MULTIPLE CHOICE QUESTIONS

1. The standard wheel gauge of passenger BG coaching stock is –
   (a) 1602 mm (b) 1601 mm (c) **1600 mm** (d) 1598 mm
2. Length over body of ICF BG coaches is –
   (a) 2334 mm (b) 2310 mm **(c) 21337 mm** (d) 22132 mm
3. Rigid wheelbase of ICF BG trolley is –
   (a) 2896 mm (b) 2803 mm (c) 2990 mm (d) 2837 mm
4. At what interval, the intensive cleaning of any coach is done?
   (a) Three month **(b) One month** (c) Six month (d) Eight month
5. What is the interval for cleaning coach water tank?
   (a) 15 days (b) 25 days **(c) one month** (d) two month
6. 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
7. 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
8. 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
9. The other name of pilot valve is –
   (a) PESAD **(b) PEASD** (c) PDEAS (d) EPASD
10. What is the period for POH of departmental coach?
    (a) 24 month (b) 36 month (c) 42 month (d) 60 month
11. What is the Transportation code of inspection carriage (Administrative)?
    (a) AR (b) CR (c) IC (d) **RA**
12. As per policy circular No-4 secondary examination of mail/express has been skipped on round trip upto-
    (a) 800 Km (b) 1500 Km **(c) 2500 Km** (d) 1800 Km
13. In coach, the load transmission takes place through -
    (a) Center pivot (b) Bogie (c) **Side bearer** (d) Wheel
14. The 'L' type composite brake block should be changed, if worn out beyond-
    (a) 10 mm (b) 15 mm (c) 20 mm (d) 22 mm
15. The 'K' type composite brake block should be changed, if worn out beyond-
    (a) 10 mm **(b) 12 mm** (c) 20 mm (d) 22 mm
16. Std. packing pieces of ICF coach is –
    (a) 13,14,26 mm (b) 13,22,28 mm (c) **13,26,38,48 mm** (d) 22,26,32 mm
17. Coaching stock accident involving human life enquiry by-
    (a) CME (b) **CRS** (c) Sr.DME (d) ADRM
18. Yellow strips on end body of ICF indicate is –

(a) **Antitclescopic** (b) Dual brake (c) In built air brake (d) Non-Antitelescopic

19 For finding what defect UST is done?

(a) **Internal crack** (b) external crack (c) Air flow crack (d) None of the above

20 What is Codal life of steel bodied coaches (Including dining / pantry cars) -

(a) 40 years (b) 30 years (c) **25 years** (d) 22 years

21 Caudal life of light utilization categories of coaches is -

(a) **40 years** (b) 30 years (c) 25 years (d) 20 years

22 All newly built coaches shall be given IOH after -

(a) One month (b) six month **(c) one year** (d) two year

23 The length over buffer of ICF/ RCF coach is -

(a) 22297 mm (b) 22299 mm (c) 21996 mm (d) 21030 mm

24 Over all width of ICF/ RCF coach is -

(a) 3251 mm (b) 3250 mm **(c) 3245 mm** (d) 3991 mm

25 The height from rail level of ICF/ RCF coach is -

(a) 3886 mm **(b) 4025 mm** (c) 3991mm (d) 3251 mm

26 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 20 year

27 How many emergency windows provided in AC ICF/RCF coaches are –

(a) Two (b) Three **(c) Four** (d) Five

28 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

29 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

30 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

31 What is the purpose of manipulator?

(a) For testing roller bearing (b) For **down hand welding**

(c) For ROH (d) For brake ringing Adjustment

32 What do you mean by FRP?

(a) Fibre recalling panel **(b) Fibre reinforced plastic**

(c) First reduction plastic (d) Fine reinforced panel

33 At what interval, the IOH of shatabdi coaches is?

(a) 12 months at work shop

(b) 9 months at work shop

(c) 9 months at PM depot

(d) None of the above

34 What is the periodicity for IOH of ICF coaches?

(a) 9 months

(b) 12 months

(c) 6 months

(d) None of the above

35 Where has been distraction tube provided in ICF/RCF coaches?

(a) Between main head stock and auxiliary head stock

(b) Outer main head stock

(c) With auxiliary head stock

(d) None of the above

36 The maximum standard buffer height above rail level to center of buffer is –

(a) 1085 mm (b) 1100 mm **(c) 1105 mm** (d) 1030 mm

37 The minimum permissible buffer height above rail level to center of buffer is –

(a) 1105 mm (b) 1145 mm (c) 1115 mm **(d) 1030 mm**

38 Standard buffer projection from Headstock is –

(a) 650 mm **(b) 635 mm** (c) 620 mm (d) 660 mm

39 Minimum Permissible buffer projection from Headstock is –

(a) 635 mm (b) 605 mm (c) 590 mm **(d) 584 mm**

40 The diameter of buffer plunger face of ICF coaches is –

(a) 552 mm **(b) 457 mm** (c) 493 mm (d) 510 mm

41 DV handle working position is

(a) horizontal (b) Vertical (c) Inclined (d) None of the above.

