, 13 meter head width is at -----mm from ATS .
- (a) 300 mm (b) 425 mm  
(c) 476.5 mm (d) **1682 mm**
472. Track centre for BG for new line construction should be -----.
- (a) 5 meter (b) **5.3 meter**  
(c) 5.5 meter (d) 6 months
473. Sleeper density for BG group 'A' route is -----sleepers per km.
- (a) 1400 (b) 1540  
(c) **1660** (d) 1750
474. Tilting of rails is done at a slope of -----.
- (a) **1 in 20** (b) 1 in 10  
(c) 1 in 30 (d) none
475. The dia of fish bolt holes is -----.
- (a) 26 (b) 32  
(c) **27** (d) none
476. Free rails while stacking shall be supported at least at -----.
- (a) 2 points (b) 3 points  
(c) **4 points** (d) 5 points
477. In fan shaped lay out of PRC special types of sleeper for BG 1 in 8.5 turn out are -----.
- (a) 45 (b) 83  
(c) **54** (d) None
478. In fan shaped lay out of PRC special types of sleeper for BG 1 in 12 turn out are -----.
- (a) 45 (b) **83**  
(c) 54 (d) None



479. Spacing of concrete sleeper on BG track with 1660 sleeper per kilometer is -----.

- (a) 50  
(c) 54
- (b) **60**  
(d) None

480. Spacing of concrete sleeper on BG track with 1540 sleeper per kilometer is -----.

- (a) 50  
(c) **65**
- (b) 60  
(d) None

481. Sanction speed of Gr. 'A' route is -----kmph.

- (a) 100  
(c) 130
- (b) 120  
(d) **160**

482. Grade compensation on curves on BG is -----%.

- (a) .05  
(c) .03
- (b) **.04**  
(d) .02

483. In Turn in curve minimum sleeper density is -----.

- (a) M +2  
(c) **M+7**
- (b) M +4  
(d) M+6

484. 1540 sleepers per kilometer indicates the spacing of sleeper ....--cm.

- (a) 60  
(c) 70
- (b) **65**  
(d) None

485. 1660 sleepers per kilometer indicates the spacing of sleeper -----cm.

- (a) **60**  
(c) 70
- (b) 65  
(d) None

486. Fouling mark should be placed where track centre is-----mm.

- (a) **4265**  
(c) 5300
- (b) 4725  
(d) None

487. Maximum gradient in station yard for new lines is -----.

- (a) **1 in 1200**  
(c) 1 in 600
- (b) 1 in 1000  
(d) None

488. In 'A' route distance of platform from centre line of track is ----- mm.

- (a) **1670 to1680**  
(c) 1680 o 1900
- (b) 1675 to 1695  
(d) None

489. In 'B' route distance of platform from centre line of track is----- mm.
- (a) 1670 to 1680 (b) 1675 to 1695  
(c) 1680 o 1900 (d) **1675 to 1905**
490. In Goods siding height of platform is -----mm.
- (a) 760 to 840 (b) 455  
(c) **1065** (d) None
491. Clear spacing of bridge sleepers is -----mm.
- (a) 400 (b) **450**  
(c) 510 (d) None
492. In bridges clearance of Guard Rail is -----mm.
- (a) **250 ± 50** (b) 300 ± 50  
(c) 300 (d) None
493. Difference in height of running rail and guard rail should not exceed -----mm.
- (a) 15 (b) 20  
(c) **25** (d) None
494. 1 in 12 turn out over all length is ----- meter.
- (a) **39.975** (b) 29.975  
(c) 17.874 (d) 18
495. In 1 in 12 turn out length of check rail is ----- meter.
- (a) 5.234 (b) 4.456  
(c) **4.331** (d) 4.335
496. 1 in 12 CMS crossing is ----- meter long.
- (a) 5.234 (b) **4.350**  
(c) 4.331 (d) 4.335
497. In 1 in 12 crossing, crossing angle is -----.
- (a) **4° 45' 49"** (b) 4° 42' 49"  
(c) 4° 40' 49" (d) None
498. In 1 in 12 Fan Shape Sleepers one to ----- sleepers are perpendicular on main line.
- (a) 10 (b) **20**  
(c) 30 (d) 40

499. In 1 in 12 Fan Shape Sleepers no-----to ---are perpendicular on bisector of crossing angle.
- (a) 70 to 80 (b) **65 to 83**  
(c) 70 to 83 (d) None
500. In Sand hump -----meter is kept in level from fouling mark.
- (a) 20 (b) 25  
(c) **30** (d) None
501. In Sand hump after 30 meters gradient of ----- in ---- is made.
- (a) **1 in 50** (b) 1 in 30  
(c) 1 in 40 (d) None
502. Toe load on PRC is measured after ----- years or 200 GMT whichever is earlier.
- (a) 2 (b) 3  
(c) **4** (d) 5
503. TFR is to be proposed if 20 % or more sample size records less than ----- of toe load.
- (a) 200 kg (b) 300 kg  
(c) **400 kg** (d) 500 k
504. During packing ..... rail shall be treated as base rail on curves.
- (a) **Inner** (b) Outer  
(c) None of these (d) Any of them
505. On curves ..... rail shall be taken as sighting rail
- (a) Inner (b) **Outer**  
(b) (c) None of these (d) Any of them
506. The work of deep screening shall be done at the speed restriction of minimum ..... Kmph.
- (a) 45 (b) 30  
(c) **20** (d) 15
507. Lifting of track by gang should not exceed ..... mm at a time
- (a) 100 mm (b) **75 mm**  
(c) 50 mm (d) 15
508. Lubrication of fish plate joints shall be done preferably in the month of .
- (a) **Oct & Nov** (b) Dec to Jan  
(c) April & May (d) Aug & Sep

