

LHB Design Coaches

GENERAL QUESTIONS

1. What is the full form of LHB?
a) Lower heavy Bogie **b) Linke Hofmann-Busch**
c) low height Bogie d) None of these
2. What is the length over body of LHB coaches?
a) 23570 mm b) 23545 mm
c) **23540 mm** d) 23565 mm
3. What is the maximum width over body of LHB coaches?
a) 3260 mm **b) 3240 mm**
c) 3456 mm d) 2356 mm
4. Height of compartment floor from rail level under tare condition of LHB coaches?
a) **1320 mm** b) 1389 mm
c) 1305 mm d) 1345 mm
5. What is Maximum height of centre line of side CBC above rail for empty vehicle?
a) 1108 mm b) 1107 mm
c) **1105 mm** d) 1103 mm
6. What is minimum height of centre line of CBC above rail level for loaded vehicle?
a) **1030 mm** b) 1039 mm
c) 1025 mm d) 1015 mm
7. What is the higher speed potential of LHB coaches?
a. 160 Kmph upgradeable to 180 Kmph
b. 180 Kmph upgradeable to 200 Kmph
c. **160 Kmph upgradeable to 200 Kmph**
d. 200 Kmph upgradeable to 220 Kmph
8. What is the wheel gauge of LHB wheel?
a) 1676 mm **b) 1600±1 mm**
c) 1610 mm d) 1676 ±1 mm
9. What is the new wheel diameter of LHB wheel?
a) 910 mm **b) 915 mm**
c) 912 mm d) 725 mm

10. What is the condemning limit of LHB wheel diameter?
a) 813 mm b) 839 mm
c) **845 mm** d) 854 mm
11. How many brake disc on one wheel?
a) One b) **Two**
c) Three d) Four
12. Which type of Roller bearing is used in LHB coaches?
(a) Spherical Roller bearing. b) Plain Roller bearing.
c) **Cartridge Tapered Roller bearing.**
D) None of these.
13. What is the thickness of wheel flange in LHB coaches?
a) 24 mm b) **26.5mm**
c) 26 mm d) 25 mm
14. What is the thickness of brake disc.?
a) 100 mm b) **110 mm**
c) 105 mm d) 108 mm
15. What is the diameter of brake disc?
a) 650 mm b) 630 mm
c) **640 mm** d) 645 mm
16. What is diameter of wheel axle of LHB Coach?
a) 172 MM b) 170 MM
c) **153 MM** d) 165 MM
17. How many make CTBUs are used on LHB Coaches?
a) 1 b) **2**
c) 3 d) 4
18. What is the maximum temperature limit for TIMKEM CTBU?
a) 90 oC b) **80 oC**
c) 85 oC d) 87 oC
19. How many types of shock absorbers are used in LHB Coaches?
a) 6 b) 5
c) **4** d) 3
20. How many shock absorbers are used in LHB Coaches?
a) 10 nos. b) 8nos.
c) 18nos. d) 12 nos.

21. What is the name of shock absorber connected between bogie and car body?

- a) Primary
- b) Secondary
- c) Yaw.
- d) None of these.

22. Most important condition for coupling of two coaches is -

- (A) Both couplers should be in alignment.
- (b) Both couplers should be within gathering range.
- (c) Both a & b
- d) None of above