42 What is the distance between two buffers at one end?

(a) 1952 mm (b) 1976 mm **(c) 1956 mm** (d) 1992 mm

43 What is the maximum buffer plunger stroke in mm?

(a) 127.0 mm (b) 129.0 mm (c) 131.0 mm (d) 133.0 mm

44 How the weight of the body is transferred on trolley in ICF coach?

(a) Journal (b) Wheel **(c) Side bearer** (d) Dashpot

45 The ICF buffer plunger is made of –

(a) Mild steel (b) Cost iron **(c) Cast steel** (d) Aluminum Alloy

46 In loaded condition, the minimum permissible height of buffer in ICF coach is –

(a) 1090 mm (b) 1105 mm **(c) 1030 mm** (d) None of the above

47 The draw & buffing force transmission in coach is through -

(a) Centre pivot (b) Bogie (c) Side bearer (d) Wheel

48 Hauling capacity of H type CBC is -

(a) 7000 ton (b) 8000 ton (c) **9000 ton** (d) 10000 ton

49 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) 10.0 mm (b) 12.0 mm **(c) 13.0 mm** (d) 20.0 mm

50 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) 12.0 mm (b) 16.0 mm (c) 20.0 mm **(d) 26.0 mm**

51 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) 16.0 mm (b) 20.0 mm **(c) 38.0 mm** (d) 46.0 mm

52 Thickness of hard packing ring used for 819mm diameter of two wheel sets of bogie in adjustment of buffer height is -

(a) 20.0 mm (b) 38.0 mm (c) 46.0 mm **(d) 48.0 mm**

53 Nominal thickness of buffer casing body wall is –

(a) 9.50 mm (b) 10.50 mm **(c) 11.50 mm** (d) 13.50 mm

54 What is wear limit of buffer casing body wall?

(a) 2.50 mm (b) 3.50 mm (c) 4.50 mm **(d) 5.50 mm**

55 What is the weakest link of the 'H' type tight lock center buffer coupler?

(a) Draft gear **(b) Knuckle** (c) Lock (d) Yoke pin

56 Destruction tube is provided inside the –

(a) Buffer (c) Head stock (c) under sole bar (d) None

AIR BRAKE

57 Capacity of air reservoir (AR) of the coach is –

(a) 150 Lit. **(b) 200 Lit** (c) 250 Lit. (d) 300 Lit.

58 '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

59 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**

60 In a passenger train 'e' dimension is –

(a) 378± 20 mm **(b) 375±25 mm** (c) 370±10 mm (d) 380±20 mm

61 In the passenger train, the diameter of brake pipe & feed pipe is –

(a) 20.0 mm **(b) 25.0 mm** (c) 28.0 mm (d) 30.0 mm

62 In the passenger train, the diameter of branch pipe is –

(a) 15.0 mm (b) 18.0 mm **(c) 20.0 mm** (d) 22.0 mm

63 What is the diameter of branch pipe in between PEAV to PEASD?

(a) 10.0 mm (b) 25.0 mm (c) 30.0 mm (d) 20.0 mm

64 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**

65 At originating station the brake power percentage for mail/express train should be –

(a) 85% (b) 90% **(c) 100%** (d) 75%

66 Cut off angle cock can be fitted to-

(a) FP (b) BP (c) **BP&FP both** (d) None of the above

67 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

68 What is the diameter of bogie mounted brake cylinder?

(a) 220 mm (b) 210 mm (c) **203 mm** (d) 200 mm

69 The brake cylinder diameter of conventional air brake system is –

(a) 205 mm (b**) 355 mm** (c) 325 mm (d) 305 mm

70 The rate of air leakage in single car testing should not be more then –

(a) 0.02 Kg/cm^2/min (b) 1.0 Kg/cm^2 /min **(c) 0.2** Kg/cm^2 /min (d) 0.1 Kg/cm^2 /min

71 In emergency application the brake cylinder pressure rises from 0-3.6 kg/cm^2 in –

(a) 15-20 sec (b) 5-10 sec (c) **3-5 sec** (d) 8-10 sec

72 Check valve with choke allows air from –

(a) BP to FP (b) FP to CR (c) **FP to AR** (d) AR to BC

73 When brake is manually released by QRV, which pressure will be vent out?

(a) BC pressure (b) AR pressure (c) BP pressure (d) **CR pressure**

74 What is the pressure of control reservoir in coaching trains?

(a) 6.0 Kg/cm^2 **(b) 5.0 Kg/cm^2** (c) 6.0 to .2 Kg/cm^2 (d) 4.8 Kg/cm^2

75 In coaching trains, auxiliary reservoir is charged to -

(a) 5.0 Kg/cm^2 (b**) 6.0** Kg/cm^2 (c) 4.8 Kg/cm^2 (d) 5.5 Kg/cm^2

76 Reduction in BP pressure for minimum application is -

(a) 1.0 to1.5 Kg/cm^2 (b) 0.8 to 1.0 Kg/cm^2 **(c) 0.5 to 0.8** Kg/cm^2 (d) 0.1 to 05 Kg/cm^2

77 Reduction in BP pressure for service application is -

(a) 1.0 to 05 Kg/cm^2 (b) 1.0 to 1.5 Kg/cm^2 (c) 0.5 to 0.8 Kg/cm^2 **(d) 0.8 to 1.0** Kg/cm^2