509. Which of the following will reduce creeping of rails.
- (a) **Anchors** (b) Spikes  
(c) Chairs (d) Bearing plates
510. Usually adjustment of rail is needed whenever creep exceeds.
- (a) 1 mm (b) 10 mm  
(b) (c) 50 mm (d) **150 mm**
511. The bending of rails is done by.
- (a) **Jim crow** (b) Beater  
(c) Pickaxe (d) Sledge hammer
512. On B.G track, shallow screening should be done for LWR/CWR when Rail/temperature is below.
- (a)  $td + 5^{\circ}C$  (b)  **$td + 10^{\circ}C$**   
(c)  $td + 15^{\circ}C$  (d)  $td + 15^{\circ}C$
513. In annual programme of regular track maintenance past monsoon attention is for a period of about ..... months after the end of monsoon.
- (a) 2 months (b) 3 months  
(b) (c) 4 months (d) **6 months**
514. Oiling and greasing of fish plate is done once in ..... months every year.
- (a) 3 months (b) 6 months  
(c) 9 months (d) **12 months**
515. Glued insulated joint of G3 (L) type is ..... Long fish plate
- (a) 0.5 m (b) 0.75 m  
(c) **1.0 m** (d) 1.25 m
516. Size of fouling mark shall be .....
- (a) 1200x200x100 mm (b) **1500x250x125 mm**  
(c) 1200x250x125 mm (d) 1200x200x150 mm
517. Works which are completed by sunset of the day of commencement are called the work of ..... duration.
- (a) **Short** (b) Long  
(c) Immediate (d) None of these
518. In case of stop dead restriction caution indicator shall be provided at .....
- (a) 800 m (b) 1000 m  
(c) **1200 m** (d) 900 m

519. Lowering of track by gang should be restricted to a maximum of
- (a) 50 mm (b) **75 mm**  
(c) 100 mm (d) 200 mm
520. The phenomenon of misalignment of rails due to temperature changes is known as
- (a) Hogging (b) Creeping  
(c) Bulging (d) **Buckling**
521. Creep is the
- (a) **Longitudinal movement of rail** (b) Lateral movement of rail  
(c) Vertical movement of rail (d) Difference in level of two rails.
522. Lowering of track is done in
- (a) **Direction of falling grad** (b) Opposite to direction of falling grade  
(c) Direction of rising grade (d) None of these
523. Scabbing of rail is due to
- (a) **Falling off of patches or chunks of metal from the rail table**  
(b) Slipping of the drilling wheel of locomotives on the rail surface  
(c) Poor maintenance of rail joints  
(d) Heavy bearing pressure on a small area of contact providing heavy internal shear stress.
524. Maximum distance covered in a day by a patrolmen should not normally exceed.
- (a) 2 km (b) 5 Km  
(c) 10 Km (d) **20 Km**
525. Caution indicator should be placed at least at a distance of far BG track from work spot.
- (a) **800 m** (b) 1000 m  
(c) 1200 m (d) 1500 m
526. SWR is
- (a) Short welded rail (b) **Small welded rail**  
(c) Small weld railing (d) None of these
527. From work spot, banner flag should be placed on B.G track at
- (a) 100 m (b) 500 m  
(c) **600 m** (d) 400 m

528. Long welded rails 'LWR' have welded length greater than .....on BG
- (a) 125 m (b) 200 m  
(c) **250 m** (d) 500 m
529. During repair of buckled track minimum length of closure required is .....
- (a) 4 m (b) 5 m  
(c) 5.5 m (d) **6.5 m**
530. Point & Crossing shall be isolated from LWR by providing ..... normal rail lengths duly anchored.
- (a) 2 Rails (b) **3 Rails**  
(c) 4 Rails (d) 6 Rails
531. Cold weather patrol will be introduced when rail temperature falls below.
- (a) td -10°C (b) td -15°C  
(c) td -25°C (d) **td -30°C**
532. During hot weather patrol, Patrolmen will carry.
- (a) One green and two red H.S Flags  
(b) Two B/F and one green H.S Flag  
(c) **Two red H.S Flags**  
(d) Two H.S tricolor lamps
533. How many rounds of machine packing with DTS are required after deep screening in LWR/CWR
- (a) 1m (b) 2  
(c) **3** (d) 4
534. LWR/CWR can not be laid on curves having radius sharper than.
- (a) 200 m (b) 340 m  
(c) **440 m** (d) 500 m
535. Oiling in SEJ is must once.
- (a) Daily (b) Weekly  
(c) **Fortnightly** (d) Monthly
536. Minimum clean ballast cushion in LWR is
- (a) 150 mm (b) 200 mm  
(c) **250 mm** (d) 300 mm

