

Carriage & Wagon Objective type Question

(Answers are in Bold typeface.)

1. Riding Index of ICFCoachis----- --.
(a) **3.5** (b) 4.78 (c) 5.8 (d) 2.2
2. Maximum Speed of LHBCoachis ----- KMPH.
(a) 120 (b) **160** (c) 110 (d) 130
3. roller bearing is used in BTPN.
(a) Cylindrical (b) Plan (c) **Cartridge taper** (d) Ball
4. POH of BOX N Wagon is done at the interval of ----- month.
(a) 12 (b) 09 (c) 18 (d) **54**
5. POH of ICF Coach is done at the interval of ----- month.
(a) 24 (b) 12 (c) **18** (d) 30
6. Axle Load of Non- AC coach is ----- ton.
(a) 16.0 (b) **13.0** (c) 20.3 (d) 18.3
7. Minimum buffer height of coach from Rail level is ----- mm.
(a) **1030** (b) 1105 (c) 900 (d) 1075
8. Length of modified brake beam hanger in Indo-German project is ----- mm.
(a) 325 (b) **235** (c) 250 (d) 150
9. Maximum Flange thickness of worn wheel profile is ----- mm.
(a) 22 (b) 16 (c) **25** (d) 28.5
10. Roof sheet thickness in BCN Awagon is ----- mm.
(a) 2.4 (b) 0.6 (c) **1.6** (d) 2.5
11. Material of Floor sheet of BOX R wagon is -----
(a) Mild Steel (b) Corton Steel (c) **Stainless Steel** (d) Non of them
12. Wheel base of casnub bogie is ----- mm.
(a) **2000** (b) 2400 (c) 1200 (d) 900
13. Length of anchor link is ----- mm.
(a) **451** (b) 500 (c) 580 (d) None of these
14. Testing of alarm chain is done at ----- Kg weight.
(a) 05 (b) **10** (c) 25 (d) 20
15. Greasing of equalizing stay rod is done in ----- schedule.
(a) A (b) **B** (c) C (d) D
17. DCP Type fire extinguisher is suitable to extinguish ----- fire.
(a) **Diesel** (b) Electric (c) Petrol (d) **All**
18. There are ----- Nos. of lavatory in (ACF) of LHB coach
(a) 02 (b) **03** (c) 04 (d) 06
19. Minimum buffer height of goods wagon is ----- mm.
(a) **1030** (b) 1075 (c) 1105 (d) 995
20. Minimum Wheel dia of Casnub Bogie is ----- mm.
(a) 1000 (b) **906** (c) 1092 (d) 950
21. Condemn Thickness of Elastomeric Pad is ----- mm.
(a) 40 (b) **42** (c) 46 (d) None
22. ----- bearing is used in UIC Bogie.
(a) **Cylindrical** (b) Spherical (c) CTRB (d) None of these
23. Permissible variation in Wheel dia of same casnub bogies of awagon is ----- mm.
(a) 5 (b) 10 (c) **13** (d) 25
24. Permissible limit of sharp flange of Chg. wheel is ----- mm.
(a) 35 (b) 50 (c) 16 (d) **None of these**

25. mm packing is used in Casnub Bogie to adjust CBC height.
(a) 37 (b) 25 (c) 35 (d) None of these
26. A dimension of BOXN is ----- mm.
(a) 70 ± 2 (b) **$70+2-0$** (c) 50 ± 2 (d) 22 ± 2
27. In empty condition of BOXN Piston stroke is ----- mm.
(a) 75 ± 10 (b) **85 ± 10** (c) 130 ± 10 (d) 60 ± 10
28. BOXNHL feed pipe pressure is ----- Kg/Cm²
(a) 5 (b) 6 (c) 3.8 (d) None of these
29. Axle is checked by -----.
(a) DPT (b) UST (c) Wheel gauge (d) None of these
30. Track gauge distance on a straight track is ----- mm.
(a) **1676 ± 6** (b) $1600+2-1$ (c) 1599 (d) None
31. Over hauling of Alarm chain system is done after ----- Month.
(a) 3 (b) 5 (c) 9 (d) None of these
32. Centre pivot of Casnub Bogie is made of -----
(a) Cast Iron (b) **Cast steel** (c) Mild Steel (d) Stainless Steel
33. Proof load Capacity of enhance screw coupling is ----- ton.
(a) 36 (b) 70 (c) **75** (d) 130
34. In one unit of BLC wagon there are ----- car A unit.
(a) 3 (b) 5 (c) **2** (d) 4
35. Maximum buffer height of good wagon is ----- mm.
(a) 1030 (b) 1075 (c) **1105** (d) 995
36. Maximum Wheel dia of UIC bogie is ----- mm.
(a) **1000** (b) 990 (c) 1092 (d) 950
37. Free height of CCPad is -----.
(a) **114** (b) 36 (c) 56 (d) None of these
38. ----- bearing is used in casnub bogie.
(a) Cylindrical (b) Spherical (c) **CTRB** (d) None of these
39. Permissible Wheel dia difference of both casnub bogies of a wagon is ----- mm
(a) 5 (b) 10 (c) 13 (d) **25**
40. Permissible limit of Deep flange in wheel is ----- mm.
(a) **35** (b) 50 (c) 28 (d) 22
41. 37 MM packing is used in 22 WM casnub bogie to adjust CBC height wheel dia
mm
(a) **924** (b) 900 (c) 905 (d) 950
42. A dimension of BTPN is ----- mm.
(a) 70 ± 2 (b) **$70+2-0$** (c) 50 ± 2 (d) 22 ± 2
43. Piston stroke of BTPN (empty condition) is ----- mm.
(a) 70 ± 10 (b) **87 ± 10** (c) 130 ± 10 (d) 117 ± 10
44. Brake pipe pressure is ----- Kg/Cm²
(a) **5** (b) 6 (c) 3.8 (d) 4
45. ----- is checked with tyre defect gauge.
(a) **wheel defect** (b) Buckle defect (c) CBC defect (d) door defect
46. Wheel gauge (distance between two wheels) is -----.
(a) 1600 ± 2 (b) **$1600+2-1$** (c) 1599 (d) 1676 ± 3
47. Riding index of LHB coach is -----.
(a) **2.5** (b) 2.0 (c) 4.8 (d) None of these
48. Friction coefficient of K type composite brake block is -----.
(a) 1.4 (b) 2.8 (c) 1.6 (d) **0.25**
49. In one unit of BLC wagon there are ----- car B unit.
(a) 3 (b) **5** (c) 2 (d) 4
50. gms Grease is used in CTRB.
(a) **455 ± 30** (b) 250 ± 30 (c) NIL (d) 1500
51. ----- roller bearing is used in BTPGLN Coach.
(a) Cylindrical (b) Plan (c) **Cartridge taper** (d) Ball
52. Coach is done in the interval of ----- month.
(a) 12 (b) **9** (c) 18 (d) 54

53. Limit of flat tyre in wagon is ----- mm.
 (a) 20 (b) **50** (c) 75 (d) 60
54. Axle Load of AC coach is ----- Ton. (a) **16.3** (b) 13.3 (c) 20.3
 (d) 18.3
56. 'A' schedule of coaching stock is done after ----- month.
 (a) **01** (b) 03 (c) 09 (d) 12
57. Speed limit of A Class ODC during day is ----- kmph.
 (a) 100 (b) 110 (c) 90 (d) **40**
58. Minimum Flange thickness in worn wheel profile is ----- mm.
 (a) 22 (b) 16 (c) 25 (d) **20**
59. A- dimension of BOXN is ----- mm.
 (a) 85 (b) 22 (c) 16 (d) **70**
60. Material of Floor sheet of BOXNHL is -----
 (a) Mild Steel (b) Corton Steel (c) **IRSM 44** (d) None of these
61. Wheel base of UIC bogie is ----- mm.
 (a) **2000** (b) 2400 (c) 2896 (d) none of these
62. Lateral and longitudinal guidance to wheel of ICF bogie is taken from
 (a) **Dashpot** (b) Spring (c) Side bearer (d) None of these.
63. E- dimension of BOXN is ----- mm.
 (a) 255 (b) 300 (c) **555** (d) None of these.
64. Speed of Medical vane is fixed at ----- kmph.
 (a) **100** (b) 110 (c) 75 (d) 120
65. Permissible speed of 4 wheel tank wagon (in empty condition) is
 kmph (a) 100 (b) **60** (c) 90 (d) 110
66. Piston stroke of BVZL is ----- mm.
 (a) 22 (b) **32** (c) 72 (d) None of these.
67. Length of LHB coach is mm.
 (a) **23540** (b) 22996 (c) 26740 (d) 24351
68. Maximum diameter of Axle mounted Disc brake in LHB coach
 is mm (a) 890 (b) **640** (c) 540 (d) None of these.
69. Thickness of brake pad in disc brake system is mm
 (a) 32 (b) 38 (c) **35** (d) 40
70. No. of brake cylinders in one LHB coach are
 (a) **08** (b) 04 (c) 18 (d) 16
71. No. of dump valve in one LHB coach are
 (a) 08 (b) 02 (c) 06 (d) **04**
72. Type of coupler used in LHB coach is
 (a) **H-type.** (b) HETA (c) Alliance-II (d) None of these.
73. Cylinder Piston stroke of LHB coach is mm
 (a) 32 (b) 10 (c) **15** (d) None of these.
74. Cylinder dia of disc brake system is ----- inch.
 (a) 08 (b) 18 (c) **10** (d) 12
75. Capacity of auxiliary reservoir of LHB coach is litre
 (a) 100 (b) **125** (c) 200 (d) 150
76. Choke dia of PEAV of LHB coach is mm
 (a) 08 (b) **19** (c) 7.5 (d) None of these.
77. POH of LHB coach is done in the interval of ... months.
 (a) 12 (b) 18 (c) **36** (d) 48
78. Total no. of shock absorbers in fiat bogie are
 (a) 04 (b) 08 (c) **09** (d) None of these
79. No. of articulated arms in fiat bogie
 are (a) **04** (b) 08 (c) 06 (d) None
 of these.
80. Primary suspension used in fiat bogie is
 (a) **Double-nest coil spring** (b) single-nest coil spring (c) shock absorber (d) None of these.

81. Lateral & longitudinal guidance of fiat bogie is made by.....
 (a) Dashpot (b) **Articulated control arms** (c) side bearer. (d) None of these.
82. New Wheel dia of fiat bogie is..... mm
 (a) 940 (b) 825 (c) 1000 (d) **915**
83. Condemning wheel dia in FIAT bogie is... .. mm
 (a) **845** (b) 813 (c) 915 (d) None of these
84. type of bearing is used in FIAT Bogie:
 (a) Spherical Roller Bearing (b) **CTRB** (c) Ball Bearing (d) None of these
85. Type of coach body shell used in hybrid coach is:
 (a) **ICF** (b) LHB (c) BEML (d) None of these
86. Type of bogie used in hybrid coach is:
 (a) ICF (b) FIAT (c) **Modified ICF** (d) None of these
87. FIAT bogie is capable to negotiate the curve of 100 at the speed upto:
 (a) 100 Kmph (b) **60 Kmph** (c) 40 Kmph (d) 30 Kmph
88. Air Spring working pressure in Hybrid coach is _____ Kg/cm² :
 (a) 6 (b) 5 (c) 4.8 (d) 3.5
89. Capacity of main reservoir of air spring system is _____ Liter.
 (a) 180 (b) 170 (c) **150** (d) None of these
90. Capacity of Auxiliary Reservoir used in air spring is _____ Liter
 (a) 100 (b) 60 (c) 80 (d) **40**
91. Nos. of levelling valves fitted in one air spring bogie are:
 (a) **02** (b) 06 (c) 04 (d) 08
92. More than 1.5 Kg/cm² pressure drop in air spring fitted train the restricted speed is permissible up to _____ Kmph:
 (a) 50 (b) 40 (c) **60** (d) 25
93. No. of Duplex check valve fitted in Air Spring bogie are:
 (a) **01** (b) 04 (c) 05 (d) None of these
94. During Proper pressure in air spring the position of leveling valve becomes
 (a) Vertical (b) **Horizontal** (c) Inclined (d) None of these
95. In Air Spring Bogie gap maintained between lower plank and upper plank is... .. mm
 (a) 280 (b) 240 (c) 355 (d) **255**
96. Capacity of Intermediate Tank used for CDT is..... ltr
 (a) 100 (b) **50** (c) 60 (d) 80
97. In CDT supply of Air pressure is made through:
 (a) BP (b) AR (c) **FP** (d) None of these
98. Axle capacity of BOXNR wagon is _____ Tones:
 (a) 33.9 (b) 19.9 (c) **22.9** (d) None of these
99. Side panel thickness of BOXNR wagon is _____ mm.
 (a) **3.15** (b) 5.15 (c) 2.0 (d) 7.0
100. Floor Sheet thickness of BOXNR wagon is _____ mm.
 (a) 1.5 (b) **4.0** (c) 3.5 (d) None of these
101. Height of BOXNR wagon is _____ mm.
 (a) 2000 (b) 3125 (c) 1827 (d) **2127**
102. No. of side stanchions used in BOXNR wagon are:
 (a) 12 (b) **09** (c) 11 (d) None of these.
103. Floor sheet material used in BOXNR wagon is.....
 (a) IRSM-41 (b) Mild Steel (c) **IRSM-44** (d) None of these
104. H-type coupler is used in.....
 (a) **Coaching stock** (b) Wagon stock (c) Engine (d) none of these.
105. type of coupler is used in locomotive.
 (a) **AAR-'E'** (b) H-type (c) HTEA type (c) Alliance-II
106. Horizontal gripping in H-type coupler is... .. mm
 (a) **+/-110** (b) +/-90 (c) +/-80 (d) +/-100
107. Vertical gripping in H-type coupler is... .. mm
 (a) +/-110 (b) **+/-90** (c) +/-80 (d) +/-100
108. Draft gear is used with HTEA coupler
 (a) **RF-361** (b) HR-40-1 (c) HR-8-1. (d) none of these

In case of fully locked condition of knuckle in H-type coupler, Position of rib should be.....