23. What is the length over CBC of LHB Coaches?

- a) 23590 mm
- b) 24000 mm**
- c) 24095 mm
- d) 24225 mm

24. What is the height over roof of LHB Coaches?

- a) 4200 mm
- b) 4390 mm
- c) 4039 mm
- d) 4190 mm

25. Approx. "Riding Index" of LHB Coach -

- a) 3.5
- b) 3.8
- c) 2.5**
- d) 3.0

26. Distance between inner wheels of LHB -

- a) 12340 mm**
- b) 10390 mm
- c) 11545 mm
- d) 12010 mm

27. Distance between centre pivots -

- a) 13780 mm
- b) 14030 mm
- c) 14900 mm**
- d) 14350 mm

28. Maximum permissible buffer drop under gross load and worn condition is -

- a) 65 mm
- b) 70 mm
- c) 75 mm**
- d) 80 mm

29. Trip Maintenance Schedule i.e. D1 of LHB Coach is done -

- a) 7±1 days
- b) 15 days
- c) Every Trip**
- d) 30 days

- 30.D2 Maintenance Schedule of LHB Coach is done -
a) 30 days \pm 1days **b) 30 days \pm 3days**
c) 30 days \pm 5days d) 30 days \pm 7days
- 31.D3 Maintenance Schedule i.e. of LHB Coach is done -
a) 150 days \pm 1days b) 120 days \pm 3days
c) **180 days \pm 15 days** d) 90 days \pm 7days
- 32.'SS-I' (Shop Schedule-1) of LHB coach is done -
a) 1 year b) 2 years
(c)1.5 year/ 6 lakes Kms earned whichever is earlier
(d) 3 years/ 6 lakes Kms earned whichever is earlier
- 33.'SS-II' of LHB coach is done -
a) 1 year b) 2 years
(C)1.5 year/ 6 lakes Kms earned whichever is earlier
(d) 3 years/ 12 lakes Kms earned whichever is earlier
- 34.On KM basis 'SS- I' of LHB coach is done -
a) 5 lakh **b) 6 lakh**
c) 9 lakh d) 12 lakh
- 35.On KM basis 'SS -II' of LHB coach is done -
a) 5 lakh b) 6 lakh **c) 12 lakh** d) 24 lakh
- 36.'SS -III' of LHB coaches is done -
a) 5 years b) 4 years
(c) 3 years/ 12 lakes Kms earned whichever is earlier
(d)6 years/ 24 lakes Kms earned whichever is earlier
- 37.'IOH' of LHB coaches is done -
a) 18 months b) 12 months c) 9 months d) 14 months
- 38.Codal life of LHB coaches is -
a) 30 years b) 25 years **c) None of the above** d) 35 years
- 39.Brake power of air brake for Rajdhani coaches from out station is -
a) 90% b) 100%
c) 85% d) 95%
- 40.Length of car body of LHB coach is -
a) 24000 mm **b) 23540 mm**
c) 2400 mm d) 24430 mm

41. To protect vertical sliding between engine and power car, the device is known as -

- a) Vertical slide protector
- b) Restrictor**
- c) Protecting device.
- d) None of these

42 .What is the wheel base of LHB bogie?

- a) 2440 mm
- b) 2696 mm
- c) 2560 mm**
- d) 2570 mm

Coach/Shell

43. Side wall of LHB Coaches are manufactured from -

- a) Austenitic steel (SS 304M)
- b) IRSM-41
- c) **Ferritic steel (SS-409M)**
- d) IRSM-44

44. Roof sheet of LHB Coaches are manufactured from -

- a) Austenitic steel (SS 304)**
- b) IRSM-41
- (c) Ferritic steel (SS-409)
- d) IRSM-44

45. End wall of LHB Coaches are manufactured from -

- a) Austenitic steel (SS 304M)
- b) IRSM-41
- c) **Ferritic steel (SS-409M)**
- d) IRSM-44

46. Trough floor of LHB Coaches are manufactured from -

- a) Austenitic steel (SS 304)**
- b) IRSM-41
- c) Ferritic steel (SS-409)
- d) IRSM-44

47. Cross members of under frame of LHB Coaches are manufactured from -

- a) Austenitic steel (SS 304)
- b) IRSM-41**
- c) Ferritic steel (SS-409)
- d) IRSM-44