537. Minimum shoulder ballast in inside track of LWR.
- (a) 300 mm (b) **350 mm**  
(c) 500 mm (d) 600 mm
538. Minimum shoulder ballast on outside of curve in LWR track
- (a) 300 mm (b) 350 mm  
(c) **500 mm** (d) 600 mm
539. Breathing length must not fall on.
- (a) **Level crossing** (b) Straight track  
(c) Curve 3500m Rad (d) All above
540. Hot weather Patrolmen has a beat of.
- (a) **2Km. on single line track** (b) 1 Km.on single line track  
(c) 2Km. on a double line track (d) 1Km. on double line track
541. The length at each end of long welded Rail which is subjected to extension or contraction on account of temperature variation is called as
- (a) Anchor length (b) Switch length  
(c) Buffer length (d) **Breathing length**
542. The welded rail passes through yards including points & crossing is known as.
- (a)SWR (b) LWR  
(c) **CWR** (d) None of above
543. The length of LWR/CWR (BG) that expand and contract on either ends by variation in temperature is about.
- (a)50 m (b) 75 m  
(c) **125 m** (d)2 50 m
544. During hot weather patrol, Patrolman will watch for
- (a) **Sun Kinks** (b) Gauge  
(c) Ceneveness (d) None of above
545. Destressing in LWR/CWR is required to avoid.
- (a) Buckling (b) Fracture  
(c) **Buckling & Fracture both** (d) None of above

546. Red zone in rail thermometer indicates.
- (a) Work can be done  
**(c) Introduce hot weather patrolling**
- (b) Work can not be done  
 (d) All above
547. Temperature below green zone indicates.
- (a) **Cold weather patrolling**  
 (b) Hot weather patrolling
- (b) Allow work  
 (d) No work permitted
548. Mate can replace one sleeper out of
- (a) 10  
**(c) 30**
- (b) 20  
 (d) 50
549. Destressing temp. td for 52 Kg rails in Zone 3 will be within temperature range.
- (a) **T<sub>m</sub> to T<sub>m</sub>+5°C**  
 (c) T<sub>m</sub>+5°C to T<sub>m</sub> +20°C
- (b) T<sub>m</sub>+5°C to T<sub>m</sub> +10°C  
 (d) None of them
550. The sleeper density for LWR track with PRC sleeper for zone III & IV is
- (a) 1310  
 (c) 1660
- (b) 1540**  
 (d) None of them
551. The sleeper density for LWR track with PRC sleeper for zone I & II is
- (a) **1310**  
 (c) 1660
- (b) 1540  
 (d) None of them
552. CWR is
- (a) Complete weld rail  
 (c) Current welded rail
- (b) Continuous welded rail**  
 (d) None of these
553. How many number of buffer rails with 4 fish plated joints to be used between the end of two LWRs.
- (a) 2  
 (c) 4
- (b) 3**  
 (d) 5
554. Gradient on which LWR can be laid should not be sleeper than
- (a) 1 in 250  
 (c) 1 in 150
- (b) 1 in 200  
**(d) 1 in 100**



555. Cold weather patrolling will be introduced when rail temp. is less than ...
- (a) Td-10°C (b) Td-20°C  
(c) **Td-30°C** (d) Td-40°C
556. The minimum depth of ballast cushion for SWR track is
- (a) 100 mm (b) 150 mm  
(c) **200 mm** (d) 300 mm
557. The gap survey is conducted once in .....
- (a) 03 months (b) 06 months  
(c) **12 months** (d) 09 months
558. Competency certificate for LWR maintenance is issued by
- (a) AEN (b) **DEN**  
(c) PWI (d) CTE
559. The normal length of SWR in B.G is
- (a) 2x13 m (b) **3x13 m**  
(c) 5x12 m (d) 5x13 m
560. A fish plated joint shall be avoided on the level crossing and .... M from end of level crossing in SWR track.
- (a) 5 (b) **6**  
(c) 4 (d) 3
561. Maximum distance between trolley refuges on bridges with main spans less than .....
- (a) **100 m** (b) 150 m  
(c) 250 m (d) 200 m
562. LWR/CWR can not be laid on reverse curve having radius sharper than
- (a) 500 m (b) 600 m  
(c) 750 m (d) **875 m**
563. Gap survey of SWR is carried out at the end of
- (a) January (b) **February**  
(c) April (d) June