78 Reduction in BP pressure for full service application is -

(a) 1.0 to 1.5 Kg/cm^2 (b) 0.8 to 1.0 Kg/cm^2 (c) 0.5 to 0.8 Kg/cm^2 (d) 0.1 to 05 Kg/cm^2

79 Reduction in BP pressure for emergency application is -

(a) 1.0 to 1.5 Kg/cm^2 **(b) 1.5 to 3.8** Kg/cm^2 (c) 0.5 to 0.8 Kg/cm^2 (d) 3.8 to 5..0 Kg/cm^2

80 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

81 What is the choke diameter of guard's emergency brake valve?

(a) 4.0 mm (b) 5.0 mm (c) 6.0 mm **(d) 8.0 mm**

82 What type of slack adjuster is used in passenger coaches?

(a) DRV-600 (b) None **(c) IRSA-450** (d) IRSA- 600

83 For testing C3W DV, the AR charging time from 0 to 4.8 kg/cm2 is –

(a) 170 ± 10 sec **(b) 175 ± 30 sec** (c) 280 ± 30 sec (d) 210 ± 20 sec

84 For testing KE type DV, the AR charging time from 0 to 4.8 kg/cm2 is-

(a) 160 to 210 sec (b) 210 to 260 sec (c) 260 to 280 sec (d) 180 to 200 sec

85 For testing C3W DV, the CR charging time from 0 to 4.8 kg/cm2 is –

(a) 170 ± 10 sec **(b) 165 ± 20 sec** (c) 160 ± 10 sec (d) 210 ± 20 sec

86 For testing KE type DV, the CR charging time from 0 to 4.8 kg/cm2 is –

(a) 170 ± 10 sec **(b) 160 ± 40 sec** (c) 160 ± 10 sec (d) 210 ± 20 sec

87 The three-branch pipe attached to common pipe bracket, where the middle pipe lead to

(a) CR (b) DV (c) BC **(d) AR**

88 During brake release, air from BC goes to

(a) AR (b) CR (c) DV **(d) Atmosphere**

89 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

90 The type of dirt collector, used in bogie mounted passenger coach is -

(a) 2- way (b) 4-way (c) 3-way (d) single way

91 When DV is working condition the position of DV handle is –

(a) Horizontal (b) Inclined **(c) Vertical** (d) Parallel

92 The en-route brake power percentages of passenger BG coaching train is –

(a) 85% (b) 90% (c) 100% **(d) Not specified**

93 What is the capacity of control reservoir of passenger coach?

(a) 6.0 litre (b) 7.0 litre (c) 9.0 litre (d) 10.0 litre

94 What should be the effective maximum pressure in brake cylinder during full service application is

(a) 3.6 ± 0.1 Kg/cm^2 (b) 3.7 ± 0.1 Kg/cm^2 **(c) 3.8 ± 0.1 K**g/cm^2 (d) 4.1 ± 0.1 Kg/cm^2

95 DV is directly mounted on -

(a) AR (b) Brake pipe (c) Brake cylinder **(d) Common pipe bracket**

96 Which one of the following valve in DV controls charging of CR?

(a) Main valve (b) **Cut off valve** **(c)** Quick service valve (d) Limiting device