48. Thickness of Roof sheets of LHB coaches are -

- a) 2mm & 2.75
- b) 1.25 mm & 1.7 mm**
- c) 3mm & 3.25 mm
- d) 2.75 mm & 2.5 mm

49. Thickness of Corrugated sheets of LHB coaches are -
a) 2 mm b) 3 mm c) **1.25 mm** d) 2.5 mm
50. Thickness of side wall sheets of LHB coaches are -
a) **2 mm** b) 3 mm c) 1.25 mm d) 2.5 mm
51. Sole bar of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304) b) **IRSM-41**
c) Ferritic steel (SS-409) d) IRSM-44
52. Thickness of sole bar of LHB coaches is -
a) 2 mm b) 5 mm c) 4 mm d) **6 mm**
53. Thickness of Roof flange of LHB coaches is -
a) 2 mm b) 5 mm c) **4mm** d) 6 mm
54. Material of yaw damper bracket of LHB Coaches is -
a) **Cast steel** b) IRSM-41
c) Ferritic steel (SS-409) d) IRSM-4413.
55. The Fire Extinguisher used in AC LHB coaches is -
a) Foam type b) **DCP Type**
c) CO₂ type d) None of these
56. Fire Extinguisher should be refilled -
a) Every month b) **Every 3 months**
c) After 1 year d) On every trip

BRAKE SYSTEM

57. Torque value of brake caliper mounting bolt is -
a) 200 NM b) **170 NM**
c) 150 NM d) 190 NM
58. What is the principle of brake system used on LHB coaches?
a. Single pipe air brake system
b. Twin pipe air brake system
c. **Twin pipe with disc brake air brake system.**
d. None of these
59. What is the capacity of AR tank?
a) **200 ltrs** b) 75 ltrs
c) 125 ltrs d) 300 ltrs
60. 125 Ltr AR tank used for -
a) Toilet purpose b) **Braking purpose**
c) Standby d) None of these.

61. 75 Ltr AR tank used for -
a) **Toilet purpose**
b) Braking purpose
c) Standby
d) None of these
62. What is the capacity of CR TANK?
a) 5.0 Liters
b) **6.0 Liters**
c) 9.0 Liters
d) 8.0 Liters
63. Bore size of main BP and FP pipe is -
a) 45 mm bore
b) **25 mm bore**
c) 20 mm bore
d) 18 mm bore
64. Diameter of BC line branch pipe is -
a) 25 mm
b) 20 mm
c) **18 mm**
d) 16 mm
65. Diameter of brake indicator pipe is -
a) 18 mm
b) **10 mm**
c) 15 mm
d) 20 mm
66. When brake indicator shows 'Red', the brake will be -
a) Released
b) **Applied**
c) Indicator defective
d) none
67. When brake indicator shows 'Green' the brake will be -
a) **Released**
b) Applied
c) Indicator defective
d) none
68. Brake accelerator is a -
a) Brake actuating device
b) **Emergency brake application device.**
c) Both a & b
d) None of these
69. Principle application of brake accelerator is -
a) **Emergency braking in each coach of rake**
b) Partial braking in each coach of rake.
c) Similar braking in each coach of rake
d) None of these.
70. Brake accelerator actuates during -
a) Every service application
b) **Emergency brake application**
c) Both a & b
d) None of these.

71. Minimum rate of pressure required to actuate the brake accelerator -
 a) 1.2 kg/cm² per minute b) 1.6 kg/cm² per minute
c) 5 to 3.2 kg/cm² in 3 Sec d) More than 1.6 kg/cm² per minute
72. Brake accelerator stops venting when BP pressure reached to -
 a) 1.0 kg/cm² b) 3.5 - 3.0 kg/cm²
c) 2.5 - 1.5 kg/cm² d) 1.5 - 1.0 kg/cm²
73. Brake accelerator is connected to -
 a) FP pipe **b) BP pipe**
 c) BC pipe d) both a & b
74. How many pressure tanks provided on generator car.
 a) 3 b) 2
c) 4 d) 5
75. What is the capacity of pressure tank provided for parking brake?
 a) 9Ltr b) 5 Ltr.
c) 6Ltr. d) 8 Ltr.
76. What is the name of cable provided for hand brake?
 a) Hand brake cable **b) Flex ball cable**
 c) Both a & b d) None of these
77. How many flex ball cables provided on generator car.
 a) One **b) Two**
 c) Four d) Three
78. Flex ball cable directly connected to -
 a) Brake caliper **b) Brake cylinder**
 c) Both d) None of these
79. 'ASD' stands for -
 a) Anti Sleep device **b) Anti slip device**
 c) Both a & b d) None of these
80. What is the purpose of Anti Skid system?
a) To protect wheels against skidding.
 b) To maintain same speed of all axle
 c) Both a & b. d) None of these