564. SR of ----- kmph can be allowed after BCM working if DTS has been used behind tamping machine.
- (a) 20 kmph (b) 30 kmph  
(c) **40 kmph** (d) 60 kmph
565. Patrolman will fix 03 detonators at----- m from danger. .
- (a) 400 m (b) 900 m  
(c) **1200m** (d) 600 m
566. Axle load of front axle of DTS is ----- .
- (a) 14 tonne (b) **14.5 tonne**  
(c) 15 tonne (d) 16 tonne
567. Axle load of rear axle of DTS is ----- .
- (a) **14 tonne** (b) 14.5 tonne  
(c) 15 tonne (d) 16 tonne
568. Maximum speed of DTS when self propelled is ----- .
- (a) 40 kmph (b) 50 kmph  
(c) **60 kmph** (d) 80 kmph
569. Maximum speed of DTS when in train formation is -----kmph .
- (a) 40 kmph (b) **50 kmph**  
(c) 60 kmph (d) 80 kmph
570. Length of BCM from buffer to buffer is -----meter .
- (a) 25 meter (b) 30 meter
571. Speed of BCM when self propelled is -----kmph .
- (a) 25 kmph (b) 30 kmph  
(c) **40 kmph** (d) 50 kmph
572. The upper screen of BCM is of ----- mm size .
- (a) 36 mm (b) 50 mm  
(c) **80 mm** (d) None
573. The middle screen of BCM is of ----- mm size .
- (a) 36 mm (b) **50 mm**  
(c) 80 mm (d) None

574. The lower screen of BCM is of ----- mm size .
- (a) **36 mm** (b) 50 mm  
(c) 80 mm (d) None
575. Cutter bar can be extended by ----- mm at a time in RM – 76.
- (a) 200 mm (b) 300 mm  
(c) 400 mm (d) **500mm**
576. Total excavation width in RM – 76 BCM is -----meter.
- (a) 4 meter (b) 5 meter  
(c) 6 meter (d) **7.72meter**
577. RM – 76 BCM takes ----- minutes to deep screen one 1 x12 turn out.
- (a) 60 minute (b) 70 minute  
(c) 80 minute (d) **90 minute**
578. Capacity of lifting of one PQRS portal crane is -----tonne.
- (a) 5 tonne (b) 7 tonne  
(c) **9 tonne** (d) 11 tonne
579. Portal cranes are loaded/unloaded from BFR by -----.
- (a) Hydra (b) **Turn table**  
(c) Portal Crane (d) None
580. Length of beam car of TRT is ----- meter.
- (a) 12 meter (b) 20 meter  
(c) **22.34 meter** (d) None
581. Just after relaying by TRT , train can pass at -----kmph.
- (a) 10 kmph (b) 20 kmph  
(c) **40 kmph** (d) None
582. Sanction speed of Gr. 'A' route is -----kmph.
- (a) 100 (b) 120  
(c) 130 (d) **160**
583. Grade compensation on curves on BG is -----%.
- (a) .05 (b) **.04**  
(c) .03 (d) .02

584. Turn in curve minimum sleeper density is -----.  
 (a) M +2 (b) M +4 (c) **M+7** (d) M+6
585. 1540 sleepers per kilometer indicates the spacing of sleeper -----cm.  
 (a) 60 (b) **65** (c) 70 (d) None
586. 1660 sleepers per kilometer indicates the spacing of sleeper -----cm.  
 (a) **60** (b) 65 (c) 70 (d) None
587. Fouling mark should be placed where track centre is-----mm.  
 (a) **4265** (b) 4725 (c) 5300 (d) None
588. Maximum gradient in station yard for new lines is -----.  
 (a) **1 in 1200** (b) 1 in 1000 (c) 1 in 600 (d) None
589. Width of formation for single line in construction of new line is -----meter.  
 (a) 6.25 (b) **6.85** (c) 6.95 (d) None
590. Width of formation for single line in cutting is -----meter.  
 (a) **6.25** (b) 6.85 (c) 6.95 (d) None
591. Width of formation for double line is -----meter.  
 (a) 6.25 (b) 6.85 (c) **12.15** (d) None
592. Width of formation for double line in cutting is -----meter.  
 (a) **11.55** (b) 6.85 (c) 12.15 (d) None
593. In 'A' route distance of platform from centre line of track is ----- mm.  
 (a) **1670 to1680** (b) 1675 to 1695 (c) 1680 o 1900 (d) None
594. In 'B' route distance of platform from centre line of track is ----- mm.  
 (a) 1670 to1680 (b) 1675 to 1695 (c) 1680 o 1900 (d) **1675 to 1905**
595. Height of Platform from rail level for high level platform is----- mm.  
 (a) **760 to 840** (b) 455 (c) 1065 (d) None
596. In medium level Platform height of platform is -----mm  
 (a) 760 to 840 (b) **455** (c) 1065 (d) None