(a) Vertical (b) Horizontal

(c) 60o (d) 45o

110. Standard distance between knuckle nose & guardarm is..... mm
(a) 127 (b) 135 (c) 130 (d) None of these.
111. Permissible wear in knuckle nose is..... mm
(a) 10 (b) 08 (c) 15 (d) 06
112. CBC knuckle is divided into..... zones
(a) 3 (b) 4 (c) 2 (d) 5
113. Position of CBC knuckle broken from knuckle pivot pin hole is called.....
(a) A-zone (b) B-zone (c) C-zone (d) D-zone
114. Position of CBC knuckle nose broken after wear is called.....
(a) A-zone (b) B-zone (c) C-zone (d) D-zone
115. Function of auxiliary anticreep is done by.....
(a) Lever connecting nose (b) locking piece (c) knuckle thrower (d) anti rotation lug
116. Size of anti rotation lug is..... mm
(a) 210 X 16 X 16 (b) 220 X 16 X 16 (c) 235 X 12 X 12 (d) 310 X 16 X 16
117. CBC control gauge No. 3 is used to detect the defect of.....
(a) Knuckle (b) locking piece (c) knuckle thrower (d) toggle
118. Capacity of RF-361 draft gear is..... Kgm
(a) 5385 (b) 5725 (c) 6200 (d) 6000
119. Capacity of MK-50 draft gear is..... Kgm
(a) 5385 (b) 5725 (c) 6200 (d) 6000
120. In wagon stock during service Maximum slack permitted in CBC is..... mm.
(a) 12 (b) 19 (c) 25 (d) None of these.
121. Stroke of H-type coupler in tension position is..... mm.
(a) 58 (b) 60 (c) 65 (d) 42
122. Stroke of H-type coupler in compressed position is..... mm.
(a) 80 (b) 60 (c) 65 (d) 42
123. Revised codal life of blanket used in line is..... months.
(a) 14 (b) 48 (c) 60 (d) 30
124. Quality of linen to be inspected percentage after receiving washed linen.
(a) 1 (b) 2 (c) 3 (d) 5
125. Slackless drawbar is used in..... wagon
(a) BLC (b) BOXNHA (c) BOXNEL (d) BOXNHL
126. Helical springs are used in..... draft gear.
(a) MK-50 (b) RF-361 (c) HR-40 (d) None of these.
127. Rehabilitation of coaching stock is carried out between.....
(a) 10 to 15 years (b) 12 to 15 years (c) 15 to 18 years (d) None of these.
128. The periodicity of pest control in AC coaches is.....
(a) 15 days (b) 7 days (c) 1 month (d) None of these.
129. Coach holding capacity of a coaching depot is.....
(a) Primary Coaches (b) Secondary coaches (c) Primary + 50% of Secondary coaches (d) None of these.
130. Side bearer oil level is checked at the interval of.....
(a) 15 days (b) one month (c) Two month (d) None of these.
131. Dirt collector should be cleaned at the interval of.....
(a) one month (b) Two month (c) Three month (d) None of these.
- 132..... Oil is used in dashpot guide?
(a) Servo RR-3 (b) Servoline 68 (c) Lithium base grease (d) None of these.
133. The standard thickness of compensating rings is.....
(a) 2 mm (b) 6 mm (c) 4 mm (d) 8 mm
134. Difference of Hardness of both wheels on the same axle should not be more than.....
(a) 70 BHN (b) 35 BHN (c) 65 BHN (d) 45 BHN
135. Total length of ICF axle is.....
(a) 2310+0.5/-0.0 (b) 2316+0.5/-0.0 (c) 2318+0.5/-0.0 (d) None of these.

136. On ICF journal, a taper should not exceed..... mm.
 (a) 0.010/0.015 (b) **0.015/0.010** (c) 0.010/0.025 (d) None of these.
137. The wheel gauge should be measured on.....
 (a) **Off load condition** (b) Loaded wagon (c) Empty wagon (d) None of these.
138. Types of side bearers fitted in CASNUB 22 HS bogie.....
 (a) metal CC type (b) **Spring loaded CC type side bearer & PU type** (c) Roller Type (d) None of these.
139. The diameter of buffer plunger face of ICF coach is.....
 (a) 552 mm (b) **457 mm** (c) 493 mm (d) 510 mm
140. The distance between two buffers at one end.....
 (a) **1956 mm** (b) 1952 mm (c) 1976 mm (d) 1992 mm
141. The ICF buffer plunger is made of.....
 (a) Mild Steel (b) **Cast Steel** (c) Cast iron (d) None of these.
142. Water tank capacity of ICF coach is.....
 (a) **1600 liter** (b) 1800 liter (c) 1700 liter (d) None of these.
143. The capacity of control reservoir of passenger coach is.....
 (a) 6 litre (b) 7 litre (c) **6 liter** (d) None of these.
144. After reaching on a accident site first step to.....
 (a) prima facie cause of accident (b) First aid of injured (c) **protection of site** (d) arranging food.
145. Work of Control reservoir in air brack system is.....
 (a) To control BP pressure (b) **To control DV valve** (c) To control Brack system (d) None of these.
146. The capacity of control reservoir in Goods Stock is.....
 (a) **6 litre** (b) 7 litre (c) 9 liter (d) None of these.
147. Brake power certificate issued for Premium rakes is valid for.....
 (a) 7+/-4 days (b) 10+/-2/o days (c) 15+/-3 days (d) **None of these.**
148. The colour of BPC of CC rake is.....
 (a) **Yellow** (b) Red (c) Green (d) None of these.
149. The colour of BPC of Premium rakes is.....
 (a) Yellow (b) Red (c) **Green** (d) None of these.
150. A category depot will issue BPC of CC rake valid up to.....
 (a) 4500 Km (b) 7500 Km (c) **6000 Km** (d) None of these.
151. Special A category depot will issue BPC of CC rake valid up to.....
 (a) 4500 Km (b) **7500 Km** (c) 6500 Km (d) None of these.
152. category depot will issue BPC of CC rake valid.....
 • **30 days** (b) 35 days (c) 45 days (d) None of these.
153. Special A category depot will issue BPC of CC rake valid.....
 (a) 30 days (b) **35 days** (c) 45 days (d) None of these.
154. The BPC of ballast train is valid for.....
 (a) **30 days** (b) 15 days (c) 7 days (d) None of these.
155. is the Maintenance manual of Casnub bogie
 (a) G 97 (b) **G 95** (c) G 72 (d) None of these.
156. The Maintenance manual of BOXN wagon fitted with Casnub bogie.....
 (a) G 97 (b) G 95 (c) **G 70** (d) None of these.
157. The time of overcharged protection in control chamber of coaching stock is.....
 (a) **25 sec** (b) 30 sec (c) 45 sec (d) None of these.
158. Working pressure of BTPN safety valve is.....
 (a) **1.4 kg/cm²** (b) 2.1 Kg/cm² (c) 4.1 Kg/cm² (d) None of these.
159. Automatic twist locks used in BLC wagon.....
 (a) 7 (b) **8** (c) 9 (d) None of these.
160. Force required to lock automatic twist lock of BLC wagon is.....
 (a) **600 Kg** (b) 700 Kg (c) 800 kg (d) None of these.
161. Force required releasing automatic twist lock of BLC wagon is.....
 (a) 600 Kg (b) 700 Kg (c) 800 kg (d) **1000 kg.**
162. Failure of locomotive is the class of accident
 (a) **J** (b) N (c) E (d) P.
163. If gauge is found more than 1682 mm it is termed as.....
 (a) **Slack gauge** (b) Standard gauge (c) Tight gauge (d) Short gauge.
164. As per accident manual accidents are classified in 16 categories from A to R excluding.....
 (a) B & D (b) **I & O** (c) P & Q (d) J & K
165. does not cover under definition of cattle as per accident Manual.
 (a) Cow (b) Elephant (c) Buffalo (d) **Donkey**

166. Rate of variation in cross level per meter is called
(a) **Twist** (b) Creep (c) Cant (d) Buckling
168. Cant or Super-elevation is provided at-----
(a) Straight track (b) Left curve only (c) Right curve only (d) **Curves.**
169. Clearance of check rail on the curves in BG.....
(a) 30mm (b) 36mm (c) **44 mm** (d) 50mm
170. Tack Gauge is measured... mm below the rail top
(a) **13mm** (b) 10mm (c) 14mm (d) 08mm
171. If gauge is found less than 1670 mm on straight track is termed as.....
(a) Slack gauge (b) Standard gauge (c) **Tight gauge** (d) Short gauge.
172. The standard wheel gauge of passenger BG coaching stock is—
(a) 1602mm (b) 1601mm (c) **1600mm** (d) 1598mm
173. Length over body of ICF BG coaches is—
(a) 2334mm (b) 2310mm (c) **21337mm** (d) 22132mm
174. Rigid wheelbase of ICF BG trolley is—
(a) **2896mm** (b) 2803mm (c) 2990mm (d) 2837mm
175. At what interval, the intensive cleaning of any coach is done?
(a) Three month (b) **One month** (c) Six month (d) Eight month
176. What is the interval for cleaning coach water tank?
(a) 15 days (b) 25 days (c) **one month** (d) two month
177. What is the period for the POH of any OCV attached to a passenger train?
(a) Nine month (b) 12 month (c) **18 month** (d) 24 month
178. What shall be the period for POH for a coach attached to Mail/Express train?
(a) 9 month (b) 12 month (c) **18 month** (d) 24 month
179. What shall be the period for POH of PCV attached with any other train other than mail/ Express train?
(a) 9 month (b) 12 month (c) **18 month** (d) 24 month
180. The other name of pilot valve is—
(a) PESAD (b) **PEASD** (c) PDEAS (d) EPASD
181. What is the period for POH of departmental coach?
(a) **24 month** (b) 36 month (c) 42 month (d) 60 month
182. What is the Transportation code of inspection carriage (Administrative)?
(a) **AR** (b) CR (c) IC (d) **RA**
183. As per policy circular No-4 secondary examination of mail/express has been skipped on round trip upto—
(a) 800Km (b) 1500Km (c) **3500Km** (d) 1800Km
184. In coach, the load transmission takes place through—
(a) Center pivot (b) Bogie (c) **Side bearer** (d) Wheel
185. The 'L' type composite brake block should be changed, if worn out beyond—
(a) **10mm** (b) 15mm (c) 20mm (d) 22mm
186. The 'K' type composite brake block should be changed, if worn out beyond—
(a) 10mm (b) **12mm** (c) 20mm (d) 22mm
187. Std. packing pieces of ICF coach is—
(a) 13, 14, 26mm (b) 13, 22, 28mm (c) **13, 26, 38, 48mm** (d) 22, 26, 32mm
188. Coaching stock accident involving human life enquiry by—
(a) CME (b) **CRS** (c) Sr. DME (d) ADRM
189. Yellow strips on end body of ICF indicate is—
(a) **Anti telescopic** (b) Dual brake (c) In built air brake (d) Non-Anti telescopic
190. For finding what defect UST is done?
(a) **Internal crack** (b) external crack (c) Air flow crack (d) None of the above
191. What is the life of steel bodied coaches (including dining/pantry cars)—
(a) 40 years (b) 30 years (c) **25 years** (d) 22 years
192. Codal life of light utilization categories of coaches is—
(a) **40 years** (b) 30 years (c) 25 years (d) 20 years
193. All newly built coaches shall be given IOH after—

- (a) One month (b) six month (c) one year (d) two year
194. The length over buffer of ICF/ RCF coach is-
(a) **22297mm** (b) 22299mm (c) 21996mm (d) 21030mm
195. Over all width of ICF/ RCF coach is-
(a) 3251mm (b) 3250mm (c) **3245mm** (d) 3991mm
196. The height from rail level of ICF/ RCF coach is (a) 3886mm (b) **4025mm**
(c) 3991mm (d) 3251mm
197. Rehabilitation of coaching stock is carried out between-
(a) 10 to 12 year (b) **12 to 15 year** (c) 15 to 18 year (d) 18 to 20 year
198. How many emergency windows provided in AC ICF/RCF coaches are-
(a) Two (b) Three (c) **Four** (d) Five
199. Rehabilitation cost of coaching stock is-
(a) 15% of the total cost (b) 20% of the total cost
(c) **25% of the total cost** (d) 35% of the total cost
200. What is the interval of schedule 'A' examination of a coach?
(a) **One month ± 3 days** (b) Two months ± 3 days
(c) Three months ± 6 days (d) None of the above
201. What is the interval of schedule 'B' examination of a coach?
(a) One month ± 3 days (b) Two months ± 3 days
(c) **Three months ± 7 days** (d) None of the above
202. What is the purpose of manipulator?
(a) For testing roller bearing (b) **For down hand welding**
(c) For ROH (d) For brake ring adjustment
203. What do you mean by FRP?
(a) Fibre recalling panel (b) **Fibre reinforced plastic**
(c) First reduction plastic (d) Fine reinforced panel
204. At what interval, the IOH of shatabdi coaches is?
(a) 12 months at workshop
(b) **9 months at workshop**
(c) 9 months at PM depot
(d) None of the above
205. What is the periodicity for IOH of ICF coaches?
(a) **9 months**
(b) 12 months
(c) 6 months
(d) None of the above
206. Where has been distraction tube provided in ICF/RCF coaches?
(a) **Between main head stock and auxiliary headstock**
(b) Outer main headstock
(c) With auxiliary head stock
(d) None of the above
207. The maximum standard buffer height above rail level to center of buffer is-
(a) 1085mm (b) 1100mm (c) **1105mm** (d) 1030mm
208. The minimum permissible buffer height above rail level to center of buffer is-
(a) 1105mm (b) 1145mm (c) 1115mm (d) **1030mm**
209. Standard buffer projection from Headstock is-
(a) 650mm (b) **635mm** (c) 620mm (d) 660mm
210. Minimum Permissible buffer projection from Headstock is-
(a) 635mm (b) 605mm (c) 590mm (d) **584mm**
211. The diameter of buffer plunger face of ICF coaches is-
(a) 552mm (b) **457mm** (c) 493mm (d) 510mm
212. What is the distance between two buffers at one end?
(a) 1952mm (b) 1976mm (c) **1956mm** (d) 1992mm
213. What is the maximum buffer plunger stroke in mm?
(a) **127.0mm** (b) 129.0mm (c) 131.0mm (d) 133.0mm

214. How the weight of the body is transferred on trolley in ICF coach?
 (a) Journal (b) Wheel (c) **Side bearer** (d) Dashpot
215. The ICF buffer plunger is made of—
 (a) Mildsteel (b) Costiron (c) **Caststeel** (d) AluminumAllo
216. In loaded condition, the minimum permissible height of buffer in ICF coach is—
 (a) 1090mm (b) 1105mm (c) **1030mm** (d) None of the above
217. The draw & buffing force transmission in coach is through—
 (a) **Centre pivot** (b) Bogie (c) Side bearer (d) Wheel
218. Hauling capacity of H type CBC is—
 (a) 7000ton (b) 8000ton (c) **9000ton** (d) 10000ton
219. What thickness of hard packing ring used for 889 to 864 mm diameter of two wheel sets of bogie in adjustment of buffer height?
 (a) 10.0mm (b) 12.0mm (c) **13.0mm** (d) 20.0mm
220. What thickness of hard packing ring used for 863 to 840 mm diameter of two wheel sets of bogie in adjustment of buffer height?
 (a) 12.0mm (b) 16.0mm (c) 20.0mm (d) **26.0mm**
221. Thickness of hard packing ring used for 839 to 820 mm diameter of two wheel sets of bogie in adjustment of buffer height is—
 (a) 16.0mm (b) 20.0mm (c) **38.0mm** (d) 46.0mm
222. Thickness of hard packing ring used for 819mm diameter of two wheel sets of bogie in adjustment of buffer height is—
 (a) 20.0mm (b) 38.0mm (c) 46.0mm (d) **48.0mm**
223. Nominal thickness of buffer casing body wall is—
 (a) 9.50mm (b) 10.50mm (c) **11.50mm** (d) 13.50mm
224. What is wear limit of buffer casing body wall?
 (a) 2.50mm (b) 3.50mm (c) 4.50mm (d) **5.50mm**
225. What is the weakest link of the 'H' type tight lock center buffer coupler?
 (a) Draft gear (b) **Knuckle** (c) Lock (d) Yoke pin
226. Destruction tube is provided inside the—
 (a) **Buffer** (b) Head stock (c) undersolebar (d) None