81. What is the purpose of Dump Valve?
- a) To maintain approximate same speed of all axles.
 - b) To protect wheels against skidding
 - c) A & b both.**
 - d) None of these
82. The applications of Dump valve is -
- a) Only braking.
 - b) Only De-braking
 - c) Both braking and de-braking.**
 - d) None of these
83. Electricity required for Dump valve operative -
- a) 110 volt AC
 - b) 110 volt DC**
 - c) 24 Volt DC
 - d) 230 Volt AC
84. Anti skid system is a -
- a) Electronic system
 - b) Pneumatic system
 - c) Electro Pneumatic system
 - d) both a & c**
85. What is the purpose of speed sensor?
- a) To compute the revolutions of each axle**
 - b) To maintain same speed of each axle
 - c) Either a or b
 - d) None of these
86. What is the limit of air gap between sensor and phonic wheel?
- a) 1.0 - 5.0 mm
 - b) 1.0- 10.0 mm
 - c) 0.9 – 1.4 mm**
 - d) 1.0 –2.5 mm
87. What is the purpose of pressure switch?
- a) To actuate antiskid system**
 - b) To provide electric supply to brake accelerator
 - c) To provide electric supply to dump valve.
 - d) None of these
88. Pressure switch actuate at the train pressure reaches -
- a) 0.5 bar
 - b) 1 bar
 - c) 1.3-1.8 bars.**
 - d) 1.5 – 3.0 bars
89. In KNORR BREMSE system pressure switch connected to -
- a) FP line**
 - b) BP line
 - c) BC line
 - d) both a & b
90. In SAB WABCO system pressure switch connected to -
- a) BP line
 - b) FP line**
 - c) BC line
 - d) none of these

91. How many brake cylinders are used in LHB coaches?

- a) 6
- b) 4
- c) 8
- d) 16

92. If anti skid system not actuate, the reason may be -

- a) Fuse no. 63, 65 may blown.
- b) Setting of pressure switch may disturb.
- c) Both a & b**
- d) None of these.

93. The '99' code shown on micro processor means -

- (a) Whole system working perfectly.**
- b) Either a or b
- c) Some defect in speed sensor.
- d) None of these.

94. If micro processor shows '72' code means -

- a) Temporary fault at one axle.
- b) Permanent fault at several axles.
- c) Volatile fault
- d) Permanent fault at one axle**

95. If micro processor shows '73' code means -

- a) Temporary fault at one axle
- b) Permanent fault at several axles**
- c) Permanent fault at one axle.
- d) Both a & b

96. If micro processor shows '95' code means -

- a) Temporary fault
- b) Permanent fault
- c) No fault
- d) none of these**

97. How much pressure dropped when emergency brake pull box pulled?

- a) 0.4 kg/cm²
- b) 1.0 kg/cm²
- c) Almost 3 kg/cm²**
- d) none of these

98. Size of choke provided in emergency brake valve is -

- a) 0.4 mm
- b) 2.0 mm
- c) 3.0 mm
- d) No choke**

99. What is size of air tube run through coach length?

- a) 8.0 mm
- b) 6.0 mm
- c) 10.0 mm**
- d) 9.0 mm

100. 'PEASD' stands for -

- a) **Passenger emergency alarm signaling device.**
- b) Passenger emergency alert safety device.
- c) Passenger emergency alarm short device.
- d) None of these

101. "PEASD" provided in LHB can be reset -

- a) From under gear of coach only
- b) From any where of inside coach
- c) **From the point where chain pulled.**
- d) Both a & b

102. How can identified the actual position of chain pulled.

- A) Pull box will in up position & hissing sound heard.
- b) Pull box will in down position & hissing sound not heard.
- C) Pull box will in down position and hissing sound can hear.**
- d) None of these

103. Location of isolating cock provided in 'PEASD' in LHB coaches.

- a) On under gear
- b) Near emergency brake valve
- c) No isolating cock provided**
- d) None of these

104. When emergency pull box pulled from inside the coach.

- a) The air pressure slightly dropped.
- b) The air pressure dropped.**
- c) No pressure dropped
- d) None of these.