597. In Goods siding height of platform is -----mm.  
 (a) 760 to 840 (b) 455 (c) **1065** (d) None
598. Clear spacing of bridge sleepers is -----mm.  
 (a) 400 (b) **450** (c) 510 (d) None
599. Clearance of Guard Rail is -----mm.  
 (a) **250 ± 50** (b) 300 ± 50 (c) 300 (d) None
600. Difference in height of running rail and guard rail should not exceed -----mm.  
 (a) 15 (b) 20 (c) **25** (d) None
601. On LC gates width of speed breaker is -----meter.  
 (a) 1 (b) **2** (c) 3 (d) None
602. On Level Crossing speed breaker is -----mm high at centre.  
 (a) **125mm** (b) 100 mm (c) 150 mm (d) None
603. On Level Crossing shape of speed breaker is -----.  
 (a) **Circular** (b) Angular (c) Rectangular (d) None
604. To paint the speed breakers shape of ----- cm x ----- cm is made.  
 (a) 50 x 50 (b) **50 x 30** (c) 50 x 60 (d) None
605. ROB is recommended when TVU of LC gate is more than -----.  
 (a) 50,000 (b) 75,000 (c) **1,00,000** (d) None
606. Permitted locations for LWR -----.  
 (a) Stable formation (b) Rail Section 52 kg/60 kg.  
 (c) Sleeper density 1540 per KM (d) **All the above**
607. SEJ cannot be provided at -----.  
 (a) Circular curve (b) **Transition curve**  
 (c) Reverse curve (d) All the above
608. Land boundary post should be erected at ----- meter.  
 (a) 20 (b) **50** (c) 70 (d) None

609. Name of railway is written in ----- side on land boundary post.  
 (a) Railway side      **(b) Non Railway Side**      (c) Anywhere      (d) None
610. Number of pillars at land boundary post is written from ----- side  
 (a) **Railway side**      (b) Non Railway Side      (c) Anywhere      (d) None
611. Number of pillars at land boundary post is written in----- In UP side.  
 (a) **Odd number**      (b) even number      (c) both      (d) None
612. Number of pillars at land boundary post is written in----- In DN side.  
 (a) Odd number      **(b) even number**      (c) both      (d) None
613. Land boundary pillars are painted -----mm red from top.  
 (a) 200      (b) 300      **(c) 600**      (d) None
614. Land boundary pillars are painted in -----colour from bottom.  
 (a) Red      **(b) White**      (c) Black      (d) None
615. ----- is not a hard encroachment if prepared within Railway boundary.  
 (a) Concrete houses      **(b) Hutments**  
 (c) Any construction of concrete      (d) None
616. SEJ should be provided at -----meter from bridge abutment.  
 (a) 25 meter      **(b) 36 meter**      (c) 40 meter      (d) None
617. On 60 kg LWR with 1540 PRC sleepers per kilometers breathing length is ....meter  
 (a) 60      (b) 64      **(c) 77**      (d) 74
618. On 60 kg LWR with 1660 PRC sleepers per kilometers breathing length is --m  
 (a) 60      (b) 64      (c) 77      **(d) 74**
619. On 52 kg LWR with 1660 PRC sleepers per kilometers breathing length is --- meter  
 (a) 60      **(b) 64**      (c) 77      (d) 74
620. On 52 kg LWR with 1540 PRC sleepers per kilometers breathing length is -meter.  
**(a) 66**      (b) 64      (c) 77      (d) 74
621. PCS 14 (ordinary PRC 60 Kg.) sleepers are -----mm long.  
 (a) 2400      (b) 2700      **(c) 2750**      (d) 2800

622. Bottom width of PCS 14 (ordinary PRC 60 Kg.) sleeper is -----mm.  
 (a) 240 (b) **270** (c) 275 (d) 280
623. Top width of PCS 14 (ordinary PRC 60 Kg.) sleeper is -----mm.  
 (a) **130** (b) 170 (c) 175 (d) 180
624. 1 in 12 turn out over all length is ----- meter.  
 (a) **39.975** (b) 29.975 (c) 17.874 (d) 18
625. Heavy slewing or lifting by machine should be done in steps of not more than ----- mm .  
 (a) **50 mm** (b) 60 mm  
 (c) 70 mm (d) None
627. Squeezing pressure for PRC sleeper is -----kg per cm<sup>2</sup>.  
 (a) **135 to 140** (b) 125 to 130  
 (c) 145 to 150 (d) None
628. A trench of ----- cm depth from bottom of sleeper is cut for lowering cutter bar of BCM.  
 (a) 10 cm (b) 20 cm  
 (c) **30 cm** (d) 40 cm
629. Only one machine is allowed to run in block section if gradient is steeper than -----.  
 (a) **1 in 100** (b) 1 in 200  
 (c) 1 in 150 (d) None
630. Competency certificate of machine operators are valid for ----- years.  
 (a) 1 year (b) 2 year  
 (c) **3 year** (d) None
631. On PRC sleepers tamping will be done in ----- years or passage of ----- GMT whichever is earlier.  
 (a) 1 year and 50 GMT (b) **2 year and 100 GMT**  
 (c) 3 year and 100 GMT (d) None
632. Full form of CSM is ----- .  
 (a) **Continuous Squeezing Machine .** (b) Continuous Sharing Machine.  
 (c) Children Sharing Market. (d) None.