AIR BRAKE

228. Capacity of air reservoir (AR) of the coach is—
 (a) 150 Lit. (b) **200 Lit** (c) 250 Lit. (d) 300 Lit.
229. 'A' dimension of a passenger train (Non AC coach) is—
 (a) 14 ± 2 mm (b) **$16 + 2/-0$ mm** (c) 16 ± 4 mm (d) 18 ± 2 mm
- In an AC coach, 'A' dimension should be—
 (a) 18 ± 2 mm (b) 20 ± 2 mm (c) 22 ± 2 mm (d) **$22 + 2/-0$ mm**
231. In a passenger train 'e' dimension is—
 (a) 378 ± 20 mm (b) **375 ± 25 mm** (c) 370 ± 10 mm (d) 380 ± 20 mm
232. In the passenger train, the diameter of brake pipe & feed pipe is—
 (a) 20.0mm (b) **25.0mm** (c) 28.0mm (d) 30.0 mm
233. In the passenger train, the diameter of branch pipe is—
 (a) 15.0mm (b) 18.0mm (c) **20.0mm** (d) 22.0 mm
234. What is the diameter of branch pipe in between PEAV to PEASD?
 (a) **10.0mm** (b) 25.0mm (c) 30.0mm (d) 20.0 mm
235. During full service application, Brake pipe pressure is dropped to—
 (a) 2.0 Kg/cm^2 (b) 1.0 Kg/cm^2 (c) 3.0 Kg/cm^2 (d) **1.5 Kg/cm^2**
236. At originating station the brake power percentage for mail/express train should be —
 (a) 85% (b) 90% (c) **100%** (d) 75%
237. Cut off angle cock can be fitted to—
 (a) FP (b) BP (c) **BP & FP both** (d) None of the above
238. What is the piston stroke of air brake coaching train fitted with modified horizontal lever?
 (a) 60 ± 10 mm (b) 80 ± 10 mm (c) 85 ± 15 mm (d) 85 ± 5 mm

239. What is the diameter of bogie mounted brake cylinder?
 (a) 220mm (b) 210mm (c) **203mm** (d) 200mm
240. The brake cylinder diameter of conventional air brake system is—
 (a) 205mm (b) **355mm** (c) 325mm (d) 305mm
241. The rate of air leakage in single car testing should not be more than—
 (a) 0.02 Kg/cm²/min (b) 1.0 Kg/cm²/min (c) **0.2 Kg/cm²/min** (d) 0.1 Kg/cm²/min
242. In emergency application the brake cylinder pressure rises from 0-3.6 kg/cm² in—
 (a) 15-20sec (b) 5-10sec (c) **3-5sec** (d) 8-10sec
243. Check valve with choke allows air from—
 (a) BP to FP (b) FP to CR (c) **FP to AR** (d) AR to BC
244. When brake is manually released by QRV, which pressure will be vented out?
 (a) BC pressure (b) AR pressure (c) BP pressure (d) **CR pressure**
245. What is the pressure of control reservoir in coaching trains?
 (a) 6.0 Kg/cm² (b) **5.0 Kg/cm²** (c) 6.0 to 2.0 Kg/cm² (d) 4.8 Kg/cm²
246. In coaching trains, auxiliary reservoir is charged to—
 (a) 5.0 Kg/cm² (b) **6.0 Kg/cm²** (c) 4.8 Kg/cm² (d) 5.5 Kg/cm²
247. Reduction in BP pressure for minimum application is—
 (a) 1.0 to 1.5 Kg/cm² (b) 0.8 to 1.0 Kg/cm² (c) **0.5 to 0.8 Kg/cm²** (d) 0.1 to 0.5 Kg/cm²
248. Reduction in BP pressure for service application is—
 (a) 1.0 to 0.5 Kg/cm² (b) 1.0 to 1.5 Kg/cm² (c) 0.5 to 0.8 Kg/cm² (d) **0.8 to 1.0 Kg/cm²**
249. Reduction in BP pressure for full service application is—
 (a) **1.0 to 1.5 Kg/cm²** (b) 0.8 to 1.0 Kg/cm² (c) 0.5 to 0.8 Kg/cm² (d) 0.1 to 0.5 Kg/cm²
250. Reduction in BP pressure for emergency application is—
 (a) 1.0 to 1.5 Kg/cm² (b) **1.5 to 3.8 Kg/cm²** (c) 0.5 to 0.8 Kg/cm² (d) 3.8 to 5.0 Kg/cm²
251. How many dirt collectors are fitted with under frame mounted air brake system on every coach?
 (a) Two (b) One (c) Three (d) None of the above
252. What is the choke diameter of guard's emergency brake valve?
 (a) 4.0mm (b) 5.0mm (c) 6.0mm (d) **8.0mm**
253. What type of slack adjuster is used in passenger coaches?
 (a) DRV-600 (b) None (c) **IRSA-450** (d) IRSA-600
254. For testing C3W DV, the AR charging time from 0 to 4.8 kg/cm² is—
 (a) 170±10sec (b) **175±30sec** (c) 280±30sec (d) 210±20sec
255. For testing KE type DV, the AR charging time from 0 to 4.8 kg/cm² is—
 (a) **160 to 210sec** (b) 210 to 260sec (c) 260 to 280sec (d) 180 to 200sec
256. For testing C3W DV, the CR charging time from 0 to 4.8 kg/cm² is—
 (a) 170±10sec (b) **165±20sec** (c) 160±10sec (d) 210±20sec
257. For testing KE type DV, the CR charging time from 0 to 4.8 kg/cm² is—
 (a) 170±10sec (b) **160±40sec** (c) 160±10sec (d) 210±20sec
258. The three-branch pipe attached to common pipe bracket, where the middle pipe leads to
 (a) CR (b) DV (c) BC (d) **AR**
259. During brake release, air from BC goes to
 (a) AR (b) CR (c) DV (d) **Atmosphere**
260. At what schedule, testing of pressure gauge and replacement of the defective gauge in SLR?
 (a) **IOH** (b) 'A' schedule (c) 'B' Schedule (d) Special schedule
261. The type of dirt collector, used in bogie mounted passenger coach is—
 (a) **2-way** (b) 4-way (c) 3-way (d) single way
262. When DV is working condition the position of DV handle is—
 (a) Horizontal (b) Inclined (c) **Vertical** (d) Parallel
263. The en-route brake power percentages of passenger BG coaching train is—
 (a) 85% (b) **90%** (c) 100% (d) Not specified
264. What is the capacity of control reservoir of passenger coach?
 (a) **10.0 litre** (b) 6.0 litre (c) 7.0 litre (d) 9.0 litre
265. What should be the effective maximum pressure in brake cylinder during full service application is
 (a) 3.6 ± 0.1 Kg/cm² (b) 3.7 ± 0.1 Kg/cm² (c) **3.8 ± 0.1 Kg/cm²** (d) 4.1 ± 0.1 Kg/cm²
266. DV is directly mounted on—
 (a) **AR** (b) Brake pipe (c) Brake cylinder (d) Common pipe bracket

267. Which one of the following valve in DV controls charging of CR?
 a. Main valve (b) **Cutoff valve** (c) Quick service valve (d) Limiting device
268. Control reservoir in air brake system is—
 a. To control FP pressure (b) To control DV valve
 (c) **To control Brake system** (d) None of the above
269. Auxiliary reservoir is assisting in—
 a. Charging of DV (b) Charging of BP
 (c) **Sending air to BC** (d) Charging of CR
270. Dirt Collector should be cleaned within—
 a. At the time of IOH (b) **At the time of 'A' schedule**
 (c) At the time of POH (d) At the time of 'B' schedule
271. In air brake system, brake should apply when the rate of drop of air pressure in BP is—
 a. **0.6 Kg/cm²/min in six sec** (b) 0.3 Kg/cm² in one sec
 (c) 0.4 Kg/cm² in one sec (d) 0.1 Kg/cm² in one sec
272. In air brake system, brake should not apply when the rate of drop of air pressure in BP is—
 a. **0.3 Kg/cm² in 60 sec** (b) 0.4 Kg/cm² in 4 sec
 (c) 0.5 Kg/cm² in 30 sec (d) 0.8 Kg/cm² in 8 sec
273. The function of non-return valve used in air brake system is—
 a. To reduce BP (b) **To prevent flow of air from AR to FP**
 (c) To prevent CR to be charged (d) To prevent flow of air from CR to BP
274. Which equipment are not charged, when DV is isolated
 a. **Control reservoir and brake cylinder** (b) Brake cylinder
 (c) Control reservoir auxiliary reservoir (d) Auxiliary reservoir and brake cylinder
275. The vent hole is provided in the cut off angle cock to (when angle cock is closed)
 a. **Exhaust air pressure of air hose into atmosphere** (b) The amount of vacuum
 (c) To arrest air pressure from air hose (d) None of the above

COACHING

276. What is the thickness of roof sheet in ICF coach?
 (a) 2.1mm (b) 1.9mm (c) 1.8mm (d) **1.6mm**
277. Water tank capacity of ICF coach is—
 a. 1600 litre (b) **1800 litre** (c) 1500 litre (d) 2000 litre
278. Under shung tank capacity of roof mounted AC coaches fitted with WRA system is—
 a. **1600 Litre** (b) 1700 Litre (c) 1800 Litre (d) 2000 Litre
279. What is the meaning of WSP?
 a. Water speed protection (b) **Wheel slide protection**
 (c) Wheel solid profile (d) None of the above
280. Minimum and Maximum air pressure required for WRA is—
 (a) **0.35 Kg/cm² & 0.75 Kg/cm²** (b) 0.45 Kg/cm² & 0.5 Kg/cm²
 (c) 0.55 Kg/cm² & 0.6 Kg/cm² (d) 0.65 Kg/cm² & 0.75 Kg/cm²
281. Sole bar of ICF coach consists of—
 a. **Z section** (b) I section (c) Y section (d) U section
282. What capacity of the equalizing stays of the shatabdi Exp.?
 a. 22 tons (b) 20 tons (c) **16 tons** (d) 14 tons
283. What is amount of the oil per side bearer in ICF coaches?
 a. 1.2 letter (b) 1.6 letter (c) **2.0 letter** (d) 2.2 letter
284. What is the distance between side bearers of ICF coach?
 (a) 1560mm (b) 1590mm (c) **1600mm** (d) 1610mm
285. What is the oil level in dashpot?
 (a) 50.0mm (b) **40.0mm** (c) 75.0mm (d) 90.0mm

286. What should be the interval of check the dashpot oil in mail/Express train?
a. 15 days (b) 25 days (c) **one month** (d) two month
287. What is the amount of oil per dashpot in 40-mm depth in modified guide arrangement?
a. **1.6 Litre** (b) 2.5 Litre (c) 2.2 Litre (d) 1.9 Litre
288. What is the interval of check the side bearer oil?
a. **One month** (b) 25 days (c) 15 days (d) 10 days
289. In bogie mounted air brake systems, the No of brake cylinder in a coach are
(a) 8 (b) 6 (c) 2 (d) **4**
290. The weight of the coach is transferred through-
a. **Side bearer** (b) Equalizing stay (c) Helical spring (d) Bolster
291. Center pivot pin does not transmit any-
a. Horizontal load (b) Tractive (c) Breaking force (d) **Vertical force**
292. New dimension of side bearers wearing plate is-
(a) **10.0 mm** (b) 12.0 mm (c) 14.0 mm (d) 16.0 mm
293. What is shop renewal dimension of side bearer wearing plate?
(a) 10.0 mm (b) **9.0 mm** (c) 8.0 mm (d) 7.5 mm
294. Condemning size of side bearer wearing plate is-
(a) 10.0 mm (b) 9.0 mm (c) **8.50 mm** (d) 7.50 mm
295. Newly dimension of side bearer wearing pieces is-
(a) **45.0 mm** (b) 44.0 mm (c) 43.0 mm (d) 42.0 mm
296. Shop renewal size of side bearer wearing piece is-
(a) 45.0 mm (b) 44.50 mm (c) **43.50 mm** (d) 42.50 mm
297. What is the condemning size of side bearer wearing piece?
(a) 45.0 mm (b) 44.0 mm (c) 43.0 mm (d) **42.0 mm**
298. Diagonal gauge for axle guide of 13 t & 16.25 t bogie is-
(a) 3912 ± 1.0 mm (b) 3812 ± 1.0 mm (c) 3712 ± 1.0 mm (d) **3612 ± 1.0 mm**
299. Which type brake system, external slack adjuster have been eliminated?
a. **BMBC** (b) UMBS (c) BMBS & UMBS (d) None of the above
300. What is the modification of equalizing stay rod?
a. **Fitted 16 tons in all coaches** (b) fitted 18 t o tons in all coaches
(c) Fitted 14 tons in all coaches (d) none of the above
301. The color code of helical spring of ICF bogie is-
a. **Yellow, blue, green** (b) Yellow, red, green
(c) White, blue, green (d) White, red, green
302. What type of axle guidance arrangement used in ICF/RCF bogie?
a. Oil clamping (b) **Telescopic axle guide with oil damping**
(c) Vertical oil damping (d) pneumatic axle guide
303. One of the function of Anchor links?
a. To joint bolster and side frame
b. **To prevent rational movement of bolster**
c. To connect with upper plank and lower plank
d. None of the above
304. Which type of grease used in roller bearing in ICF coach?
a. Servo-20 (b) **Lithium base** (c) Servo-40 (d) Graphite-20
305. What quantity of grease filled per axle box of SKF make bearing?
(a) 1.75 kg (b) **2.00 kg** (c) 2.25 kg (d) 2.5 kg
306. What quantity of grease filled per axle box of other than SKF make bearing?
(a) **1.75 kg** (b) 2.00 kg (c) 2.25 kg (d) 2.5 kg
307. LHB coaches are provided with what type of bearing?
a. Spherical type (b) Plain bearing (c) **CTRB** (d) None of the above
308. In air brake coach, PEAV & PEASD is connected to branch pipe is-
a. FP (b) **BP** (c) BC (d) DV
309. The pulling force required for alarm chain testing should not be more than-