105. When emergency chain pulled, brake accelerator will -

- a) Not respond
- b) Respond**
- c) May be respond
- d) None of these.

106. Thickness of new brake pad is -

- a) 28 mm
- b) 30 mm
- c) 35 mm**
- d) 32 mm

107. Condemning limit of brake pad is -

- a) 10 mm
- b) 7 mm**
- c) 8 mm
- d) 9 mm

108. Maximum brake cylinder pressure in kg/cm² is -

- a) 3.0 ± 0.1 kg/cm²**
- b) 3.8 ± 0.1 kg/cm²
- c) 2.8 kg/cm²
- d) 4.0 ± 0.1 kg/cm²

109. Maximum gap between brake disc and brake pad is -

- a) 3mm
- b) 1mm**

- c) 2mm d) 1.5 mm
110. In built slack adjuster in brake cylinder is -
a) **Single acting mechanism** b) Double acting mechanism
c) No slack adjuster d) None of these.
111. The brake cylinder is comprises
a) Power portion **b) Slack adjuster mechanism**
c) Spindle reset mechanism d) All above
112. How can brake be replaced?
a) By opening slack adjuster nut of cylinder
b) By opening brake calliper c) Both a & b.
d) None of these.
113. Actual size of tool required to open slack adjuster nut of KB brake cylinder is -
a) 42 mm **b) 27 mm**
c) 36 mm d) 40 mm
114. Correct direction to open slack adjuster nut of 'KB' make brake cylinder is -
a) Anti clock wise **b) Clock wise**
c) Any direction d) None of the above
115. Actual size of tool required to open slack adjuster nut of 'SAB' brake cylinder is -
a) 46 mm **b) 42 mm**
c) 47 mm d) 45 mm
116. Dia of 'SAB' make brake cylinder is -
a) 250 mm **b) 256 mm**
c) 245 mm d) 255 mm
117. Max. length of brake pad is -
a) 330 mm **b) 400 mm**
c) 350 mm d) 375 mm
118. Friction area of brake pad is -
a) 400 cm² b) 300 cm²
c) 350mm d) 375 cm²
119. If brake cylinder pipe pressure is below 0.6 bars, the brake indicator shows -

- a) Red
- b) **Green**
- c) Half R, Half Green
- d) Yellow

120.If brake cylinder pipe pressure is equal or more than 0.6 bar, the brake indicator shows-

- a) Green
- b) **Red**
- c) Half Red, Half Green
- d) Yellow

121.What is the diameter meter of brake disc?

- a) 110 mm
- b) **640 mm**
- c) 70 mm
- d) 125 mm

122.Brake disc made up of -a) **Gray Cast iron** b) Cast steel

- c) Special cast steel
- d) none

123.Fins provided between the brake discs -

- a) For strengthening to the disc
- b) **For cooling of disc**
- c) None of these.
- d) Both a & b

124.The brake disc fitted on a same axle at the distance is -

- a) 1030 mm
- b) 1070 mm
- c) 1100 mm
- d) 1125 mm

125.Distance of brake disc from inner face of wheel is -

- a) 195 mm
- b) **175 mm**
- c) 250 mm
- d) 210 mm

126.How many types of brake system being used on IR -

- a) One
- b) two
- c) Three
- d) **four**

127.Which type of air brake system being used on LHB coaching stock?

- a) Single pipe air brake system
- b) **Twin pipe disc brake system**
- c) Twin pipe air brake system
- d) Vacuum brake system.

128.How many type brakes system provided on LHB power car.