97 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

98 Auxiliary reservoir is assisting in –

(a) Charging of DV (b) Charging of BP

(c) Sending air to BC (d) Charging of CR

99 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

100 In air brake system, brake should apply when the rate of drop of air pressure in BP is –

(a) 0.6 Kg/cm^2/min **in six sec** (b) 0.3 Kg/cm^2 in one sec

(c) 0.4 Kg/cm^2 in one sec (d) 0.1 Kg/cm^2 in one sec

101 In air brake system, brake should not apply when the rate of drop of air pressure in BP is –

(a) 0.3 Kg/cm^2 **in 60 sec** (b) 0.4 Kg/cm^2 in 4 sec

(c) 0.5 Kg/cm^2 in 30 sec (d) 0.8 Kg/cm^2 in 8 sec

102 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

103 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

104 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

105 What is the thickness of roof sheet in ICF coach?

(a) 2.1 mm (b) 1.9 mm (c) 1.8 mm (d**) 1.6 mm**

106 Water tank capacity of ICF coach is –

(a) 1600 litre **(b) 1800 litre** (c) 1500 litre (d) 2000 litre

107 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

108 Minimum and Maximum air pressure required for WRA is –

(a) 0.35 Kg/cm^2& 0.75 Kg/cm^2 (b) 0.45 Kg/cm^2 & 0.5 Kg/Cm^2

(c) 0.55 Kg/cm^2 & 0.6 Kg/cm^2 (d) 0.65 Kg/cm^2& 0.75 Kg/cm^2

109 Sole bar of ICF coach consists of –

(a) Z section (b) I section (c) Y section (d) U section

110 What capacity of the equalizing stays of the shatabdi Exp.?

(a) 22 tons (b) 20 tons **(c) 16 tons** (d) 14 tons

111 What is amount of the oil per side bearer in ICF coaches?

(a) 1.2 letter (b) 1.6 letter (c**) 2.5 letter** (d) 2.2 letter

112 What is the distance between side bearers of ICF coach?

(a) 1560 mm (b) 1590 mm **(c) 1600 mm** (d) 1610 mm

113 What is the oil level in dashpot?

(a) 50.0 mm (b) **40.0 mm** (c) 75.0 mm (d) 90.0 mm

114 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

115 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

116 What is the interval of check the side bearer oil?

(a) **One month** (b) 25 days (c) 15 days (d) 10 days

117 In bogie mounted air brake systems, the No of brake cylinder in a coach are

(a) 8 (b) 6 (c) 2 (**d) 4**

118 The weight of the coach is transferred through -

(a) Side bearer (b) Equalizing stay (c) Helical spring (d) Bolster

119 Center pivot pin does not transmit any -

(a) Horizontal load (b) Tractive (c) Breaking force **(d) Vertical force**

120 New dimension of side bearers wearing plate is -

(a) 10.0 mm (b) 12.0 mm (c) 14.0 mm (d) 16.0 mm

121 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

122 Condemning size of side bearer wearing plate is -

(a) 10.0 mm (b) 9.0 mm **(c) 8.50 mm** (d) 7.50 mm

123 Newly dimension of side bearer wearing pieces is -

(a) 45.0 mm (b) 44.0 mm (c) 43.0 mm (d) 42.0 mm

124 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

125 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**

126 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**

127 Which type brake system, external slack adjuster have been eliminated?

(a) BMBC (b) UMBS (c) BMBS & UMBS (d) None of the above

128 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

129 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

130 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

131 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

132 Which type of grease used in roller bearing in ICF coach?

(a) Servo –20 (b) **Lithium base** (c) Servo –40 (d) Graphite –20

133 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

134 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

135 LHB coaches are provided with what type of bearing?

(a) Spherical type (b) Plain bearing **(c) CTRB** (d) None of the above

136 In air brake coach, PEAV & PEASD is connected to branch pipe is –

(a) FP **(b) BP** (c) BC (d) DV

137 The pulling force required for alarm chain testing should not be more then -

(a) 12 kg (b**) 10 kg** (c) 20 kg (d) 30 kg

138 What is the choke size of PEAV

(a) 4.0 mm (b) 5.0 mm (c) 6.0 mm **(d) 8.0 mm**

139 What is the chock size of Guard emergency brake valve?

(a) 8.0 mm (b) 6.0 mm (c) 5.0 mm (d) 4.0 mm

140 At what schedule, the over hauling and testing of alarm chain apparatus is done

(a) 'A' schedule (b) **'B' schedules**

(c) 'C' schedule (d) Special schedule

141 The full name of PEAV is –

(a) Power energy valve (b) Passenger entrance valve

(c) **Passenger emergency alarm valve** (d) Pipe emergency valve

142 PEAV & PEASD can be isolated by-

(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 branch pipe

(d) Isolate isolating cock of BC

143 What is the free height of 16.25 tons axle box spring?

(a) 360 mm (b) 365 mm (c) **375 mm** (d) 380 mm

144 What is the free height of non-AC coach axle box spring?

(a) 355 mm (b) **360 mm** (c) 367 mm (d) 370 mm

145 Free height of all non-AC ICF type axle box spring is -

(a) 375 mm (b) 372 mm **(c) 360 mm** (d) 315 mm

146 Free height of AC ICF type bolster coil spring is -

(a) 375 mm (b) 385 mm **(c) 400 mm** (d) 416 mm

147 What is co lour code of 'A' group coil spring is

(a) Yellow (b) Green (c) oxford blue (d) White

148 What is co lour code of 'B' group coil spring is -

(a) Oxford blue (b) White (c) Green (d) Yellow

149 What is co lour code of 'C' group coil spring is -

(a) Oxford blue (b) White **(c) Green** (d) Yellow

150 Piston stroke (coach) of bogie mounted brake cylinder is –

(a) 28 mm **(b) 32 mm** (c) 36 mm (d) 38 mm

151 In BMBS hole adjustment of curved pull rod to be done when wheel diameter reaches to -

(a) 839 mm (b) 842 mm (c) 846 mm (d) None of the above

152 Permissible variations in wheel tread diameter for four-wheeled bogie on the same axle on BG is – (while turning the wheel)