- (a)12kg (b)10kg (c)20kg (d) 30kg
 310. What is the choke size of PEAV
 (a)4.0mm (b)5.0mm (c)6.0mm (d) **8.0mm**
 311. What is the chock size of Guard emergency brakevalve?
 (a)**8.0mm** (b)6.0mm (c)5.0mm (d) 4.0mm
 312. At what schedule, the over hauling and testing of alarm chain apparatus isdone
 a. 'A'schedule (b) **'B'schedules**
 (c)'C'schedule (d) Specialschedule
 313. The full name of PEAV is--
 a. Powerenergyvalve (b) Passenger entrancevalve
 (c) **Passenger emergency alarm valve** (d) Pipe emergency valve
 314. PEAV & PEASD can be isolatedby-
 a. Isolate isolating cock between branch pipe of BP &DV
 b. Isolate isolating cock between branch pipe of FP&BP
 c. **Isolate isolating cock fitted in branchpipe**
 d. Isolate isolating cock ofBC
 315. What is the free height of 16.25 tons axle boxspring?
 (a)360mm (b)365mm (c)**375mm** (d) 380mm
 316. What is the free height of non-AC coach axle boxspring?
 (a)355mm (b)**360mm** (c)367mm (d) 370mm
 317. Free height of all non-AC ICF type axle box spring is-
 (a)375mm (b)372mm (c)**360mm** (d) 315mm
 318. Free height of AC ICF type bolster coil spring is-
 (a)375mm (b)385mm (c)**400mm** (d) 416mm
 319. What is co lour code of 'A' group coil springis
 a. **Yellow** (b)Green (c)oxfordblue (d)White
 320. What is co lour code of 'B' group coil spring is-
 a. **Oxfordblue** (b)White (c)Green (d)Yellow
 321. What is co lour code of 'C' group coil spring is-
 a. Oxfordblue (b)White (c)**Green** (d) Yellow
 322. Piston stroke (coach) of bogie mounted brake cylinder is--
 (a)28mm (b)**32mm** (c)36mm (d) 38mm
 323. In BMBS hole adjustment of curved pull rod to be donewhen wheel diameter reaches to -
 a. **839mm** (b)842mm (c)846mm (d) None of theabove
 324. Permissiblevariationsinwheeltreaddiameterforfour-wheeledbogieonthesameaxleonBGis
 (while turning the wheel)
 (a)**0.5mm** (b)0.49mm (c)0.30mm (d) 0.45mm
 325. Permissible variations in wheel tread diameter on the same coach on BG is -(while turning
 the wheel)
 (a)12.0mm (b)10.0mm (c)11.0mm (d) **13.0mm**
 326. Permissible variations in wheel tread diameter for the same bogie on BG is -(while turning the
 wheel)
 (a)10.0mm (b)7.0mm (c)**5.0mm** (d) 8.0mm
 327. The axle load of AC coaches is--
 (a)22.0tons (b) **16.25 tons** (c)15.0tons (d) 14.50tons
 328. Axle load capacity of generator (WLLRM) coach is--
 (a)16.0tons (b) **16.25 tons** (c)15.0tons (d) 20.30tons
 329. The use of 13 tons axle load bogie is in--
 a. PVH (b)AC (c)PowerCar (d) **NonAC**
 330. Flat faces on BG coach is permitted up to--
 (a)60.0mm (b)**50.0mm** (c)75.0mm (d) 90.0mm
 331. High speed ICF coach condemning flange thickness is--
 (a)14.0mm (b)13.0mm (c)**22.0mm** (d) 10.0mm
 332. Lateral movements of wheels are controlled by--
 a. **Axle Guide** (b)Journalcenter (c)rollerbearing (d) Deshpot
 b.
 333. Bogie wheelbase of ICF/ RCF all coil bogies are-

334. Min shop issue size of ICF solid wheel is—
 (a) **2896mm** (b) 2986mm (c) 2886mm (d) 2997mm
335. Flange thickness of new BG wheel coach is—
 (a) 837mm (b) 870mm (c) 854mm (d) 8746mm
336. The radius of the root of flange of new BG wheel is—
 (a) **28.0mm** (b) **28.50mm** (c) 29.50mm (d) 27.50mm
337. Condemning height of flange on tread on BG wheel is—
 (a) **14.0mm** (b) 16.0mm (c) 18.0mm (d) 19.0mm
338. Condemning size of radius at the top of flange (Sharp flange) of BG main line coach wheel is—
 (a) 30.0mm (b) 32.0mm (c) 34.0mm (d) **35.0mm**
339. Means of WRA is—
 (a) 8.0mm (b) **5.0mm** (c) 10.0mm (d) 12.0mm
339. Means of WRA is—
 a. **Water raising apparatus** (b) White race assistance
 (c) Water recording agreement (d) None of the above

GOODS STOCK

340. Permissible variation in new wheel tread diameter on the same axle on BG bogie wagon is—
 (a) 0.45mm (b) **0.5 mm** (c) 0.35mm (d) 0.3mm
341. Permissible variation in wheel tread diameter on the same trolley of BG wagon while changing the wheel is—
 (a) 10mm (b) **13mm** (c) 12mm (d) 15mm
342. Permissible variation in wheel tread diameter on the same wagon of BG while changing the wheel is—
 (a) 13mm (b) **25mm** (c) 30mm (d) 28mm
343. The composite Brake block in yard for air Bk. train should be changed when thickness is—
 (a) **10.0mm** (b) 15.0mm (c) 20.0mm (d) 25.0mm
344. Of which brake van the quick coupling is the part—
 a. BVZT (b) BVZX (c) **BVZC** (d) BVZM
345. What is the length over Headstock of the BOXN wagon?
 (a) 9774mm (b) **9784mm** (c) 9777mm (d) 9848mm
346. Tare weight of the BOXN wagon is—
 (a) 22.37tons. (b) **22.47tons.** (c) 22.91tons. (d) 22.90tons.
347. What is the length over couplers of the BOXN wagon?
 (a) 10713mm (b) **10813mm** (c) 11002mm (d) 10100mm
348. What is the length over couplers of the BCN wagon?
 (a) 15400mm (b) 15443mm (c) **15429mm** (d) 15562mm
349. Gross load of the BOXN wagon is—
 (a) 78.92t (b) **81.28T** (c) 86.78t (d) 88.81t
350. In accident manual, train parting is under—
 a. **Jclass** (b) Kclass (c) Cclass (d) Pclass
351. Newly built BOXN wagon first POH periodicity is—
 a. 4.5year (b) 5.5year (c) **6.0year** (d) 6.5year
352. Newly built BLC containers wagon first POH periodicity is—
 a. 4.5year (b) 2.0year (c) **6.0year** (d) 3.5year
353. Board gauge track gauge is—
 (a) **1676mm** (b) 1667mm (c) 1698mm (d) 1500mm
354. POH of BG brake van is—
 a. 3.5year (b) **2.0year** (c) 2.5year (d) 3.0year
355. Torque value of Cartridge type roller bearing cap screw is—
 (a) 42.0kg-m. (b) **40.0kg-m.** (c) 38.0kg-m. (d) 44.0kg-m.
356. C- class ODC shall be moved during—

- a. **Daylight** (b) Day-nighttime
(c) Onlynighttime (d) None of theabove
357. In air brake system, the thread joints are tightened with which type oftape?
a. Cellotape (b) **Teflontape**
(c) Papertape (d) None of theabove
358. Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogies and air brake system, What RDSO's technical pamphlet isused?
(a) G-90 (b) **G-70** (c) G-97 (d) WT-77
359. Instructions for inspection and maintenance of CASNUB bogies, What RDSO's technical pamphlet is used?
(a) G-97 (b) G-86 (c) G-90 (d) **G- 95**
360. As per new wagon numbering scheme, first two digits willindicate-
a. OwningRailway (b) **Typeofwagon** (c) Year of manufacture (d) Cheekdigit
361. What do you mean byPME?
a. Premedicalexamination (b) Pre maintenanceexamination
(c) **Periodicalmaintenanceexamination** (d) Power mechanicalequipment
362. What do you mean by CCrakes?
a. Contentcontactpad. (b) **Close circuitrake**
(c) Completecoalrake (d) All theabove
363. The minimum permissible buffer height above rail line to center of H/ Stock under loaded condition is -
(a) 1105mm (b) 1145mm (c) 1115mm (d) **1030mm**
364. Standard diameter of knuckle pivot pin is-
(a) 50mm (b) 43mm (c) **41.28mm** (d) 34mm
365. Standard dimension of shank wear plate for AAR coupler is-
a. 12mm (b) 8mm (c) **6mm** (d) 14mm
366. Standard dimension of distance between the nose of Knuckle and guard arm is-
(a) 140mm (b) 150mm (c) **127mm** (d) 12mm
367. The maximum permissible free slack in the draft gear in service is-
(a) 35mm (b) 30mm (c) **25mm** (d) 20mm
368. No. of CBC gauge are-
(a) 5 (b) **8** (c) 12 (d) 2
369. The high capacity draft gears are-
(a) Mark -20&RF-401 (b) **Mark 50 &RF361**
(c) CF21&RF-600 (d) DF 39 &RF-21
370. To Adjust buffer height for 930 mm wheel diameter on BCN wagon except CASNUB 22 W, packing piece used is-
(a) 38mm (b) **37mm** (c) 33mm (d) 32mm
371. What type of center buffer coupler used in IndianRailway?
a. APRT type (b) AARP type (c) **AARtype** (d) ARPAtype
372. The working strength of center buffer coupler is-
(a) 100t (b) **120t** (c) 140t (d) 180t
373. ThetractiveeffortoftheLocototheindividualwagonsistransmittedwiththehelpof-
a. CBC (b) **Drawgear** (c) Knuckle (d) Sideframe
374. Clevis and Clevis pin are the part of-
a. Alliance-IIcoupler (b) Non- Transition coupler
(c) **Transitioncoupler** (d) Drawbar
375. Standard diameters of wheel on BOXN Wagon is -
(a) 1010 &900mm (b) **1000 & 906mm**
(c) 950 &906mm (d) 906 & 813mm
376. The axle load of BOXN, BCN, BRN, BOBR, BTPN wagon is-
(a) **22.9t** (b) 20.32t (c) 16.6 t (d) 12.2t
377. The wheel gauge should be measured on-
a. **Off load condition** (b) Loadedwagon (c) Bothcondition (d) Emptywagon

378. The lowest wheel dia permitted by workshop for BOXN wagon is-
 (a) **919mm** (b) 906mm (c) 925mm (d) 860mm
379. In CTRB the grease use per Axle box is-
 (a) **455±30gms** (b) 490±15gms (c) 500±35 gms (d) 550±20gms
380. The condemning diameter of BTPN wheel is-
 (a) 813mm (b) 990mm (c) **906mm** (d) 860mm
381. Permissible maximum flat surface on tread on other BG wagon are-
 (a) 75mm (b) **60mm** (c) 75mm (d) 70mm
382. What is an integrated portion of the axle?
 a. Cap (b) Roller bearing
 (c) **Journal** (d) None of the above
383. Standard dimension 'e' in SAB on Goods stock is
 - (a) 550 to 570mm (b) **555 to 575mm**
 (c) 570 to 580mm (d) 555 to 565mm
384. The colour coding of distributor valve of air brake goods stock is-
 a. Yellow (b) **Black** (c) Green (d) White
385. In air brake end-to-end rakes, After intensive examination validity of BPC remains upto the-
 a. Next station (b) Loading point (c) **Destination point** (d) 72 Hours
386. Control rod diameter of air brake wagon is-
 (a) 30mm (b) **32mm** (c) 38mm (d) 40mm
387. Piston stroke of BOXN wagon in empty conditions is-
 (a) **85±10mm** (b) 70±15mm (c) 75±5mm (d) 80±10mm
388. Piston stroke of BOXN wagon in loaded conditions is-
 (a) 140±15 mm (b) **130±10 mm** (c) 120±15 mm (d) 125±15 mm
389. In air brake stock, BPC becomes invalid, if the rake is stabled in any examination yard for more than-
 a. **24 hours** (b) 36 hours (c) 48 hours (d) 12 hours
390. Dirt collector of a wagon should be cleaned within-
 a. **At the time of ROH** (b) 2 month (c) 6 month (d) 3 month
391. What is the capacity of control reservoir in good strain?
 a. 4 Lit. (b) **6 Lit** (c) 8 Lit. (d) 10 Lit.
392. The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than -
 (a) 4.5 kg/ Cm² (b) 3.7 kg/ Cm² (c) **4.8 kg/ Cm²** (d) 5.8 kg/ Cm²
393. When we release manually KE type DV, the air pressure release form-
 a. CR & AR (b) BC & AR (c) **CR & BC** (d) AR & DV
394. The diameter of branch pipe of BP to DV for wagon is-
 (a) 25mm (b) **20mm** (c) 13mm (d) 22mm
395. 'A' dimension in Boxn wagon is-
 (a) **70±2mm** (b) 172±3mm (c) 175±4mm (d) 175±1mm

396. For testing Air pressure locomotive the test plate hole diameter is-
 (a) 8.2mm (b) **7.5mm** (c) 9.5mm (d) 10mm
397. The diameter of air brake cylinder BOXN wagon is-
 (a) 300mm (b) **355mm** (c) 360mm (d) 315mm
398. The diameter of air brake cylinder in BVZC (Wagon) is-
 (a) **300mm** (b) 295mm (c) 305mm (d) 315mm
399. The capacity of Auxiliary Reservoir (wagon) in air brake except Bk. Vanis-
 a. 200litre (b) **100litre** (c) 300litre (d) 150litre
400. In Single pipe system the time taken in releasing of the wagon brake is-
 (a) **60Sec.** (b) 120Sec. (c) 210Sec. (d) 90Sec.
401. Distance between the control rod head and the barrel of SAB is named as-
 a. 'E' dimensions (b) 'C' dimension (c) **'A' dimension** (d) "d" dimension
402. The capacity of compressor machine for air brake testing of rake is-
 (a) 12-15Kg/Cm² (b) **8-10Kg/Cm²** (c) 7-12Kg/Cm² (d) 7-8 Kg/Cm²
403. At the originating point, minimum brake power of premium end-to-end rake is -
 (a) 85% (b) 95% (c) 90% (d) 98%
404. The brake power of CC rake from nodal point is-
 (a) 90% (b) **100%** (c) 85% (d) 75%
405. Brake power certified issued for Premium end-to-end rakes will be valid for-
 a. 10+5days (b) **12+3 days** (c) 15+3days (d) one month
406. What is the function of DC (Dirt collector)?
 a. Collect dirt (b) Collect air (c) **Clean air** (d) Clean CR
407. How much pressure should drop in a minute after putting a test plate in locomotive?
 (a) 0.8Kg/Cm² (b) **1.0Kg/Cm²** (c) 1.2Kg/Cm² (d) 1.5 Kg/Cm²
408. The colour for brake power certificate for Premium end-to-end rake is-
 a. **Green** (b) White (c) Pink (d) Yellow
409. For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm² is - (a) 30-40sec
 (b) 40-50sec (c) **45-60sec** (d) 50-75sec
410. What is the piston stroke of BVZC wagons?
 (a) 50±10mm (b) **70±10mm** (c) 85±10mm (d) 90± 5mm
411. What is the empty piston stroke of BOBR/BOBRN wagon is-
 (a) 70±10mm (b) 75±10mm (c) 80±10 mm (d) **100±10mm**
412. 'A' dimension of the BOBRN wagon is-
 (a) 29±2 mm (b) **27± 2 mm** (c) 33±2mm (d) 25±5mm
413. What is the colour of BPC of air brake CC rake?
 a. Red (b) Pink (c) Green (d) **Yellow**
414. Control rod of SAB when rotated for one round, control rod head moves by a distance of (a) 6.0mm (b) 4.0mm (c) **2.0mm** (d) 1.0mm
415. In wagon, hand brake is used when-
 a. **Standing in yard** (b) Running in down gradient
 (c) Running in up gradient (d) None of the above
416. SAB adjust clearance between-
 a. **Wheel and brake block** (b) Tie Rod and Brake block
 (c) Anchor pin to control rod (d) None of the above
417. The M.R. pressure of engine should be-
 (a) 6.0 to 8.0Kg/Cm² (b) **8.0 to 10.0 Kg/Cm²**
 (c) 10.0 to 12.0Kg/Cm² (d) 12.0 to 15.0 Kg/Cm²
418. What do you mean of SWTR?
 a. Single wagon test rubber (b) **Single wagon test rig**
 (c) Sliding wagon test string (d) None of the above
419. If C3W type DV is manually released, pressure is released from-
 a. AR (b) Control reservoir
 (c) Brake cylinder (d) **All above**
420. To uncouple BP or FP air hose it is essential to
 a. Open adjacent angle cock (b) **Close adjacent angle cocks**
 (c) Close supply of air from loco (d) None of the above