- a) One
- b) **Two**
- c) Three
- d) Four

129. Hand brakes are provided on LHB power cars known as
a) **Parking brakes** b) Emergency brakes
c) Flex ball remote control brakes d) Any of above
130. Hand brakes provided on no. of wheels is -
a) Only one **b) Any two**
c) Any three of all d) Any of above
131. What are the main advantages to adopt disc brake system on LHB coaches?
a) Wear and tear on wheels is minimized
b) Over all life of wheels is increased
c) Effective braking than old system
d) All above
132. How many brake discs are provided on one axle?
a) One **b) Two**
c) Three d) Four
133. The fins provided in between the brake discs for -
a. To provide effective cooling during braking
b. To minimize weight of brake disc.
c. To provide strength to brake disc.
d. To increase friction property of brake disc
134. How many brake discs are provided on one power car?
a) One **b) Eight**
c) Three d) Four
135. How many brake discs provided on LHB coaches are -
a) Four b) Eight
c) Twelve d) Sixteen
136. How many brake cylinders are provided in an "A" type coach?
a) 2 b) 1
c) 4 d) 8
137. How many brake cylinders are provided on an "A B" Type coach?
a) 1 b) 2
c) 4 d) 8
138. How many brake cylinders are provided on air brake freight stock?
a) 3 b) 2
c) 1 d) 4

139. How many brake cylinders are used in ALHBtype coaches.
- a) 1
 - b) 6
 - c) 12
 - d) 8**
140. Outer diameter of main BP pipe line is -
- a) 20mm
 - b) 32 mm**
 - c) 28 mm
 - d) 40 mm
141. Outer diameter of main FP pipe line is -
- a) 20 mm
 - b) 40 mm
 - c) 32 mm**
 - d) 28 mm
142. Outer diameter of main BC pipe line is -
- a) 20 mm
 - b) 18 mm**
 - c) 22 mm
 - d) 10 mm
143. Brake caliper unit mounted on -
- a) Bogie cross beam**
 - b) Bogie side frame
 - c) Wheel axles
 - d) Any of above
144. By pass system is used in brake system when -
- a) F.P pipe broken
 - b) B.P Pipe broken
 - c) Hose pipe broken
 - d) Any of these**
145. Single pipe system is used in brake system when -
- a) F.P pipe broken
 - b) B.P Pipe broken
 - c) Hose pipe broken
 - d) Any of these**
146. What will you do when one end BP angle cock leakage enroute -
- a) By pass the coach
 - b) Single pipe the train
 - c) Isolate the line from T- joint
 - d) Any of above**
147. Brake caliper unit should be checked for -
- a) Corroded part
 - b) Worn out pins
 - c) Free leverage
 - d) All above**
148. Brake caliper unit mounted with the help of -
- a) M16x60 bolt**
 - b) M 12x 60 mm bolt
 - c) M 24X60 mm bolt
 - d) M 20 x60 mm bolt
149. Torque required for brake caliper mounting bolt is -
- a) 170 nm**
 - b) 60 nm
 - c) 200nm
 - d) 190 nm
150. Brake caliper jammed when -
- a) Middle pin corroded