(a) 0.5 mm (b) 0.49 mm (c) 0.30 mm (d) 0.45 mm

153 Permissible variations in wheel tread diameter on the same coach on BG is –(while turning the wheel)

(a) 12.0 mm (b) 10.0 mm (c) 11.0 mm **(d) 13.0 mm**

154 Permissible variations in wheel tread diameter for the same bogie on BG is -(while turning the wheel)

(a) 10.0 mm (b) 7.0 mm **(c) 5.0 mm** (d) 8.0 mm

155 The axle load of AC coaches is –

(a) 22.0 tons **(b) 16.25 tons** (c) 15.0 tons (d) 14.50 tons

156 Axle load capacity of generator (WLLRM) coach is –

(a) 16.0 tons **(b) 16.25 tons** (c) 15.0 tons (d) 20.30 tons

157 The use of 13 tons axle load bogie is in –

(a) PVH (b) AC (c) Power Car (d**) Non AC**

158 Flat faces on BG coach is permitted up to –

(a) 60.0 mm (b) **50.0 mm** (c) 75.0 mm (d) 90.0 mm

159 High speed ICF coach condemning flange thickness is –

(a) 14.0 mm (b) 13.0 mm **(c) 22.0 mm** (d) 10.0 mm

160 Lateral movements of wheels are controlled by –

(a**) Axle Guide** (b) Journal center (c) roller bearing (d) Desh pot

161 Bogie wheelbase of ICF/ RCF all coil bogies are -

(a) 2896 mm (b) 2986 mm (c) 2886 mm (d) 2997 mm

162 Min shop issue size of ICF solid wheel is –

(a) 837 mm (b) 870 mm (c) 854 mm (d) 8746 mm

163 Flange thickness of new BG wheel coach is –

(a) 28.0 mm **(b) 28.50 mm** (c) 29.50 mm (d) 27.50 mm

164 The radius of the root of flange of new BG wheel is –

(a) 14.0 mm (b) 16.0 mm (c) 18.0 mm (d) 19.0 mm

165 Condemning height of flange on tread on BG wheel is –

(a) 30.0 mm (b) 32.0 mm (c) 34.0 mm **(d) 35.0 mm**

166 Condemning size of radius at the top of flange (Sharp flange) of BG main line coach wheel is –

(a) 8.0 mm **(b) 5.0 mm** (c) 10.0 mm (d) 12.0 mm

167 Means of WRA is –

(a) **Water raising apparatus** (b) White race assistance

(c) Water recording agreement (d) None of the above

168 What is the means of WSP?

(a) Water speed protection (b) **Wheel slide protection**

(c) Wheel solid profile (d) None of the above

GOODS STOCK

169 Permissible variation in new wheel tread diameter on the same axle on BG bogie wagon is -

(a) 0.45 mm **(b) 0.5 mm** (c) 0.35 mm (d) 0.3 mm

170 Permissible variation in wheel tread diameter on the same trolley of BG wagon while changing the wheel is -

(a) 10 mm **(b) 13 mm** (c) 12 mm (d) 15 mm

171 Permissible variation in wheel tread diameter on the same wagon of BG while changing the wheel is -

(a) 13 mm **(b) 25 mm** (c) 30 mm (d) 28 mm

172 The composite Brake block in yard for air Bk. train should be changed when thickness is

(a) 10.0 mm (b) 15.0 mm (c) 20.0 mm (d) 25.0 mm

173 Of which brake van the quick coupling is the part-

(a) BVZT (b) BVZX **(c) BVZC** (d) BVZM

174 What is the length over Headstock of the BOXN wagon?

(a) 9774 mm **(b) 9784 mm** (c) 9777 mm (d) 9848 mm

175 Tare weight of the BOXN wagon is -

(a) 22.37 tons. **(b) 22.47 tons.** (c) 22.91 tons. (d) 22.90 tons.

176 What is the length over couplers of the BOXN wagon?

(a) 10713 mm (**b) 10813 mm** (c) 11002 mm (d) 10100 mm

177 What is the length over couplers of the BCN wagon?

(a) 15400 mm (b) 15443 mm **(c) 15429 mm** (d) 15562 mm

178 Gross load of the BOXN wagon is -

(a) 78.92 t **(b) 81.28 T** (c) 86.78 t (d) 88.81 t

179 In accident manual, train parting is under –

(a) J class (b) K class (c) C class (d) P class

180 Newly built BOXN wagon first POH periodicity is –

(a) 4.5 year (b) 5.5 year **(c) 6.0 year** (d) 6.5 year

181 Newly built BLC containers wagon first POH periodicity is –

(a) 4.5 year (b) 2.0 year **(c) 6.0 year** (d) 3.5 year

182 Board gauge track gauge is –

(a) 1676 mm (b) 1667 mm (c) 1698 mm (d) 1500 mm

183 POH of BG brake van is –

(a) 3.5 year **(b) 2.0 year** (c) 2.5 year (d) 3.0 year

184 Torque value of Cartridge type roller bearing cap screw is –

(a) 42.0 kg-m. **(b) 40.0 kg-m.** (c) 38.0 kg-m. (d) 44.0 kg-m.

185 C- class ODC shall be moved during –

(a) Day light (b) Day-night time

(c) Only night time (d) None of the above

186 In air brake system, the thread joints are tightened with which type of tape?

(a) Cello tape **(b) Teflon tape**

(c) Paper tape (d) None of the above

187 Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogies and air brake system, What RDSO's technical pamphlet is used?