633. Full form of PRC is ----- .
- (a) Point Rail Concrete . (b) Preventive Route Concrete.  
**(c) Pre-stressed Reinforced Concrete.** (d) None.
634. Relation between degree of curvature and radius of curve is ---.
- (a)  $1000/R$  (b)  $1750 \times R$   
**(c)  $1750/R$**  (d) None
635. Minimum cushion for working of track tamper is -----.
- (a) 100 mm **(b) 150 mm**  
(c) 200 mm (d) 250 mm
636. Ramp after completion of work is -----.
- (a) 1 in 1000** (b) 1 in 200  
(c) 1 in 400 (d) None
637. Tamping tool should be changed if wear on tool blade is more than ----- %.
- (a) 10 **(b) 20**  
(c) 25 (d) 30
638. Tamping tools are required to be inserted ----- if lift is more than 30 mm.
- (a) once **(b) twice**  
(c) Thrice (d) None
639. For renewal of points & crossing ----- machine is utilized.
- (a) TRT **(b) T/ 28**  
(c) T/38 (d) None
640. Gauge of auxilliary track is ----- meter.
- (a) 3 meter (b) 3.2 meter  
**(c) 3.4 meter** (d) None
641. Full form of SQRS is -----.
- (a) Straight Quarry relaying System **(b) Simplex quick relaying system**  
(c) Signal quick relaying system (d) None
642. Running rail are cut at ----- meter interval for PQRS.
- (a) 12 meter (b) 12.5 meter  
**(c) 13 meter** (d) None
643. Ballast cleaning machine for plain track is -----.
- (a) NR 80 **(b) RM 80**  
(c) MR 80 (d) None
644. Ballast cleaning machine for points & Crossing is -----.
- (a) RM 76** (b) RM 80  
(c) MR 80 (d) None



645. Ballast cleaning machine for shoulder ballast cleaning is -----.
- (a) **FRM 80** (b) RM 80  
(c) MR 80 (d) None
646. The amount of lift which is given to track while tamping to cover all undulation is called -----.
- (a) common lift (b) excess lift  
(c) **General lift** (d) None
647. The General lift should be ----- than largest dips.
- (a) **More** (b) less  
(c) equal (d) None
648. The range of keeping optical instrument for design mode working is -----.
- (a) 50 to 75 meter (b) 100 to 150 meter  
(c) **200 to 250 meter** (d) None
649. Vibration frequency of tamping tool is -----Hz .
- (a) 20 Hz (b) 25 Hz  
(c) **35 Hz** (d) None
650. Amplitude of oscillation of tamping tool is ----- mm.
- (a) 5 (b) **10**  
(c) 15 (d) None
651. Main work of tamping machine is to improve -----.
- (a) Alignment (b) Longitudinal level  
(c) Packing of sleepers (d) **Above all**
652. Main benefits of DTS Machine is -----.
- (a) compaction (b) create resistance to lateral movement  
(c) Relax speed quickly (d) **Above all**
653. For Special class gates, TVU is more than -----.
- (a) 20,000 (b) 30,000  
(c) **50,000** (d) 1,00,000
654. For 'A' class gates, TVU is more than -----.
- (a) 20,000 (b) **30,000**  
(c) 50,000 (d) 1,00,000
655. For 'B' class gates, TVU should be between -----.
- (a) **20,000 to 30,000** (b) more than 30,000  
(c) more than 50,000 (d) above 1,00,000
656. Angle of skew level crossing should not be less than -----.
- (a) **45 degree** (b) 60 degree  
(c) 70 degree (d) 80 degree

657. Height gauge should be ----- meter away from gate post.
- (a) 3 meter (b) 5 meter  
(c) **8 meter** (d) 12 meter
658. Gateman must be fit in class -----by medical department.
- (a) A (b) A2  
(c) **A3** (d) B2
659. Upto the age of 45 years Gateman's medical test is done after -----years.
- (a) 1 year (b) 2 year  
(c) **4 year** (d) None
660. From 45 years to 55 years age gateman are medically tested after -----years.
- (a) 1 year (b) **2 year**  
(c) 3 year (d) None
661. After 55 years of age gateman are medically tested after -----years.
- (a) **1 year** (b) 2 year  
(c) 3 year (d) None
662. W/L Board is fixed at----- meter from gate.
- (a) **600** (b) 900  
(c) 1200 (d) None
663. Size of W/L Board is -----.
- (a) **600 x 600 mm** (b) 800 x 800 mm  
(c) 400 x 400 mm (d) 1 x 1 meter
664. Speed restriction of -----kmph is imposed if check rail is to be removed from gate.
- (a) 15 kmph (b) **30 kmph**  
(c) 45 kmph (d) 60 kmph
665. Height of W/L board from rail level is -----meter.
- (a) 1 meter (b) **2.1 meter**  
(c) 2 meter (d) None
666. The post for W/L board is painted in black and white of each ----- mm band.
- (a) 200 mm (b) 250 mm  
(c) **300 mm** (d) 500 mm
667. Speed breaker is provided at ----- mm from gate post.
- (a) 08 meter (b) 10 meter  
(c) 15 meter (d) **20 meter**
668. Census for TVU is taken after ----- years.
- (a) **3 years** (b) 4 years  
(c) 5 years (d) 6 Years