b) Brake pad pin worn out

c) Brake cylinder lose

d) Any of above

151. What can do to prevent brake caliper unit jamming -

a) Regular clean & lubricate middle pin

b) Regular clean & lubricate mounting bolt

c) Clean & lubricate brake pad pin

d) Any of above

152. Brake cylinder bellow of brake caliper unit should not be allowed it -

a) Torn below b) Cracked bellowed

c) Bent bellow d) All above

153. Brake indicator shows 'Green' when brakes are applied, what reason Should be -

a) CR of the coach not charged

b) Hand release valve stuck up in release position

c) Heavy leaking in BC line **d) Any of above**

154. One brake indicator shows 'Green' even brakes are in applied condition is -

a) CR of the coach not charged

b) Hand release valve stuck up in release position

c) Brake indicator stuck up in release position

d) Any of above

155. During drop test of the rake the maximum drop permitted in BP is -

a) 0.2 kg/cm²

b) 0.3 kg/cm²

c) 2.0 kg/cm²

d) 0.6 kg/cm²

156. During drop test of the rake the maximum drop permitted in FP is

a) 0.2 kg/cm²

b) 0.6 kg/cm²

c) 2.0 kg/cm²

d) 1.0 kg/cm²

157. During the Air brake test of the rake which hose pipe should be connect first -

a) FP hose pipe

b) BP hose pipe

- c) Any hose pipe d) Both hose pipe
158. During Air brake testing after connecting BP hose pipe what should be checked.
- a) Only BP gauge shows pressure
 - b) Only FP gauge shows pressure
 - c) Both BP & FP gauge shows pressure
 - d) Any of above**
159. The parking brake pressure tank is charge through -
- a) FP line**
 - b) Directly from BP line
 - c) Through DV
 - d) Any of above
160. During service application the brakes should apply in -
- a) 20 Sec.
 - b) 30 Sec
 - c) 3-5 Sec.**
 - d) 15-20 Sec.
161. During service application the brake accelerator will be-
- a) Definitely respond
 - b) Does not respond**
 - c) May be respond
 - d) any of above
162. During full brake application the max. Pressure in brake cylinder is -
- a) 1.6 Kg/Cm²
 - b) 3.0 Kg/Cm²**
 - c) 3.8 Kg/Cm²
 - d) 4.8 Kg/Cm²
163. Charging time of CR is -
- a) 150 Sec.
 - b) 160 Sec.**
 - c) 140 Sec.
 - d) 120 Sec.
164. After full brake application the brake should release with in.
- a) 10-20 Sec.
 - b) 20-25 Sec.
 - c) 15-20 Sec.**
 - d) 25- 30 Sec.
165. In case of brake binding what should be checked first -
- a) Brake binding on one trolley
 - b) Brake binding on both trolley
 - c) Brake binding on one wheel set
 - d) All the above**
166. In case of brake binding on both trolley what you do first -
- a) Isolate both trolley**

b) Isolate the DV

c) Pull the quick release valve wire

d) Any of above

167. In case of brake binding on one trolley what you do first -

a) Isolate both trolley

b) Isolate the DV

c) Pull the quick release valve wire

d) Isolate the affected trolley

168. In case of brake binding on one wheel set what you do first-

a) Check both brake calipers are jammed

b) Check dump valve of affected wheel

c) Check both brake cylinder in operative condition

d) Any of the above

169. In case of brake binding on one brake disc of one wheel set it means -

a) The brake cylinder may defective

b) The brake caliper may jam

c) The dump valve may defective

d) Either a or b or both

170. In case of brake binding on one brake disc of one wheel set what you do first -

a) Check dump valve

b) Check WSP fault

c) Remove brake caliper pin

d) Loosen slack adjuster nut of brake cylinder

171. In case of brake caliper jammed, what action should be taken to Release the brakes is -

a) Isolate the trolley

b) Remove brake caliper pivot pin

c) Remove brake cylinder hose pipe

d) Any of above

172. To protect the brake cylinder piston assembly the cover is known as -

a) Piston covers

b) Brake cylinder cover

c) Bellow

d) All of above

173. In case of brake binding on both brake disc of one wheel set what you do first -

a) Isolate affected trolley

b) Remove flexible pipe of BC line of affected wheel set.

c) Loosen slack adjuster nut of both brake cylinder

d) Any of above

174. What will happen when brake cylinder bellow got cracked or torn?

a) Nothing will happen

b) Dust can enter into brake cylinder

c) Pressure may leak through bellow

d) None of these

175. What is the reason of twisting of bellows?

a) Dust accumulation between bellow and piston

b) Hilting of unknown objects during run

c) Excess application of brake cylinder piston

d) Any of above

176. How can we save the bellows from twisting -

a) Regular cleaning of bellows

b) Regular cleaning and lubricating of bellows

c) Regular Over handling of bellows

d) All of above

177. If the hand brake indicator shows green even the hand brake is applied the reason will be -

a) Both indicators are defective

b) Parking brake continues having leakage

c) Roller valve of hand brake in operative

d) Above b and c both

178. The roller valve will not operate, if -

a) Parking brake container is leaky

b) Parking brake container is not charged

c) Setting of flex ball cable is not proper

d) Any of above.