(a) G-90 **(b) G-70** (c) G-97 (d) WT- 77

188 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**

189 As per new wagon numbering scheme, first two digits will indicate-

(a) Owning Railway **(b) Type of wagon** (c) Year of manufacture (d) Cheek digit

190 What do you mean by PME?

(a) Pre medical examination (b) Pre maintenance examination

(c) Periodical maintenance examination (d) Power mechanical equipment

191 What do you mean by CC rakes?

(a) Content contact pad. **(b) Close circuit rake**

(c) Complete coal rake (d) All the above

192 The minimum permissible buffer height above rail line to center of H/ Stock under loaded condition is -

(a) 1105 mm (b) 1145 mm (c) 1115 mm **(d) 1030 mm**

193 Standard diameter of knuckle pivot pin is -

(a) 50 mm (b) 43 mm **(c) 41.28 mm** (d) 34 mm

194 Standard dimension of shank wear plate for AAR coupler is -

(a) 12 mm (b) 8 mm **(c) 6 mm** (d) 14 mm

195 Standard dimension of distance between the nose of Knuckle and guard arm is -

(a) 140 mm (b) 150 mm **(c) 127 mm** (d) 12 mm

196 The maximum permissible free slack in the draft gear in service is –

(a) 35 mm (b) 30 mm **(c) 25 mm** (d) 20 mm

197 No. of CBC gauge are –

(a) 5 **(b) 8** (c) 12 (d) 2

198 The high capacity draft gears are -

(a) Mark -20 & RF-401 **(b) Mark 50 & RF361**

(c) CF 21& RF-600 (d) DF 39 & RF-21

199 To Adjust buffer height for 930 mm wheel diameter on BCN wagon except CASNUB 22 W, packing piece used is –

(a) 38 mm **(b) 37 mm** (c) 33 mm (d) 32 mm

200 What type of center buffer coupler used in Indian Railway?

(a) APRT type (b) AARP type **(c) AAR type** (d) ARPA type

201 The working strength of center buffer coupler is -

(a) 100 t **(b) 120 t** (c) 140 t (d) 180 t

202 The tractive effort of the Loco to the individual wagons is transmitted with the help of -

(a) CBC **(b) Draw gear** (c) Knuckle (d) Side frame

203 Clevis and Clevis pin are the part of –

(a) Alliance- II coupler (b) Non- Transition coupler

(c) Transition coupler (d) Draw bar

204 Standard diameters of wheel on BOXN Wagon is -

(a) 1010 & 900 mm **(b) 1000 & 906 mm** (c)

c)950 & 906 mm (d) 906 & 813 mm

205 The axle load of BOXN, BCN, BRN, BOBR, BTPN wagon is -

(a) 22.9 t (b) 20.32 t (c) 16.6 t (d) 12.2 t

206 The wheel gauge should be measured on –

(a) Off load condition (b) Loaded wagon (c) Both condition (d) Empty wagon

207 The lowest wheel dia permitted by workshop for BOXN wagon is -

(a) 919 mm (b) 906 mm (c) 925 mm (d) 860 mm

208 In CTRB the grease use per Axle box is -

(a) 455 ±30 gms (b) 490±15 gms (c) 500±35 gms (d) 550±20 gms

209 The condemning diameter of BTPN wheel is -

(a) 813 mm (b) 990 mm **(c) 906 mm** (d) 860 mm

210 Permissible maximum flat surface on tread on other BG wagon are –

(a) 75 mm **(b) 60 mm** (c) 75 mm (d) 70 mm

211 What is an integrated portion of the axle?

(a) Cap (b) Roller bearing

(c) **Journal** (d) None of the above

212 Standard dimension 'e' in SAB on Goods stock is -

(a)550 to 570 mm **(b)555 to 575 mm**

(c)570 to 580 mm (d)555 to 565 mm

213 The colour coding of distributor valve of air brake goods stock is –

(a) Yellow **(b) Black** (c) Green (d) White

214 In air brake end-to end rakes, After intensive examination validity of BPC remain up to the –

(a) Next station (b) Loading point **(c) Destination point** (d) 72 Hours

215 Control rod diameter of air brake wagon is –

(a) 30 mm **(b) 32 mm** (c) 38 mm (d) 40 mm

216 Piston stroke of BOXN wagon in empty conditions is -

(a) 85±10 mm (b) 70±15 mm (c) 75±5 mm (d) 80±10 mm

217 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

218 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

219 Dirt collector of a wagon should be cleaned within-

(a) At the time of ROH (b) 2 month (c) 6 month (d) 3 month

220 What is the capacity of control reservoir in goods train?

(a) 4 Lit. **(b) 6 Lit** (c) 8 Lit. (d) 10 Lit.

221 The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than –

(a) 4.5kg/ Cm^2 (b) 3.7 kg/ Cm^2 **(c) 4.8 kg/ Cm^2** (d) 5.8kg/ Cm^2

222 When we release manually KE type DV, the air pressure release form -

(a) CR & AR (b) BC & AR **(c) CR & BC** (d) AR & DV

223 The diameter of branch pipe of BP to DV for wagon is –

(a) 25 mm **(b) 20 mm** (c) 13 mm (d) 22 mm

224 'A' dimension in Boxn wagon is -

(a) 70^{+2}_{0} mm (b) 172±3 mm (c) 175±4 mm (d) 175+1mm

225 For testing Air pressure locomotive the test plate hole diameter is-

(a) 8.2 mm **(b) 7.5 mm** (c) 9.5 mm (d) 10 mm

226 The diameter of air brake cylinder BOXN wagon is-

(a) 300 mm **(b) 355 mm** (c) 360 mm (d) 315 mm

227 The diameter of air bake cylinder in BVZC (Wagon) is -

(a) 300 mm (b) 295 mm (c) 305 mm (d) 315 mm

228 The capacity of Auxiliary Reservoir (wagon) in air brake except Bk.Van is-

(a) 200 litre **(b) 100 litre** (c) 300 litre (d) 150 litre

229 In Single pipe system the time taken in releasing of the wagon brake is-

(a) 60 Sec. (b) 120 Sec. (c) 210 Sec. (d) 90 Sec.