421. The Empty Load Device indicator plate shows-
a. **Yellow empty, blackloaded** (b) Blue empty, blackloaded
(c) White empty, blackloaded (d) black empty, blue loaded
422. The first step of releasing brake binding in conventional A/B system is to-
a. Open vent plug of BC (b) Rotate SAB
(c) Take out pin of SAB (d) **Isolate DV & release manually.**
423. The Type of dirt collector, used in wagon is-
a. 2-way (b) **3-way**
(c) Branch pipe of BP to DV (d) In BP
424. The function of Return spring provided in air brake cylinder is-
a. To push the spring out side the piston
b. **To push the piston inside the cylinder**
c. To push the dead lever
d. To push the control rod
425. Standard thickness of UIC/CASNUB bogies composite brake block is-
(a) 60mm (b) 45mm (c) 55mm (d) **58mm**
426. How many side frame fitted in CASNUB trolley / bogie?
(a) **2** (b) 1 (c) 3 (d) Nil
427. What is the axle load of CASNUB trolley?
(a) 19.2ton (b) **22.9ton** (c) 20.3ton. (d) 20.9ton
428. What is the new wheel diameter CASNUB 22 w(Retrofitted)?
(a) 1000mm (b) 960 mm (c) **956mm** (d) 946mm
429. What type of pivot used in CASNUB 22WM, 22NL and other type of CASNUB trolley?
a. IR type (b) **Spherical type** (c) other type
430. What is the nominal lateral clearance between side frame & axle box/adopter Casnub 22NL, 22NLB, 22HS bogie?
(a) 18mm (b) **16mm** (c) 22mm (d) 25mm
431. What is the standard inclination on wheel tread?
(a) **1 in 20** (b) 1 in 22 (c) 1 in 18 (d) 1 in 25
432. How many types of adopters used in CASNUB trolley?
(a) 2 (b) 1 (c) **3** (d) 4
433. Condemning size of elastomeric pad for Casnub bogie is-
(a) 44mm (b) 43mm (c) **42mm** (d) 40mm
434. Nominal dimension of side bearer rubber pad for Casnub bogie is-
(a) **114mm** (b) 116mm (c) 118mm (d) 120mm
435. Condemning size of side bearer rubber pad for Casnub bogie is-
(a) 111mm (b) 110mm (c) **109mm** (d) 108mm
436. What type of side bearers fitted in CASNUB 22HS trolley?
a. Metal CC type (b) **Spring loaded CC type side bearer & PU type**
(c) Roll type (d) none of the above
437. Which types of steel are used in side frame column friction plates of Casnub bogie?
a. Mild steel (b) Carbon steel
© **Silicomanganese steel** (d) None of the above
438. What is the standard inclination on wheel flange?
(a) 1 in 5 (b) **1 in 2.5** (c) 1 in 10 (d) 1 in 20

SPECIAL WAGONS

439. Pay load of BTPN tank wagon is-
(a) 58.88tons (b) **54.28tons** (c) 55.80tons (d) 52.3tons
440. Axle load of BTPN tank wagon is-
(a) **20.32tons** (b) 22.35tons (c) 21.35tons (d) 25.22tons
441. Cleaning of bitumen barrel is carried out with-
a. **Kerosene oil** (b) petrol (c) leadium (d) None of the above
442. Name the type of coupling used in BLC wagon?
a. **CBC & Slack Less Drawbar** (b) HTCBC
(c) Screw coupling (d) Slackness drawbars
443. Barrel length of BTPN tank wagon is-
(a) 11460mm (b) 11550mm (c) **11458mm** (d) 12100mm
444. Barrel diameter of BTPN tank wagon is-

- (a)2860mm (b)2850mm (c)2840mm (d) 2830mm
445. The mechanical code of bogie Petrol tank wagon fitted with pneumatic brake is-
a. **BTPN** (b)LBM (c)LBM (d)LCT
446. The mechanical code of caustic soda tank wagon is-
a. CTB&CTBS (b) **TCS&BTCS** (c) THA&BTCS (d) TCS&MBTS
447. Codal life of Tank wagon is-
a. 35year (b)**45year** (c)50year (d) 25year
448. In the tank wagon, close the vapour extractor cock after-
a. Unloading (b)**Loading** (c)Running (d) None of theabove
449. Working pressure of BTPN safety valve is-
(a) **1.4 Kg/cm²**(b)4.1Kg/cm² (c)2.1Kg/cm² (d) 1.2Kg/cm²
450. Interval of ROH in BTPN tank wagon is-
a. 16month (b) 20month
(c)18month (d) **24 month**
451. Cleaning of H₂SO₄ tank wagon is carried out with-
a. Lithiumphosphate (b) **Sodiumphosphate**
(c) Bromide phosphate (d) None of the above
452. Air tightens test pressure of master valve is-
(a) **0.35 to .056kg/Cm²** (b) 0.45 to 0.65 kg/Cm²
(c) 0.65 to 0.75kg/Cm² (d) None of theabove
453. What is the location of safety valves fitted in liquefied petroleum gas tankwagon?
a. **Insidedome** (b) Outsidedome
(c) Outsideonbarrel (d) None of theabove
454. Condemning limit of BLC wheel set is-
(a)900mm (b)800mm (c)670mm (d) **780mm**
455. For lifting the container, force required to lift the container on automatic twist lock is- (a)1050Kg (b)**1000Kg** (c)1100Kg (d) 11590Kg
456. InplaceofemptyloadboxwhatdeviceisusedinBLCwagon?
a. BSD (b)**LSD** (c)SDF (d)SAB
457. What is the material specification of BLC wagontrrolley?
a. **Caststeel** (b) Lowcaststeel (c)Steel (d) Micro steel
458. Length of over Slack less draw bar for B-car of BLC wagon is-
(a)14566mm (b)13156mm (c)**12212mm** (d) 14763mm
459. The standard height of platform for BLC wagon from Rail level is-
(a)1010mm (b)1015mm (c)**1009mm** (d) 1100mm
459. The axle load capacity of BLC wagon is-
(a)20.10ton. (b)**20.32ton.** (c)21.10ton. (d) 23.10ton.
460. The tare weight of A-car of BLC wagon is-
(a)21.20ton. (b)**19.10ton.** (c)19.80ton. (d) 20.22ton.
461. The tare weight of B- car of BLC wagon is-
(a)**18.10ton.** (b)19.10ton. (c)19.80ton. (d) 20.20ton.
462. Length of over Headstock to Headstock for A-car of BLC wagon is-
(a)**13650mm** (b)13625mm (c)13555mm (d) 13365mm
463. In BLC wagon, height of slackness drowbar system from Rail level is-
(a)890mm (b)848mm (c)**845mm** (d) 910mm
464. How many automatic twist locks used in BLCwagon?
(a)6 (b)**8** (c)10 (d)12
465. Rake carrying capacity of the BLC wagon is-
a. 40wagons (b)**45wagons** (c)40wagons (d) 48wagons
466. Which type of side bearer arrangement used in BLCtrolley?
a. Elestromatic (b) constant contacttype
(c) **Spring loaded side bearer andPUpad** (d) None of theabove
467. Which type of trolley used in BLCwagon?
a. UICtrolley (b) **Cast steel bogie type LCCF 20(C)**
(c)IRStrolley (d) Diamond frametrolley
468. For automatic locking & for lifting of automatic twist lock how much force is Kg required, respectively?
(a) **600 &1000Kg** (b) 800 & 1200Kg
(c) 1000 &500Kg (d) 500 & 1350Kg

469. What type of roller bearing used in BLC wagon?
- a. Cartagetype (b) tapered two-row cartridge roller bearing
(c) Sparicaltype (d) planbearing
470. What is the loading capacity of containers in BLC wagon?
- a. Two 20' or one 40' (b) Two 22' or one 45'
(c) Three 15' or two 20' (d) Two 20' or one 45'

True or false

1. Axle mounted disc system is provided in ICF coach.(T/F)
2. 19 mm choke dia is provided in PEAV of LHB Coach(T/F)
3. Maximum dia of axle mounted disc in LHB Coach is 640 mm(T/F)
4. 2 No. of Air Conditioning Plant are provided in AC LHB Coach(T/F)
5. Brake Cylinder dia of LHB Coach is 10 inch. (T/F)
6. Piston Stroke of brake cylinder fitted in LHB Coach is 32 mm (T/F)
7. Only Primary Suspension is provided in Fiat Bogie(T/F)
8. POH of LHB Coach is carried out at nominated workshop(T/F)
9. POH of LHB Coach is done on an interval of 36 months(T/F)
10. IOH of LHB Coach is done on an interval of 18 months(T/F)
11. Articulated control arms are provided in ICF Coach(T/F)
12. Lateral and longitudinal guidance is provided by articulated arm in fiat bogie(T/F)
13. Condemning wheel diameter of LHB Coach is 825 mm(T/F)
14. WSP system is provided in LHB Coach(T/F)
15. CDTs System is not provided in LHB Coach (T/F)
16. Maximum permissible speed of LHB Coach is 200 Km/h(T/F)
17. CDTs discharges toilet waste only when train crosses the speed of 30 KMPH.(T/F)
18. Weight per meter length of LHB coach is approximate 10% less than conventional Coach.(T/F)
19. Single nest coil spring primary suspension is used in FIAT. (T/F)
20. Air spring pressure in hybrid coach is 5 kg/cm² .(T/F)
21. There are 4 number of leveling valve provided in hybrid coach. . (T/F)
22. In air spring ICF bogie 04 No. of duplex check valve are fitted. .(T/F)
23. Position of leveling valve lever will be horizontal in air spring in case of proper Pressure.(T/F)
24. 22.9 Tone is the axle load capacity of BOXN-R wagon. (T/F)
25. BOXN-R wagon body is made of stainless steel(IRS-44). (T/F)
26. Floor sheet thickness OF BOXN-R wagon is 3.5 mm. (T/F)
27. Side panel thickness of BOXN-R wagon is 2.0 mm. (T/F)
28. In CDTs supply of air pressure is made through BP. (T/F)
29. Main reservoir capacity of air spring fitted coach is 150 L.(T/F)
30. Phonic wheel sensor is provided for detecting the speed in LHB coaches.(T/F)
31. H type coupler is used in locomotives. (T/F)
32. HTEA type coupler is used in wagon stock(T/F)
33. Horizontal Gathering in H type coupler is +/- 110 mm(T/F)
34. Knuckle pivot pin is provided in CBC to transfer tractive force. (T/F)
35. Contour gauge no. 3 is used to detect defect in locking piece provided in CBC.(T/F)
36. Distance between lever connector nose and bottom of the coupler body should not be less than 25 mm(T/F)
37. Clear visibility of tell – tale slot in V shape of rotary lever indicates proper locking of Knuckle.(T/F)
38. Function of anti creep device is to resist unlocking of CBC.(T/F)
39. RF 361 draft gear is provided with H type coupler(T/F)
40. MK-50 Draft Gear is provided with HTEA type coupler(T/F)
41. Shank wear plate is provided in coupler body(T/F)
42. Yoke pin is a headless pin(T/F)

43. Elastomeric pads are provided in MK-50 draft gear.(T/F)
44. Hauling capacity of HTEA coupler is 9000 ton. (T/F)
45. Knuckle thrower in CBC is provided to unlock the CBC.(T/F)
46. CBC operating handle is provided at right hand end of wagon.(T/F)
47. Capacity of RF-361 draft gear is 5725 kgm.(T/F)
48. Capacity of MK-50 draft gear is 5385 kgm(T/F)
49. Capacity of HR-40 draft gear is 6200 kgm(T/F)
50. Size of bearing piece slot of CBC operating handle is 17.5 mm(T/F)
51. H type coupler is provided in LHB and ICF coaches both.(T/F)
52. Inclination of slot in bearing piece slot of operating handle is 150 .(T/F)
53. preload of draft gear in H type coupler is 30 kg N.(T/F)
54. Maximum variation in CBC height is 75 mm.(T/F)
55. CBC components are lubricated during ROH wagon.(T/F)
56. Standard distance between knuckle nose and guard arm is 130 mm.(T/F)
57. Knuckle pin is made of class V steel.(T/F)
58. Yoke pin is made of class IV steel.(T/F)
59. All electric locomotives are fitted with transition type CBC.(T/F)
60. Toggle is a part of rotary lever assembly of CBC.(T/F)
61. Cartage taper roller bearing is used in ICF Bogie.(T/F)
62. IOH of ICF coach is done in after 09 months.(T/F)
63. 'A' dimension of AC coach is 16520 mm(T/F)
64. Oil level in dashpot is 60mm. (T/F)
65. Meaning of CIA is carriage alteration instructions. (T/F)
66. Over hauling of Alarm Chain System is done in BSchedule. (T/F)
67. Oil Capacity of Non- modified dashpot of ICF coach is 1.4 liter.(T/F)
68. Speed of A class ODC in night is 40 KMPH. (T/F)
69. IOH of shatabadi coach is done in 09 months. (T/F)
70. Codal life of PCV is 40 years.(T/F)
71. RA is a OCV. (T/F)
72. Over hauling of DV of BOXN wagon is done in 4.5 Year.(T/F)
73. CTRB is used in BMBS Wagon.(T/F)
74. Steaming is not done in tank wagon during POH. (T/F)
75. Flat tyre limit on wagon is 65mm. (T/F)
76. Wheel base of UIC Bogie is 2000±5 mm. (T/F)
77. 12mm and 37 mm packing is used in UIC bogie. (T/F)
78. Axle load of BOXN HA wagon is 22.9 Ton. (T/F)
79. Codal Life BOXN is 30 year. (T/F)
80. RA is a PCV. (T/F)
81. Over hauling of coach DV is done in 05 Year. (T/F)
82. SAB is fitted in BMBC (T/F)
83. Steam Cleaning of tank wagon is done during ROH (T/F)
84. Flat tyre limit of wagon is 50MM. (T/F)
85. Wheel base of casnub bogie is 2000+/-10mm. (T/F)
86. 12mm and 37 mm packing is used in casnub bogie. (T/F)
87. Axle load of BOXN HS wagon is 22.9 Ton. (T/F)
88. Spherical roller bearing is used in ICF Bogie (T/F)
89. POH of BVZI is done at the interval of 09 months (T/F)
90. WAI means Carriage Alteration Instructions. (T/F)
91. A- dimension of AC coach is 18±2/0 mm. (T/F)
92. Breakage of CBC Knuckle is a 'S' mark rejection. (T/F)
93. President of IRCA is General Manager of Northern Railway. (T/F)
94. Wear in Knuckle of CBC is a 'S' mark rejection. (T/F)
95. IRCA Rule Book part III is applied for wagon stock. (T/F)