669. Minimum distance of gate post from centre line of track should be ----- .  
(a) **3 meter** (b) 4 meter  
(c) 5 meter (d) 6 meter
670. Minimum distance of gate lodge from centre of nearest track is ----- meter.  
(a) 3 meter (b) 4 meter  
(c) 5 meter (d) **6 meter**
671. Minimum distance of gate lodge from edge of road metal should be ----- meter.  
(a) 3 meter (b) 4 meter  
(c) 5 meter (d) **6 meter**
672. Minimum number of gateman is to be provided on special class gate is -----.  
(a) 2 (b) **3**  
(c) 4 (d) Nil
673. Minimum number of gateman is to be provided on "A" class gate is -----.  
(a) **2** (b) 3  
(c) 4 (d) Nil
674. Fencing upto ----- meter is provided on both sides of gate parallel to track.  
(a) 8 meter (b) **15 meter**  
(c) 20 meter (d) 30 meter
675. For special class gate road should be leveled upto ----- meter after gate.  
(a) 8 meter (b) **15 meter**  
(c) 20 meter (d) 30 meter
676. For 'A' class gate road should be leveled upto ----- meter after gate.  
(a) **8 meter** (b) 15 meter  
(c) 20 meter (d) 30 meter
677. Minimum length of straight road outside gate is ----- meter for special class gate.  
(a) 8 meter (b) **15 meter**  
(c) 20 meter (d) 30 meter
678. Minimum length of straight road outside gate is ----- meter for 'A' class gate.  
(a) **9 meter** (b) 15 meter  
(c) 20 meter (d) 30 meter
679. Minimum length of straight road outside gate is ----- meter for 'B' class gate.  
(a) **4.5 meter** (b) 15 meter  
(c) 20 meter (d) 30 meter
680. Frequency of overhauling at level crossing gate with PRC sleepers is -----.  
(a) 1 year (b) **2 year**  
(c) 3 year (d) 4 year

681. ----- is not a member of inspecting team for TVU census.  
 (a) SSE/P.Way (b) **SSE/C&W**  
 (c) SSE/S&T (d) TI.
682. Ballast is opened upto ----- mm from rail seat in inside/outside while through packing.  
 (a) 250 mm (b) 350 mm  
 (c) **450 mm** (d) 500mm.
683. While through packing ballast is opened ----- mm below bottom of sleeper .  
 (a) 25 mm (b) **50 mm**  
 (c) 75 mm (d) 100mm.
684. Speed restriction of -----kmph is imposed if manual deep screening is done.  
 (a) **20 kmph** (b) 30 kmph  
 (c) 10 kmph (d) 40 kmph
685. Speed restriction of -----kmph is imposed if deep screening is done by BCM without DTS.  
 (a) 20 kmph (b) **30 kmph**  
 (c) 10 kmph (d) 40 kmph
686. Speed restriction of -----kmph is imposed if deep deep screening is done by BCM with DTS.  
 (a) 20 kmph (b) 30 kmph  
 (c) 10 kmph (d) **40 kmph**
687. In primary renewal rails and sleepers are changed by -----.  
 (a) Old P.way materials (b) Second hand P.way materials  
 (c) **New P.way materials** (d) None
688. In secondary renewal rails and sleepers are changed by -----.  
 (a) Old P.way materials (b) **Second hand P.way materials**  
 (c) New P.way materials (d) None
689. TVU is abbreviated for :-  
 (a) Track vulnerable unit (b) **Train vehicle Unit**  
 (c) Total vehicle unit (d) None to them.
690. Indication post for detonators should be provided at a distance of .....m and .....m for B.G. level crossing.  
 (a) 400m to 800m (b) 50m to 1200m  
 (c) **600m to 1200m** (d) 600m to 1000m .
691. Indication post for detonators should be provided at a distance of .....m and .....m for M.G. level crossing.  
 (a) **400m to 800m** (b) 50m to 1200m  
 (c) 600m to 1200m (d) 600m to 1000m
692. At all manned level crossing, where visibly is poor, about 15 to 20 rumble strips should be provided at 15 to 20mm height and .....mm width  
 (a) 100mm to 200mm (b) **200m to 300m**  
 (c) 250mm to 350mm (d) 300mm to 400mm