230 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

231 The capacity of compressor machine for air brake testing of rake is –

(a) 12-15 Kg/ Cm^2 **(b) 8-10 Kg/ Cm^2** (c) 7-12 Kg/ Cm^2 (d) 7-8 Kg/ Cm^2

232 At the originating point, minimum brake power of premium end-to-end rake is -

(a) 85% (b) 95% **(c) 90%** (d) 98%

234 The brake power of CC rake from nodal point is –

(a) 90% **(b) 100%** (d) 85% (d) 75%

235 Brake power certified issued for Premium end-to-end rakes will be valid for –

(a) 10+5 days **(b) 12+3 days** (c) 15+3 days (d) one month

236 What is the function of DC (Dirt collector)?

(a) Collect dirt (b) Collect air **(c) Clean air** (d) Clean CR

237 How much pressure should drop in a minute after putting a test plate in locomotive?

(a) 0.8 Kg/ Cm^2 **(b) 1.0 Kg/ Cm^2** (c) 1.2 Kg/ Cm^2 (d) 1.5 Kg/ Cm^2

238 The colour for brake power certificate for Premium end-to-end rake is-

(a) Green (b) White (c) Pink (d) Yellow

239 For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm^2 is -

(a) 30-40 sec (b) 40-50 sec **(c) 45-60 sec** (d) 50-75 sec

240 What is the piston stroke of BVZC wagons?

(a) 50±10 mm **(b) 70±10 mm** (c) 85±10 mm (d) 90± 5 mm

241 What is the empty piston stroke of BOBR/BOBRN wagon is -

(a) 70±10 mm (b) 75±10 mm (c) 80±10 mm **(d) 100±10 mm**

242 'A' dimension of the BOBRN wagon is -

(a) $29\pm2_{\ 0}$ mm **(b) $27\pm 2_{\ 0}$ mm** (c) 33± 2 mm (d) 25±5 mm

243 What is the colour of BPC of air brake CC rake?

(a) Red (b) Pink (c) Green **(d) Yellow**

244 Control rod of SAB when rotated for one round, control rod head moves by a distance of

(a) 6.0 mm (b) 4.0 mm **(c) 2.0 mm** (d) 1.0 mm

245 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

246 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

247 The M.R. pressure of engine should be-

(a) 6.0 to 8.0 Kg/ Cm^2 **(b) 8.0 to 10.0 Kg/ Cm^2**

(c) 10.0 to 12.0 Kg/ Cm^2 (d) 12.0 to 15.0 Kg/ Cm^2

248 What do you mean of SWTR?

(a) Single wagon test rubber **(b) Single wagon test rig**

(c) Sliding wagon test ring (d) None of the above

249 If C3W type DV is manually released, pressure is released from -

(a) AR (b) Control reservoir

(c) Brake cylinder **(d) All above**

250 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

251 The Empty Load Device indicator plate shows -

(a) Yellow empty, black loaded (b) Blue empty, black loaded

(c) White empty, black loaded (d) black empty, blue loaded

252 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.**

253 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

254 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 deed lever

(d) To push the control rod

255 Standard thickness of UIC/CASNUB bogies composite brake block is-

(a) 60 mm (b) 45 mm (c) 55 mm **(d) 58 mm**

256 How many side frame fitted in CASNUB trolley / bogie?

(a) 2 (b) 1 (c) 3 (d) Nil

257 What is the axle load of CASNUB trolley?

(a) 19.2 ton **(b) 22.9 ton** (c) 20.3 ton. (d) 20.9 ton

258 What is the new wheel diameter CASNUB 22 w (Retrofitted)?

(a) 1000 mm (b) 960 mm **(c) 956 mm** (d) 946 mm

259 What type of pivot used in CASNUB 22WM, 22NL and other type of CASNUB trolley?

(a) IRS type **(b) Spherical type** (c) other type

260 What is the nominal leteral clearance between side frame & axle box/adopter Casnub 22NL, 22NLB, 22HS bogie?

(a) 18 mm **(b) 16 mm** (c) 22 mm (d) 25 mm

261 What is the standard inclination on wheel tread?

(a) 1 in 20 (b) 1 in 22 (c) 1 in 18 (d) 1 in 25

262 How many types of adopters used in CASNUB trolley?

(a) 2 (b) 1 **(c) 3** (d) 4

263 Condemning size of elastomeric pad for Casnub bogie is -

(a) 44 mm (b) 43 mm **(c) 42 mm** (d) 40 mm

264 Nominal dimension of side bearer rubber pad for Casnub bogie is -

(a) 114 mm (b) 116 mm (c) 118 mm (d) 120 mm

265 Condemning size of side bearer rubber pad for Casnub bogie is -

(a) 111 mm (b) 110 mm **(c) 109 mm** (d) 108 mm

266 What type of side bearers fitted in CASNUB 22HS trolley?

(a) Metal CC type **(b) Spring loaded CC type side bearer & PU type**

(c) Roller type (d) none of the above

267 Which types of steel are used in side frame column friction plates of Casnub bogie?

(a) Mild steel (b) Carbon steel