96. IRCA Rule Book part IV is applied for coaching stock. (T/F)
97. Breakage of spring is without 'S' mark rejection. (T/F)
98. Rejections are given in chapter IV of IRCA Rule Book part III & IV. (T/F)
99. Instruction of Rule Book part III & IV are mandatory to follow for maintenance. (T/F)
100. Neutral Control department works under the control of Member Mechanical. (T/F)
101. Maximum variation in CBC height is 75 mm. (T/F)
102. CBC components are lubricated during ROH wagon. (T/F)
103. Standard distance between knuckle nose and guard arm is 130 mm. (T/F)
104. Knuckle pin is made of class V steel. (T/F)
105. Yoke pin is made of class IV steel. (T/F)
106. All electric locomotives are fitted with transition type CBC. (T/F)
107. Toggle is a part of rotary lever assembly of CBC. (T/F)
108. Carriage taper roller bearing is used in ICF Bogie. (T/F)
109. IOH of ICF coach is done in after 09 months. (T/F)
110. 'A' dimension of AC coach is 16520 mm. (T/F)
111. Oil level in dashpot is 60 mm. (T/F)
112. Meaning of CIA is carriage alteration instructions. (T/F)
113. Overhauling of Alarm Chain System is done in BS schedule. (T/F)
114. Oil Capacity of Non-modified dashpot of ICF coach is 1.4 liter. (T/F)
115. Speed of A class ODC in night is 40 KMPH. (T/F)
116. IOH of shatabdi coach is done in 09 months. (T/F)
117. Codal life of PCV is 40 years. (T/F)
118. RA is a PCV. (T/F)
119. Overhauling of DV of BOXN wagon is done in 4.5 Year. (T/F)
73. CTRB is used in BMBS Wagon. (T/F)
120. Steaming is not done in tank wagon during POH. (T/F)
121. Flat tyre limit on wagon is 65 mm. (T/F)
122. Wheel base of UIC Bogie is 2000 ± 5 mm. (T/F)
123. 12 mm and 37 mm packing is used in UIC bogie. (T/F)
124. Axle load of BOXN HA wagon is 22.9 Ton. (T/F)
125. Codal Life BOXN is 30 year. (T/F)
126. RA is a PCV. (T/F)
127. overhauling of coach DV is done in 05 Year. (T/F)
128. SAB is fitted in BMBC (T/F)
129. Steam Cleaning of tank wagon is done during ROH (T/F)
-)
130. Flat tyre limit of wagon is 50 MM. (T/F)
131. Wheel base of casnub bogie is 2000 ± 10 mm. (T/F)
132. 12 mm and 37 mm packing is used in casnub bogie. (T/F)
-) 87 Axle load of BOXN HS wagon is 22.9 Ton. (T/F)
-)
133. Spherical roller bearing is used in ICF Bogie (T/F)
134. POH of BVZI is done at the interval of 09 months (T/F)
135. WAI means Carriage Alteration Instructions. (T/F)
136. A- dimension of AC coach is 18 ± 2/0 mm. (T/F)
137. Breakage of CBC Knuckle is a 'S' mark rejection. (T/F)
138. President of IRCA is General Manager of Northern Railway. (T/F)
139. Wear in Knuckle of CBC is a 'S' mark rejection. (T/F)
140. IRCA Rule Book part III is applied for wagon stock. (T/F)
141. IRCA Rule Book part IV is applied for coaching stock. (T/F)
142. Breakage of spring is without 'S' mark rejection. (T/F)
143. Rejections are given in chapter IV of IRCA Rule Book part III & IV. (T/F)

144. Instruction of Rule Book part III & IV are mandatory to follow for maintenance. (T/F)
145. Neutral Control department works under the control of Member Mechanical. (T/F)
146. 22.9 Tonne is the axle load capacity of BOXN-R wagon. (T/F)
147. BOXN-R wagon body is made of stainless steel (IRSM-44). (T/F)
148. Floor sheet thickness OF BOXN-R wagon is 3.5mm. (T/F)
149. Side panel thickness of BOXN-R wagon is 2.0mm. (T/F)
150. 12mm and 27 mm packing is used in Casnub bogie. (T/F)
151. Axle load of BOXN HA wagon is 22.9 Tonne. (T/F)
152. Codal Life BOXN is 30 year. (T/F)
153. Axle load of BOXN HS wagon is 22.9 Tonne. (T/F)
154. POH of BVZI is done at the interval of 9 months. (T/F)
155. Wear in Knuckle of CBC is a 'S' mark rejection. (T/F)

QUESTION OF CARRIAGE & WAGON

1. What is the permissible leakage in a LHB coach --- **0.2 kg/cm²/m**
2. What is the permissible leakage in a ICF coach --- **0.2 kg/cm²/m**
3. What are the maximum air-pressure entered in brake cylinder of LHB coach --- **3 kg/cm²**
4. What are the maximum air-pressure entered in brake cylinder of ICF coach --- **3.8 kg/cm²**
5. What is the permissible leakage in air brake Goods rake --- **0.25 kg/cm²/m**
6. What is the permissible leakage in air brake Locomotive tested by test disc --- **0.1 kg/cm²/5m**
7. From where air comes to brake cylinder at the time of application in air brake system --- **Auxiliary reservoir (AR)**
8. Which portion of the wheel contacts with rail --- **Tread.**
9. What is the diameter of test disc hole of (Test Couple) for capability test of train Engine --- **7.5 mm**
10. ----- What of any coach for light speed train damaged, if the thickness of the flange becomes ----- **than 16 mm.**
11. What of any coach for High speed train damaged, if the thickness of the flange becomes ----- **than 22 mm.**
12. ----- Which of the following wheel defects can be detected at time of rolling examination ----- **Flat place.**
13. ----- What is the wheel flange thickness of intermediate WWP in stage ----- **25 mm 22MM 20MM**
14. ----- What is the wheel gauge for broad gauge ----- **1600 (+2, -1)**
15. ----- What is the Codal life of ICF/BEML all coil AB coach ----- **25 yrs.**
16. ----- What is the Codal life of BCN, BRN all coil AB coach ----- **35 Years.**
17. ----- What is the Codal life of Boxn all coil AB coach ----- **30 Years.**
18. What is the Codal life of LHB all coil C coach --- **not specified till date.**
19. ----- What is the POH interval of Boxn (new coach) Wagon ----- **06 yrs**

20. -----What is the oil level specified in modified axle box guide in Dashpot ----- **40mm.**
21. -----How much quantity of oil is required to archive 40 mm oil level in modified axle guide with dashpot arrangement-- **1.6ltr.**
22. -----What is the size(diameter)of BMBC coach brake cylinder ----- **203mm**
23. -----What is the size(diameter)of LHB coach brake cylinder ----- **mm**
24. -----What is the size(diameter)of CASNUB coach brake cylinder **254mm**
25. -----What are the thermal defect other than profile defects of coaching wheel, write any five defects ----- 1) **Sharp flange**, 2) **Deep flange**, 3) **Thin flange**, 4) **Hollow tyre**, 5) **Thin tyre**, 6) **Flat place** and 7) **Root radius.**
26. -----What force for pulling is specified to test Alarm Chain (PEASD) of coach for correct working ----- **7 to 10kg force.**
27. -----What is axle diameter of 13 Ton ICF bogie **145mm**
28. -----What is axle diameter of 16 Ton ICF bogie **152mm**
29. -----What type roller bearing is providing in ICF coach **Spherical type.**
30. -----Where use cartridge type roller bearing **LHB** and **Freight stock.**
31. Where use tapered type roller bearing ----- **LHB and Wagon.**
32. -----Where use spherical type roller bearing **ICF coach**
33. What is the minimum projection of buffer from headstock is allowed in BG ICF coaches (Rajdhani) -----
34. What is the minimum projection of drawbar hook shoulder beyond headstock of ICF conventional coaches ----- **610**
35. What is the name of "spring" for primary suspension of ICF coaches ----- **Axle box spring**
36. -----What is the interval for IOH of ICF BG coaches with 18 month based POH periodicity ----- **9 month**
37. -----For what purpose used SF-11 **Minor Penalty.**
38. -----For what purpose used SF-05 **Major Penalty.**
39. For what purpose used NS-11 ----- **for returning of material from shop floor to Stores.**
40. -----Primary trip above km & maintained **3500 km. & Base end.**
41. -----Secondary trip above km -- **Ans. 3500 km. & other base end.** 42. Round trip below km & maintained ----- **3500km**
43. How many Coaching depots in HWH div ----- **TKPR, SYAE, JS, BWN, AZ.**
44. What is pressure found in BP -- **Ans. 5kg/cm²/m**
45. Phonic wheel fitted in ----- **LHB coaches.**
46. OBHS maintenance where ----- **On the train.**
47. "Flat place" is one kind of ----- **Wheel defect.**
48. In air brake system, air pressure of Auxiliary reservoir is ----- **Kg /sq.cm.**
51. Screw coupling is used in ----- **ICF coach.**
52. -----When DV is working condition the position of DV handle is ----- **Vertical.**
53. Air hose pipe length ----- **839mm**
54. Passenger train BP & FP (hose pipe) diameter -- **25mm**
55. Passenger train BP & FP (branch pipe) diameter --- **20mm**
56. Wheel base (ICF) ----- **2896mm**
57. -----Wheel base/Axle distance (LHB) **2560mm**
58. -----Wheel base (CASNUB) **2005mm**
59. -----Wheel gauge **1600+2/-1mm.**
60. -----Line gauge/ Track gauge (BG) **1776mm**
61. What is the choke diameter of guard emergency brake valve -- **8mm**
62. Wheel diameter of new wheel (LHB) ----- **915mm**

63. -----Wheel diameter of max. Wornwheel (LHB) **845mm.**
64. -----Wheel diameter of newwheel(ICF) **915mm.**
65. -----Wheel diameter of max.wheel (ICF) **825mm**
66. Wheel diameter of new wheel(CASNUBTROLLEY) -- **1000mm.**
67. -----Wheel diameter of new wheel(CASNUBTROLLEY) -----**906mm**
68. -----Distance between centerspivot(LHB **14900mm**
69. How many brake cylinders are used inLHBcoaches -- **8nos**
70. Brake system used onLHBcoaches -----**8 nos**
71. What is the capacity of A R tank on LHBcoaches-----**200 (125+75)**
72. The standard wheel gauge of passenger BG coachingstockis - **1600 mm.**
73. Length over body of ICF BGcoaches is --- **21337mm.**
74. Rigid wheelbase of ICF BGtrolley is----- **2896mm.**
75. At, what interval, the intensive cleaning of any coachisdone---- **Onemonth.**
76. What is the period for the POH of any OCV attached toMail/exptrain --- **18month**
77. What is the interval for cleaning coach watertankis ---- **Onemonth.**
78. What shall be the period for POH of PCV attached with any other trains other mail/exptrainis- **18 month.**
79. -----The other name of Pilotvalveis **PEASD.**
80. What is the period for POH ofdepartmentalcoach ----- **36month**
81. What is the Transportation code of inspectioncarriage(administrative)-----**RA**
82. In coach, the load transmission takeplace through--- **Sidebearer.**
83. The'L'typecompositebrakeblockshouldbechanged,ifwornbeyond----- **10mm.**
84. The'K'typecompositebrakeblockshouldbechanged,ifwornbeyond ----- **12mm.**
85. Std. packing piece of ICFcoachis ----- **13, 26, 38 &48mm.**
86. Coaching stock accident involving human lifeenquiryby ----- **CRS(commissioner ofRailway safety)**
87. Yellow strips on end body of ICFindicate is ----- **Antitelescopic.**
88. For finding what defect USTisdone----- **internal crack.**
89. What is the codal life of steel bodied coaches (including dining /pantry cars) -----**25years.**
90. Coudal life of light utilization categories ofcoaches is-----**40years.**
91. All newly built coaches shall be givenIOHafter ----- **One year.**
92. The length over buffer of ICF/RCFcoachis ----- **22297mm.**
93. Over all width of ICF/RCFcoachis ----- **3245mm.**
94. The height from rail level of ICF/RCfcoachis ----- **4025mm.**
95. Rehabilitation of coaching stock is carriedout between-----**12 to 15years.**
96. How many emergency windows provided in AC ICF/RCFcoachesare----- **Four**
97. Rehabilitation cost of coachingstockis ----- **25% of the totalcost.**
98. Whatistheintervalofschedule'A'examinationofacoach ----- **One month+/-3days.**
99. Whatistheintervalofschedule'B'examinationofacoach-----**Three month+/- 7days**
100. -----What is the purposeofmanipulator For down handwelding
101. -----What do you meanby FRP **Fibre reinforcedplastic.**
102. What is the periodicity for IOH ofICFcoaches -----**9month**
103. -----At what interval, the IOH of shatabdicoachesis **9 month atworkshop.**
104. Where has been destruction tube providedinICF/RCF -----**Between main headstockand auxiliary head stock.**
105. -----The maximum standard buffer height above rail level to center ofbufferis-----**1105mm.**
106. The minimum standard buffer height above rail level to center ofbufferis----- **1030mm.**

107. Standard buffer projection from Headstock is ----- 635mm. Condemn 610mm
108. ----- The diameter of buffer plunger face of ICF coach is ----- 457mm.
109. ----- What is distance between two buffers at one end ----- 1956mm
110. What is the maximum buffer plunger stock in mm ----- 127mm
111. ----- How the weight of the body is transferred on trolley in ICF coach ----- Sidebearer.
112. ----- The ICF buffer plunger is made of ----- Cast steel.
113. ----- In loaded condition, the minimum permissible height of buffer in ICF coach is ----- 1030mm
114. ----- The draw & buffing force transmission in coach is through ----- Center pivot.
115. ----- Hauling capacity of H type CBC is 9000 ton.
116. ----- What thickness of hard packing ring used for 889 to 864 mm diameter of two wheel sets of bogie in adjustment of buffer height ----- 13mm
117. ----- What thickness of hard packing ring used for 863 to 840 mm diameter of two wheel sets of bogie in adjustment of buffer height ----- 26mm
118. ----- What thickness of hard packing ring used for 839 to 820 mm diameter of two wheel sets of bogie in adjustment of buffer height ----- 38mm
119. SAB 'E' dimension for BOXN wagon is 555 to 575mm
120. SAB 'A' dimension for 13 T axle load coach is 16+2-0mm
121. SAB 'A' dimension for ICF coach with brake lever ratio of 1:5.5 is 22+2-0mm (AC coach)
122. When 'E' dimension of SAB decreases it indicates brake block worn. Worn out wheels, pins and bushes.
123. The type of grease used in ICF spherical roller bearings is lithium base grease.
124. The dash pot oil level under tare condition is 40mm
125. Draw and braking forces will be taken by Anchor links in ICF bogie.
126. Silent Block (Rubber bush) has been fitted in bogie components to reduce noise
127. To control the lateral swing of the bolster Equalizing stays have been provided on ICF bogies.
128. Life of other coaching vehicles (light usage) is 40 years
129. The gap between brake block and wheel tread on ICF coach to be maintained is 5mm
130. ICF solid wheel maximum diameter is 915mm
131. Inflammable fluid tank wagons are checked with battery operated torchlights.
132. Hot axle can be detected through visual observation in rolling examination.
133. ICF coaches are provided with bearings: self aligned spherical roller bearings
134. Wheel discs are fitted on axles with shrunk fit
135. Projection of buffer from head stock should be within:
a) 700 to 715mm (b) 680 to 695mm
(c) 600 to 635mm (d) 1030 kg. M.
136. Integral coach factory located at Perambur
137. In BOXN wagon SABs are with "A" dimension: 70mm
138. PEASD is provided with 8 mm choke
139. In empty load device empty indication have colour code yellow
140. CASNUB 22W(M) new wheel diameter is 1000mm
141. How do you measure buffer height of a coach? Rail table to center of buffer face
142. Which is the most frequent reason for Train parting on AAR coupler? Failure of Knuckles
143. What is the function of check valve with choke provided in the air brake system?
To permit flow of air from the FP to the AR but not in the reverse direction.
144. What is the following is the function of PEAV
Facilitate the passenger to intimate the driver to stop the train by reducing air pressure.
145. In C3W distributor valve which sub-assembly help in manual release of brakes? Double release valve.
146. Twin Pipe Braking Helps in Reduces release time
147. In case of coaching stock accident where human loss is there the enquiry will be conducted by
CRS (commissioner of railway safety)