693. Periodical census of traffic for un manned level crossing should be done :  
 (a) Once in six years (b) Once in One year  
 (c) Once in five years (d) **One in 3 years.**
694. Level crossing beyond the outer most stop signals is called ....gate :  
 (a) **Engineering Gate** (b) Operating Gate  
 (c) Both A & B (d) None of these..
695. In an Un-manned level crossing, stop board should be provided at a distance of ..... m from the centre of the nearest Track :-  
 (a) **5 m** (b) 7.5m  
 (c) 20m (d) 10m.
696. Speed breaker has to be provided on the road approaches of level crossing at the maximum feasible distance within Rly Boundary but not exceeding :  
 (a) 10m (b) 15m  
 (c) **20m** (d) 25m.
697. The quality of welding by flash butt welding technique can be checked by  
 (a) Proper pre-straighting of rails (b) Controlling the butting time  
 (c) **Welding recorder** (d) None of them
698. Replacement of swing gates by lifting barrier at existing manned level crossings shall be carried out where TVU is more than :  
 (a) 30000 (b) 40000  
 (c) **50000** (d) 60000
699. The AEN should inspect the equipment at every manned level crossing on the Sub-division once in :  
 (a) **6 months** (b) 3 months  
 (c) One month (d) One year.
700. Banner Flag at level crossing shall be provided at .....distance from the ends of Check rail :  
 (a) 73m (b) 6m  
 (c) **5m** (d) 3m.
701. Fish Plate Joint shall be avoided in check rail and on the running rails within ..... From the end of level crossing :  
 (a) 12m (b) 9m  
 (c) 6m (d) **3m.**
702. Minimum length of Check rail for square level crossing shall be .....M more than the width of gate :  
 (a) 1m (b) **2m**  
 (c) 3m (d) 5m.

703. The Minimum and maximum clearance of Check Rails at level crossing shall be ..... And .....mm  
 (a) 44, 48 (b) **51, 57**  
 (c) 51, 55 (d) None of these.
704. There should not be any combination joint on a level crossing proper and its approaches up to ..... metres. :  
 (a) 15m (b)30m  
 (c) 40m (d) **50m.**
705. The height gauges for a level crossing should be located at least ..... Metres from the gate post  
 (a) 4m (b) 6m  
 (c) **8m** (d) 10m.
706. The level crossings having sleepers other than concrete sleepers must be overhauled at lease :  
 (a)6 months (b) **Once a year**  
 (c) Once in 3 years (d) Once in 5 years.
707. No. of detonators provided at level crossing :  
 (a)**10** (b) 12  
 (c) 15 (d) 20.
708. In 1 in 12 turn out, length of check rail is ----- meter.  
 (a) 5.234 (b) 4.456 (c) **4.331** (d) 4.335
709. 1 in 12 CMS crossing is ----- meter long.  
 (a) 5.234 (b) **4.350** (c) 4.331 (d) 4.335
710. In 1 in 12 crossing, crossing angle is -----.  
 (a) **4° 45' 49"** (b) 4° 42' 49" (c) 4° 40' 49" (d) None
711. In 1 in 12 Fan Shape Sleepers one to ----- sleepers are perpendicular on main line.  
 (a) 10 (b) **20** (c) 30 (d) 40
712. In 1 in 12 Fan Shape Sleepers no----- to ----- are perpendicular on bisector of crossing angle.  
 (a) 70 to 80 (b) **65 to 83** (c) 70 to 83 (d) None
713. In Sand hump -----meter is kept in level from fouling mark.  
 (a) 20 (b) 25 (c) **30** (d) None

714. In Sand hump after 30 meters gradient of ----- in ---- is made.
- (a) **1 in 50**                      (b) 1 in 30                      (c) 1 in 40                      (d) None
715. Toe load on PRC is measured after ----- years or 200 GMT whichever is earlier.
- (a) 2                      (b) 3                      (c) **4**                      (d) 5
716. TFR is to be proposed if 20 % or more sample size records less than ----- of toe load.
- (a) 200 kg                      (b) 300 kg                      (c) **400 kg**                      (d) 500 k
717. During monsoon Patrolling, ADEN should inspect the work of patrolman at night once in a .
- (a)**1 month**                      (b) Fortnight                      (c) 2 month                      (d) Week
717. During monsoon Patrolling, ADEN should inspect the work of patrolman at night once in a .
- (a)**1 month**                      (b) Fortnight                      (c) 2 month                      (d) Week
718. When check rails of level crossing cannot be refined and train have to be passed speed restriction should be imposed ?
- (a)15 Kmph                      (b) **30 Kmph**                      (c) 45 Kmph                      (d) 60 Kmph
719. In open line organization, ADEN is responsible for ..... ballast.
- (a) **100% check on quality and quantity**  
 (b) 50% check on quality and quantity  
 (c) 75% check on quality and quantity  
 (d) 20% check on quality and quantity
720. Banner flag at level crossing shall be provided at ..... distance from the ends of check rail.
- (a) 7 m                      (b) 6 m                      (c) **5 m**                      (d) 3 m
721. Stop boards on either side of road approaches of all unmanned level crossing shall be provided at ..... from centre line of nearest track.
- (a) 4 m                      (b) **5 m**                      (c) 6 m                      (d) 10 m
722. Hot weather patrolling is introduced when temperature exceeds.
- (a) td+25°C                      (b) **td+15°C**                      (c) td+20°C                      (d) td+30°C
723. Which of the following are tamping machines ?
- (a) Unomatic                      (b) Tamping Express  
 (c) CSM                      (d) **All the above**
724. Which of the following is a shoulder ballast cleaning machine ?
- (a) RM - 76                      (b) RM-80  
 (c) **KSC - 600**                      (d) None of these