© Silico manganese steel (d) None of the above

268 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

269 Pay load of BTPN tank wagon is –

(a) 58.88 tons **(b) 54.28 tons** (c) 55.80 tons (d) 52.3 tons

270 Axle load of BTPN tank wagon is –

(a) 20.32 tons (b) 22.35 tons (c) 21.35 tons (d) 25.22 tons

271 Cleaning of bitumen barrel is carried out with –

(a) Kerosene oil (b) patrol (c) ledium (d) None of the above

272 Name the type of coupling used in BLC wagon?

(a) CBC & Slack Less Drawbar (b) HT CBC

(c) Screw coupling (d) Slackness drew bars

273 Barrel length of BTPN tank wagon is –

(a) 11460 mm (b) 11550 mm **(c) 11458 mm** (d) 12100 mm

274 Barrel diameter of BTPN tank wagon is –

(a) 2860 mm (b) 2850 mm **(c) 2840 mm** (d) 2830 mm

275 The mechanical code of bogie Petrol tank wagon fitted with pneumatic brake is -

(a) BTPN (b) LBM (c) LBM (d) LCT

276 The mechanical code of caustic soda tank wagon is -

(a) CTB & CTBS **(b) TCS & BTCS** (c) THA & BTCS (d) TCS& MBTS

277 Codal life of Tank wagon is -

(a) 35 year **(b) 45 year** (c) 50 year (d) 25 year

278 In the tank wagon, close the vapour extractor cock after -

(a) Un loading **(b) Loading** (c) Running (d) None of the above

279 Working pressure of BTPN safety valve is –

(a) 1.4 Kg/cm^2 (b) 4.1 Kg/cm^2 (c) 2.1 Kg/cm^2 (d) 1.2 Kg/cm^2

280 Interval of ROH in BTPN tank wagon is –

(a) 16 month (b) 20 month

(c) 18 month **(d) 24 month**

281 Cleaning of H_2SO_4 tank wagon is carried out with –

(a) Lithium phosphate **(b) Sodium phosphate**

(c) Bromide phosphate (d) None of the above

282 Air tightens test pressure of master valve is –

(a) 0.35 to .056 kg/ Cm^2 (b) 0.45 to 0.65 kg/ Cm^2

(c) 0.65 to 0.75 kg/ Cm^2 (d) None of the above

283 What is the location of safety valves fitted in liquefied petroleum gas tank wagon?

(a) Inside dome (b) Outside dome

(c) Outside on barrel (d) None of the above

284 Condemning limit of BLC wheel set is –

(a) 900 mm (b) 800 mm (c) 670 mm **(d) 780 mm**

285 For lifting the container, force required to lift the container on automatic twist lock is-

(a) 1050 Kg **(b) 1000 Kg** (c) 1100 Kg (d) 11590 Kg

286 In place of empty load box what device is used in BLC wagon?

(a) BSD **(b) LSD** (c) SDF (d) SAB

287 What is the material specification of BLC wagon trolley?

(a) Cast steel (b) Low cast steel (c) Steel (d) Micro steel

288 Length of over Slack less draw bar for B-car of BLC wagon is –

(a) 14566 mm (b) 13156 mm **(c) 12212 mm** (d) 14763 mm

289. The standard height of platform for BLC wagon from Rail level is –

(a) 1010 mm (b) 1015 mm **(c) 1009 mm** (d) 1100 mm

290 The axle load capacity of BLC wagon is –

(a) 20.10 ton. **(b) 20.32 ton.** (c) 21.10 ton. (d) 23.10 ton.

291 The tare weight of A-car of BLC wagon is –

(a) 21.20 ton. **(b) 19.10 ton.** (c) 19.80 ton. (d) 20.22 ton.

292 The tare weight of B- car of BLC wagon is –

(a) 18.10 ton. (b) 19.10 ton. (c) 19.80 ton. (d) 20.20 ton.

293 Length of over Headstock to Headstock for A-car of BLC wagon is –

(a) 13650 mm (b) 13625 mm (c) 13555 mm (d) 13365 mm

294 In BLC wagon, height of slackness drowbar system from Rail level is –

(a) 890 mm (b) 848 mm **(c) 845 mm** (d) 910 mm

295 How many automatic twist locks used in BLC wagon?

(a) 6 **(b) 8** (c) 10 (d) 12

296 Rake carrying capacity of the BLC wagon is –

(a) 40 wagons **(b) 45 wagons** (c) 40 wagons (d) 48 wagons

297 Which type of side bearer arrangement used in BLC trolley?

(a) Elestromatic (b) constant contact type

(c) Spring loaded side bearer and PU pad (d) None of the above

298 Which type of trolley used in BLC wagon?

(a) UIC trolley **(b) Cast steel bogie type LCCF 20 (C)**

(c) IRS trolley (d) Diamond frame trolley

299 For automatic locking & for lifting of automatic twist lock how much force is Kg required, respectively?

(a) 600 & 1000 Kg (b) 800 & 1200 Kg

(c) 1000 & 500 Kg (d) 500 & 1350 Kg

300 What type of roller bearing used in BLC wagon?

(a) Cartage type **(b) tapered two-row cartridge roller bearing**

(c) Sparical type (d) plan bearing

301 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'

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