148. During release after full service application in air brake wagon the brake should release within 60 seconds.
149. What is the maximum pressure in the brake cylinder when the driver drops the BP pressure by 1.6 Kg/cm²? 3.8 Kg/Cm²
150. What is the maximum wheel diameter of BOXN wagon fitted with CASNUB 22W retrofitted bogie? 956mm.
151. What is the new and condemning diameter of wheels fitted on ICF WGACCW coach? 915mm & 813mm
152. What is the Permissible variation in wheel diameter on the same trolley and on the same BOXN wagon? 13mm & 25mm
153. What is the permissible variation in wheel tread diameter on the same bogie and on the same coach on BG ICF design at the time of wheel changing? 5mm & 13mm
154. What is the lowest permissible wheel diameter for a coach turned out after POH from workshops? 837mm
155. What is the Permissible wheel gauge of wheels on an ICF coach as per revised IRCA part IV? 1600 +2/-1mm
156. What is the distance between journal center on CASNUB bogie? 2260mm
157. What is the permissible flat surface on wheel tread of BOX "N" wagons as per the latest instructions? 60mm
158. What is the root radius when new for wheel turned to worn wheel profile? 14mm
159. What is the Axle load of coach running on Rajadhani express? 16.25 tonnes
160. What is the Condemning flange thickness of wheels fitted on ICF coach running at 110 Kmph.? 22mm
161. What is the revised torque value for tightening end locking screws fitted on CTRB of BOXN wagon? 40 kg.Mt.
162. What is the maximum and minimum Buffer heights to be maintained on an ICF coach under tare condition? 1105mm to 1090mm.
163. What is indication for ensuring proper coupling of CBC during train examination?
19 mm clearance between toggle and coupler body
164. At what wheel diameter reduction Brake adjustment of CASNUB bogie is done? 18mm
165. In C3W distributor valve, through which sub assembly the control reservoir is charged ?
Cut off valve
166. In KE distributor valve, through which sub assembly the auxiliary reservoir is charged?
R-Charger
167. Which defect in C3W Distributor Valve causes brake binding?
Main valve check valve damaged.
168. Which defect in KE type of Distributor valve makes the cylinder Inoperative?
Main diaphragm perished or Quick release valve leaking
169. Working Piston stroke of Bogie mounted brake cylinder? 32mm
170. Maximum slack take up capacity of a Bogie mounted brake cylinder? 305mm
171. In bogie mounted brake system at what wheel diameter the brake gear connection should be shifted to next inner hole of connecting link? 839mm
172. What is the Brake cylinder pressure release time from 3.8 Kg/cm² to 0.4 Kg/cm² with single car test rig as per IRCA Part IV? 15 to 20 seconds.
173. What is the drop in brake pipe pressure during sensitivity test with SCTR?
0.6 Kg/cm² in 6 Seconds
174. Colour of vacuum brake BPC of goods train? Pink
175. Colour of Brake power certificate of Air brake Goods train (End to End)? Green
176. Minimum percentage of effective brake cylinders on an intensively examined Air brake goods train? 90%
177. Brake power percentage of Air braked CC rake at originating station? 100%
178. Minimum BP pressure required in brake van of 58 BOXN wagons? 4.7 Kg/cm²
179. Permissible leakage rate of air pressure in goods train as per G-97? 0.25 kg/cm²/minute.
180. Condemning limit of composite brake block in goods train? 10mm
181. Piston stroke of a loaded BCN wagon? 130mm
182. Pull required to operate alarm chain apparatus? 7 to 10 Kg.
183. Condemning thickness of Composite brake blocks of a coach? 12mm

184. Maximum permissible clearance between pin and bush during renewal on Express train? 0.75mm
185. What is the dimension 'A' OF slack adjuster for coaches with 16.25 ton bogies? 22mm
186. Slack adjuster "e" dimension of ICF coach? 375mm +/-25mm
187. Longitudinal movement of bolster in ICF bogie is controlled by? Anchor link
188. Angle to which split pins and cotters to be split? 45degrees
189. Periodicity of POH of OCVs on mail & express trains? 18months
190. Newly built ICF coach running on mail/express trains first IOH is done after months? 12months
191. What is the permissible longitudinal clearance between side frame and adapter on 22NLB CASNUB bogies? 12 to 18mm
192. Condemning height of EM pad? 42mm
193. Condemning height of CC pad? 109mm
194. How the center pivot of CASNUB bogies is lubricated as per revised wagon manual?
- Graphite flakes to IS-495**
195. Minimum air pressure in the under slung water tank of AC coach? 0.35Kg/Cm²
196. The clearance between wheel and brake block increases automatically in Bogie mounted brake cylinder? No
197. Wear on brake block does not disturb 'A' dimension of slack adjuster? True
198. If a goods train is stabled for more than 24 hours the BPC becomes invalid.
199. Beyond which temperature is the axle box considered hot box? 80degrees C
200. In an open line coaching depot for what defects do you look for when the bearing is opened for schedule? Bearing should not be opened in open line depots for scheduled
201. What is the full form of CORTON steel? Corrosion Resistant steel
202. Under whom does NTXR work? IRCA
203. Where is Rail Spring Karkhana located? Gwalior
204. What does an Air Flow indicator do? Indicates leakages of air pressure
205. What types of brakes are there in LHB coaches? Axle mounted disc brakes
206. Decode COFMOW? Central Organization For Modernization Of Workshops
207. Decode LHB? LINKE HOFFMAN BOSCH
208. To procure non-stock item of value more than Rs.10,000/- S-1302-A form to be prepared?
209. What is the wheel base of an ICF bogie? 2896mm
210. What is the maintenance time required for maintaining 24 coach train? 6hours
211. What is the minimum buffer height permitted on loaded coaching stock? 1030mm
212. What is the release time of a DV permitted on coaching stock? 15 to 20sec
213. What is the droppage of BP pressure for full service brake application on coaching train?
1.0 to 1.5 Kg./Cm²
214. When oil oozing noticed in between wheel seat and axle it is called loose axle
215. When pull rod is grazing on axle forms the Notched axle.
216. The distance between adjuster tube and the mark on the spindle towards its end is called 'SAB' 'E' dimension.
217. GDR Check valid for 400Kms.
218. If driver fails to log Kilometers, BPC of CC rake expires on 21st day from the date of issue.
219. Buffer height max and min dimensions for wagons in empty condition is 1105mm and 1090mm
220. Permitted Flat faces on ICF wheels is 50mm
221. Maximum wheel diameter of BLC Wagon 840mm
222. What is the maximum BC pressure in empty condition for BLC wagon 2.2Kg/cm²
223. The torque valve for end locking studs is 8 to 9 Kg-M for 6mm bolts and 15 to 16 Kg-M for 20mm bolts.
224. ----- Nominal thickness of buffer casing body wall is
-- 11.5mm
225. ----- What is the wear limit of buffer casing body wall
-- 5.5mm
226. ----- What is the weakest link of the 'H' ty

- petightlockcenterbuffercoupler----- **Knuckle**
- 227.----- Destruction tube is provideinside the **Buffer**
- 228.-----Capacity of air reservoir(AR) of the coach is **200litter**
229. In the passenger train, the diameter of brake pipe & feedpipe is ----- **25mm**
230. In the passenger train, the diameter of branch pipe ----- **20mm**
- 231.-----What is the diameter of branch in between PEAV to PEASD ----- **10mm**
232. During full service application, brake pipe pressure is dropped to ----- **1.5kg/cm²**
233. At originating station the brake power percentage for mail/express train should be ----- **100%**
- 234.----- Cut off angle cock can be fitted to **BP & FP both**
- 235.-----What is the diameter of bogie mounted brake cylinder (BMBC) ----- **203mm**
- 236.-----What is the diameter of brake cylinder (WAGON) ----- **355mm**
- 237.-----What is the diameter of brake cylinder (LHB) **255mm**

FULL FORM

- (1). PCV- Passenger coach vehicles
- (2). OCV- Other than coach vehicles
- (3). DV--- Distributor Valve.
- (4). CRSE-- Chief Rolling Stock Engineer.
- (5). EOG- End of Generation.
- (6). CBC Center Buffer Coupling.
- (7). RTR- Rake Test Rig.
- (8). SCTR- Single Car Test Rig.
- (9). BC- Brake Cylinder.
- (10). CCR- Close Circuit Rake.
- (11). ELB- Empty Load Box
- (12). LSD- Load sensing device (wagon)
- (13). WWP- Worn Wheel Profile.
- (14). DDR- Daily damage report.
- (15). PEASD- Passenger Emergency Alarm Signal device.
- (16). LHB- Linke Hofmann Busch / Linke Hoffman Bousch.
- (17). WGACCW-
- (18). BPC- Brake Power Certificate.
- (19). RITES- Rail Infra technical and Economic Services pvt. Ltd.
- (20). PEAV- Passenger Emergency Alarm Valve.
- (21). CDTs- Control Discharge Toilet System.
- (22). CRS- Commissioner of Railway Safety.
- (23). CRB- Chairman of Railway Board / (24). MCDO- UIC-
- PLC- Programmable Logic Controller.
- (27). WSP- Wheel Sliding Protection.

- (28).WACCN-
- (29).RDSO- Research,Design and Standard Organization.
- (30).IRCA Indian Railway ConferenceAssociation.
- (31).SG-
- (32).BTPN-
- (33).AIDS-
- (34).AREM-
- (35).PCME- Principal Chief Mechanical Engineer.
- (36).DRM- Divisional RailwayManager.
- (37).PCPO- Principal Chief Personnel Officer.
- (38).WLRRM-
- (39).WRA- Water Raising Apparatus.
- (40).DCW- Diesel Component Factory.
- (41).ERR- Four/Six wheeler.
- (42).ICF-Integral Coach Factory (Perambur).
- (43).RCF- Rail Coach Factory (Kapurthala).
- (44).MCF- Modern Rail coach Factory (Raibareilly).
- (45).RWF- Rail Wheel Factory (Bangalore).
- (46).PLB- Productivity Linked Bonus.

- (47).KRC- Konkon Railway Corporation
- (48).PREM- Participation of Railway Employee in Management.
- (49).JCM- Joint Consultative Machinery.
- (50).PNM- Permanent Negotiating Machinery.
- (51).CWE- Chief Workshop Engineer.
- (52).PCPO- Principal Chief Personal Officer.
- (53).RSC- Railway Staff College.
- (54).RRB- Railway Recruitment Board.
- (55).RSP- Rolling Stock Programme.
- (56).CL- Casual Leave.
- (57).SL- Study Leave.
- (58).LAP- Leave on Average Pay.
- (59).LHAP- Leave on Half Average Pay.
- (60).CCL- Child Care Leave.
- (61).LND- Leave Not Due.
- (62).SAB- Slack Adjuster Barrel.
- (63).SWTR-Singlr Wagon Test Rig
- (64).IRSE- Indian Railway Service of Engineers.
- (65).IRSME- Indian Railway Service of Mechanical Engineers.
- (66).IRSSE- Indian Railway Service of Signal & Telecom Engineers.
- (67).IRSEE- Indian Railway Service of Electrical Engineers.
- (68).IRSS- Indian Railway Stores Service.
- (69).IRTS- Indian Railway Traffic Service.
- (70).IRAS- Indian Railway Accounts Service.
- (71).IRPS- Indian Railway Personnel Service.
- (72).IRMS- Indian Railway Medical Service.
- (73).GTKM- Gross Tone Kilometer.
- (74).CAMTECH- Centre for Advanced Maintenance technology.
- (75).RITES- Rail India Technical & Economic Service Ltd.
- (76).PRS- Passenger Reservation System.
- (77).AMBDS- Axle mounted Disc Brake System
- (78).UFMBC- Unde Frame Mounted Brake cylinder.
- (79).UFMBS- Under Frame Mounted Brake System.
- (80).GEAV-
- (81).RAAC-
- (82).RA- Inspection Carriage (Administrative).
- (83).RHY- Auxiliary Medical Van.
- (84).NMG- New Modified Goods.
- (85).ART- Auxiliary Relief Train.
- (87).PTMT-Poly Tera Methyl Ethylene.
- (88).IRCTC-Indian Railway Catering & Tourism Corporation.
- (89).CDC-Centrifugal Dirt Collector.
- (90).DRV-Double Release Valve.
- (91).QRV- Quick Release Valve.
- (92).PTO-Privilege Ticket Order.

- (93).NRV-Not Return Valve.
 (94).WPP-Wall Protecting Pas.
 (95).CBB-Composite Brake Block.
 (96).NMG-New Modified Goods.
 (97).MEMU-Mainline Electric Multiple Unit.
 (98).DAV-Direct Admission Valve.
 (99).WAP-Wheel and Axle Plant.
 (100).BLC-
 (100).ISO-
 (101).IRCON-
 (102).IRFC-
 ART- Accident ReliefTrain
 AAR - Association of American railroad
 ACD - Anti collisiondevice
 ADD - Auto driving device
 AITUC - All India trade unions congress
 BOLT - Built operate leasetransfer
 BOOT - Built operate own transfer
 BOT - Built operatetransfer
 BIS - Bureau of Indian standards CTRB
 - Catridge Tapered RollerBearing
 COFMOW - Central Organization for Modernization of workshops
 CONCERT - Countrywide Online Networking computer enhanced Reservation and Ticking
 CRIS - Centre for Railway Information System
 CCRS - Chief Commissioner of Railway Safety
 CRS - Commissioner of RailwaySafety
 CWR - Continuous Welded Rail CONCOR -
 Container Corporation of IndiaLtd.
 COIS - Coaching Operations Information System COEA
 - Cabinet committee on Economic affairs CORE
 - Central organization of Railway electrification
 CPM - Critical Pathmethod
 CRA - Central record keepingagency
 C-TRAM - Centre for Transportation Research andManagement.
 CMS - Crew Management System or Chief Medical Superintendent C-
 TARA - Centralised Training Academy for Railway Accounts DMRC
 - Delhi Metro Railway Corporation
 DHRC - Darjeeling Himalayan Railway Society
 DRF - Depreciation Reservefunds
 DF - Developmentfund
 EOL - Engine onLoad
 EBD - Emergency Brakingdistance
 FOIS - Freight operated Information system
 FWP - Final worksprogram
 PWP - Preliminary works program
 LSWP - Lump sum works program
 GSM-R - Global system mobile - Relays
 GPS - Global positioningsystem.
 GTR - Gross TrafficReceipt
 HIOER - Hours of Employmentregulation
 HRD - Hydraulic Rescue Device/ Human Resource Development
 HDPE - High Densile PolyEthylene
 IBRD - International Bank for Reconstruction and Development
 IRCTC - Indian Railway Catering & TourismCorporation
 IVRS - Interactive Voice Response System CAMTECH
 - Centre for Advanced Maintenance Technology

ICF	-Integral CoachFactory
ICBM	- Inter continental ballistic missiles.
IRT	- Institute of RailTransport
IRCA	- Indian Railway Conference Association IRWO
	- Indian Railway welfare organisation IRWWO
	- Indian Railway Women welfare organization
ITES	- Integrated Train EnquirySystem
IRFC	- Indian Railway Finance corporation
IRICEN	- Indian Railway Institute of CivilEngineering
IRISET	- Indian Railway Institute of Signal Engineering and Telecommunication
ISKCON	- International society for krishnaConscious
IRIMEE	- Indian Railway Institute of Mechanical and Electrical Engineering
IRIEE	- Indian Railway Institute of ElectricalEngineering
IRMP	- Integrated Railway Modernisation Plan
ISMD	- Infringing standard moving dimensions.
MMD	- Maximum MovingDimensions.
JCM	- Joint Consultative Machinery
KRCL	- Konkan Railway Corporation Ltd.
LWR	- Long weldrail
LLE	- Life lineexpress
LSD	- Load sensingdecvice
LAW	- List of approved works
LVCD	- Last vehicle checkdevice
MEMU	- Main line electrical multiple unit
MTRC	- Mobile train radio communication
MRVC	- Mumbai Rail vikas corporation
MMTS	- Multi modal Transport system
MRTS	- Mass rapid transport system MMU
	- Mobile maintenanceunits
MHALFC	- Multimodal high axle load freight corridor
NTES	- National Train enquirysystem
NRVY	- National Rail vikasyojana
NASDAQ	- National association for stock dealer and quotes
OYWS	- Own your wagonscheme
PSLV	- Polar satellite launchingvehicle
PERT	- Programme evaluation review technique
POET	- Passenger operated enquiry terminal
PQRS	- Placer quick relayingsystem
PRCL	- Pipavan Railway corporation Ltd.
RADAR	- Radio detection and ranging RCRV
	- Rail cum roadvehicle
RAILS	- Railway analysis and interactive line simulator
RRB	- Railway RecruitmentBoard
RRC	- Railway reforms committee
RLDA	- Rail land developmentauthority

RRT	- Railway rate tribunal
RSRC	- Railway safety review committee
RFEC	- Railway freight and fare committee
SRSF	- Special railway safety fund
SSI	- Solid state interlocking
SWR	- Short welded rail
SPTM	- Self printing ticketing machine SPAD
	- Signal passed at Danger
SPART	- Self propelled Accident Relief Train
SAARC	- South Asian Association for Regional Co-operation
SIEGRM	- Single window integrated grievances Redressal machinery
SEJ	- Switch expansion joint.
TOT	- Transfer of Technology
TPWS	- Train protection and warning system
TAWD	- Train activated warning device
USFD	- Ultrasonic flaw detector
TTM	- Track tamping machine
UTS	- Un reserved ticketing system
UHDWPE	- Ultra high density molecular weight poly ethylene
WIS	- Wagon investment scheme
WILD	- Wheel impact load detector
BLC	- Bogie low height container flat wagon.
BWL	- Bogie well wagon
CLW	- Chittaranjan locomotive works.
CPB	- Common pipe bracket
CRB	- Chairman Railway board
D&AR	- Discipline and appeal Rules.
DLW	- Diesel locomotive works
DMRC	- Delhi metro rail corporation Ltd.
DCW	- Diesel component works
HSD	- High speed diesel.
IRCON	- Indian railway construction corporation Ltd.
LHB	- Link Halfman Bosh
ODC	- Over dimensional consignment.
RCF	- Rail coach factory.
ITES	- Rail India technical and economy services Ltd.
RSC	- Railway staff college.
RWF	- Rail wheel Factory.
WWP	- Worn wheel profile

Bio-Toilet

- 1. What is the name of ----- Bacteria used in Bio-toilet? / **Anaerobic Bacteria**
- 2. much quantity of inoculum is charged initially in the Bio-Toilet tank? / **120 Lts Inoculum**
- 3 ----- is the doubling period for bacterial population ? / **6 to 8 Hrs**
- 4. is the total volume of Bio-Toilet tank ? / **400 Lts**
- 5. is the effective volume of Bio-Toilet tank? / **300 Lts**
- 6. type of Bio-Toilet tank used in Chg Stock / **P Trap & S Trap**
- 7. ----- type safety bracket used in Bio-Toilet tank / **J type bracket**
- 8. is the weight & cost of Chlorine tablet? / **100 gm.**
- 9. is the safe space available between two tanks to pass fitters? / **Approx. 600 mm.**
- 10. ----- can be kept in ambient temperature / **2-3 months**
- 11. Can withstand temperature. / sub-zero (-20°C) as well as up to 60°C
- 12. thickness of the body sheet for Bio-digester tank ? / **3 mm S.S. Sheet.**
- 13. ----- is the identification of Bio-Toilet Coach? / **Green band on exterior below toilet glass**
- 14. is the weight of empty Bio-Toilet Tank? / **Approx. 115 Kg.**
- 15. is the frequency for doing sample testing of effluent? / **90 Days**

True / False

- 1. Anaerobic Bacteria requires oxygen to life / **False**
- 2. Chlorine tablet / kmn04 is used to produce Bacteria / **False**
- 3. Bio – Tank is made up of Mild Steel / **False**
- 4. High Ph factor indicates the proper functioning of Bio-Toilet tank / **False**
- 5. All coaches are turned out from PU Fitted with Bacteria / **True**
- 6. Anaerobic Bacteria is not harmful to human beings / **False**
- 7. The effluent of Bio-Toilet tank is colorless and odorless / **False**
-

1. What is Bio-Toilet?

Ans. A toilet in which biological degradation of human waste by inoculums takes place

2. What is to be done in POH?

Ans. Bio-Digester should be dismounted, checked & cleaned and refitted.

3. What are the Benefits of Green Toilet

Ans. a) Environment friendly b) Preventing damages to tracks due to Corrosion
c) Improved Aesthetics at Railway Stations

4. How many Bio-Toilet labs are available on Indian Railways?

Ans. a) At coaching depot Sarai Rohilla, N.Rly. b) At coaching depot Gwalior, NC Rly. c) At coaching depot Secunderabad, SC Rly.

5. How choking & Jump of P-Trap is removed?

Ans. a) With the help of Choke Remover device. B) Steel rod which bends the face
c) available water

Q.17 How many tests to be carried out on Inoculum?

Ans. pH value test, Bio-Gas production, Methane % test & MPN count.

Q.18 Why is chlorinator provided?

Ans. Chlorinator is provided to disinfect the discharged water which reduces the E- coli form present in effluent.

Q.19 What is the weight and cost of KMnO₄ tablet?

Ans. 80 gms & cost approx-Rs. 42. Still under optimization phase

Q.20 What is the weight & cost of Chlorine tablet?

Ans. 100g; Approx Rs 130/-

Q.21 What is the safe space available between two tanks to pass fitters?

Ans. Approx. 600 mm.

Q.22 What is the thickness of the body sheet for Bio-digester tank?

Ans. 3 mm S.S. Sheet.

Q.23 Thickness of sheet in inside partition is?

Ans. 2 mm S.S. Sheet.

Q.24 What is the weight of empty Bio-Toilet Tank?

Ans. Approx. 115 Kg.

Q.25 Flow of human waste from 1st and last chamber is passed through?

Ans. 62.5 mm riser pipe only.

Q.26 What is the size of ICF coach Bio-digester?

Ans. 540 mm x 1150 mm x 720 mm with 4 mounting brackets & 2 Nos. M16 bolts on each bracket.

Q.27 Weight & cost of Chlorine tablet?

Ans. 100g; Approx Rs 130/-

Q.28 What is the safe space available between two tanks to pass fitters?

Ans. Approx. 600 mm.

Q.29 What is the thickness of the body sheet for Bio-digester tank?

Ans. 3 mm S.S. Sheet.

Q.30 Thickness of sheet in inside partition is?

Ans. 2 mm S.S. Sheet.

Q.31 What is the weight of empty Bio-Toilet Tank?

Ans. Approx. 115 Kg.

Q.32 Flow of human waste from 1st and last chamber is passed through?

Ans. 62.5 mm riser pipe only.

Q.33 What is the size of ICF coachBio-digester?

Ans. 540 mm x 1150 mm x720 mm with 4 mounting brackets & 2 Nos. M16 bolts on each bracket.

Q.34 the weight & cost of Chlorinetablet?

Ans. 100g; Approx Rs 130/-

Q.35 What is the safe space available between two tanks to passfitters?

Ans. Approx. 600 mm.

Q.36 What is the thickness of the body sheet for Bio-digester tank?

Ans. 3 mm S.S. Sheet.

Q.37 Thickness of sheet in inside partitionis?

Ans. 2 mm S.S. Sheet.

Q.38 What is the weight of empty Bio-ToiletTank?

Ans. Approx. 115 Kg.

Q.39 Flow of human waste from Ist and last chamber is passedthrough?

Ans. 62.5 mm riser pipeonly.

Q.40 What is the size of ICF coachBio-digester?

Ans. 540 mm x 1150 mm x720 mm with 4 mounting brackets & 2 Nos. M16 bolts on each bracket.

Q.41 is the weight & cost of Chlorinetablet?

Ans. 100g; Approx Rs 130/-

Q.42 What is the safe space available between two tanks to passfitters?

Ans. Approx. 600 mm.

Q.43 What is the thickness of the body sheet for Bio-digester tank?

Ans. 3 mm S.S. Sheet.

Q.44 Thickness of sheet in inside partitionis?

Ans. 2 mm S.S. Sheet.

Q.45 What is the weight of empty Bio-ToiletTank?

Ans. Approx. 115 Kg.

Q.46 Flow of human waste from Ist and last chamber is passedthrough?

Ans. 62.5 mm riser pipeonly.

Q.47 What is the size of ICF coachBio-digester?

Ans. 540 mm x 1150 mm x720 mm with 4 mounting brackets & 2 Nos. M16 bolts on each bracket.

Q.48 What is the weight & cost of Chlorine tablet?

Ans. 100g; Approx Rs 130/-

Q.49 What is the safe space available between two tanks to pass fitters?

Ans. Approx. 600 mm.

Q.50 What is the thickness of the body sheet for Bio-digester tank?

Ans. 3 mm S.S. Sheet.

Q.51 Thickness of sheet in inside partition is?

Ans. 2 mm S.S. Sheet.

Q.52 What is the weight of empty Bio-Toilet Tank?

Ans. Approx. 115 Kg.

Q.53 Flow of human waste from 1st and last chamber is passed through?

Ans. 62.5 mm riser pipe only.

Q.54 What is the size of ICF coach Bio-digester?

Ans. 540 mm x 1150 mm x 720 mm with 4 mounting brackets & 2 Nos. M16 bolts on each bracket.

True/False

- ↑ .Standard thickness of UIC/CASNUB bogies composite brake block is- 58 mm
(T/F) 2. Permissible thickness of UIC/CASNUB bogies composite brake block is -20 mm(T/F) 3. How many types of CASNUB version in Indian Railway have been used?
10(T/F)
4. The length of brake block of BOXN wagon is – Not specified(T/F)
5. What is the Std. thickness of brake block of BOXN wagon is – 58 mm
(T/F) 6. What is the axle load of CASNUB trolley expects CASNUB 22HS?
22.9 ton(T/F) 7. What type of side bearers fitted in CASNUB 22w bogie?
Roller type (T/F 8. What type of side bearers fitted in CASNUB 22w(m) bogie?
CC type (T/F) 9. What type of pivot used in CASNUB 22w trolley? **IRS**
type(T/F)
10. What type of pivot used in CASNUB 22w(m), 22NL and other type
of CASNUB trolley? **UIC spherical type**(T/F)
11. What is the wear limit of axle box/adopter sides (Cylindrical roller bearing) in CASNUB bogie? 3mm(T/F)
12. What is the nominal lateral clearance between side frame & bolster in
CASNUB 22W, 22WM, 22NL, 22NLB? **18 mm**(T/F)
13. What is the nominal lateral clearance between side frame & axle box/adopter Casnub
22NL, 22NLB, 22HS bogie? **16mm**(T/F)
14. What is the standard wheel profile use in CASNUB bogie after the routeradius? (a) **1 in 20** (T/F)
15. What is the condemning wheel diameter in all CASNUB versions? **906 mm**(T/F)
16. 22.9 Tone is the axle load capacity of BOXN-R wagon.(T/F)
17. BOXN-R wagon body is made of stainless steel (IRSM-
44). (T/F) 18. Floor sheet thickness OF BOXN-R wagon is 3.5
mm.(T/F)
19. Side panel thickness of BOXN-R wagon is 2.0mm. (T/F)
20. 12mm and 27 mm packing is used in Casnub bogie. (T/F)
21. Axle load of BOXN HA wagon is 22.9 Ton. (T/F)
22. Codal Life BOXN is 30 year. (T/F)
23. Axle load of BOXN HS wagon is 22.9 Ton. (T/F)
24. POH of BVZI is done at the interval of 09 months
(T/F) 25. Wear in Knuckle of CBC is a 'S' mark rejection. (T/F)

FREIGHT STOCK

1. The standard wheel gauge of Goods wagon is-1600 mm(T/F)
2. Permissible variation in new wheel tread diameter for four-wheeled trolley on the same axle on BG bogie wagon is -0.5 mm(T/F)
3. Permissible variation in wheel tread diameter for four-wheeled trolley on the same trolley on BG bogie wagon while changing the wheel is -13mm(T/F)
4. Permissible variation in wheel tread diameter for four-wheeled trolley on the same trolley on BG bogie wagon while changing the wheel is -13mm(T/F)
6. Permissible variation in wheel tread diameter for four-wheeled trolley on the same wagon on BG bogie wagon while changing the wheel is -25mm(T/F)
7. Permissible variation in wheel tread diameter for four-wheeled unit on the same wagon on BG bogie wagon while changing the wheel is -25 mm(T/F)
8. The composite Brake block in yard for air Bk. train should be changed when thickness is - 25 mm(T/F)
9. What is the length over Headstock of the BOXN wagon? 9784 mm mm (T/F)
10. Tare weight of the BOXN wagon is -23.2 tons(T/F)
11. Tare weight of the BRN wagon is -24.4 tons(T/F)
12. What is the length over couplers of the BOXN wagon? 10713 mm (T/F)
13. What is the length over couplers of the BCN wagon? 15429 mm(T/F)
14. Gross load of the BOXN wagon is -81.28t(T/F)
15. Gross load of the BRN wagon is -81.3t(T/F)
16. What is the wheel diameter on tread of the brake van goods (BVG)? 1090 mm(T/F)
17. Overall height of BOBR wagon from rail level is -3735mm(T/F)
18. In what type of depot, the ROH of air brake wagon should not be carried out - 'A' category(T/F)
19. What is the diameter of side operated hand brake wheel for BOXN wagon is -610 mm(T/F)
20. Tare weight of the BCN wagon is -27.20 tons(T/F)
21. Newly built BOXN wagon first POH periodicity is - 6.0 year (T/F)
22. The BOX bogie is designed for an axle load of - 20.30 t (T/F)
23. Which type of composite brake block is used in freight stock of under frame mounted brake system? K' type (T/F)
24. C- class ODC shall be moved during - Day light (T/F)