179. What will you do if hand brakes are applied but brake indicators show green?

- a) Check the pressure in pressure tank
- b) Check the leakage of parking brake line
- c) Check the setting of cables
- d) All of above**

180. What will you do if hand brake indicator shows 'red' but the hand brakes are in release condition?

- a) Check the setting of flex ball cables
- b) Brakeage of flex ball cables
- c) Check the brake cylinder levers are bent or jammed
- d) All of above**

181. How can you know if the NRV is defective?

- a) By check FP pressure shown in gauge even only BP hose is connected -
- b) By check no pressure in reservoir after cut the FP pressure
- c) Above a & b**
- d) Can not be checked

182. What will happen if no secondary suspension is provided?

- a) Riding quality will be affected
- b) Vertical deflection will increase
- c) Wear and tear of parts will increase
- d) All above**

COUPLER/CBC

183. Which type of CBC is fitted in LHB coaches?

- a) E
- b) H**
- c) EH
- d) None of these

184. The CBC fitted on LHB coaches has _____ feature.

- a) Anti slipping
- b) Anti rotation
- c) Anti climbing**
- d) Anti Creeping

185. The tensile stroke of CBC is -

- a) 53-58 mm**
- b) 45-50 mm
- c) 60-65 mm
- d) 35-40 mm

186. The maximum buffing stroke of CBC is -

- a) 58 mm
- b) 75 mm
- c) **80 mm**
- d) 85 mm

187. Horizontal gathering range of CBC is -

- a) 100 mm
- b) **110 mm**
- c) 95 mm
- d) 119 mm

188. What is the means of Anti climbing?

a) Protection against climbing of one coach to another in case of accident.

b) Protection against telescopic of one coach to another in case of accident.

c) Both a & b d) None of these.

189. Oil is strictly prohibited on -

a) Uncoupling device of CBC b) Supporting device of CBC

c) Coupler head knuckle and locks of CBC. d) None of these.

190. Vertical gathering range of CBC is -

- a) **90 mm**
- b) 95 mm
- c) 85 mm
- d) 100 mm

191. What is the purpose of supporting device?

a) To support CBC weight.

b) To equalize vertical forces of CBC

c) Both a & b. d) None of these

192. During coupling operation the speed of vehicle should be -

- a) 3-5 kmph
- b) **2-3 kmph**
- c) 5 kmph.
- d) 6-7 kmph

193. During coupling operation the coaches should be -
a) On a curved track **b) On a straight track**
c) Either a or b. d) None of these
194. Two coaches will definitely coupled if -
a) The rotary lock completely down.
b) Inverted 'U' should be clear
c) Both a & b.
d) Uncoupling handle in down position.
195. The coupler should be checked by help of gauge at -
a) Every 4 months b) Every 6 months
c) Every 3 months d) Every 5 months
196. 'Jaw gap gauge test' is performed when knuckle in -
a) Closed position b) Open position
c) a & b d) None of above
197. During check of Jaw gap the gauge should be -
a) Pass through the gap.
b) Must not pass through the gap
c) None of above. d) Can not say
198. If the Jaw gap gauge passes through the gap -
a) Knuckle is needs to replace.
b) Lock assembly is need to replace
c) Either a or b d) None of above
199. Gauging of CBC is done when -
a) Knuckle in closed position.
b) Knuckle in open position.
c) Either a or b d) None of above
200. During check of contour of knuckle the contour gauge must
a) Not pass through knuckle.
b) Pass through knuckle
c) Either a or b d) None of above
201. The max height of supporting device should be
a) 190 mm b) 187 mm
c) 187.5 mm d) 189.5 mm
202. To keep the coupler in level, the maximum distance between centre of coupler and lower edge of socket should be

- a) 250mm **b) 260mm**
c) 240mm d) 255 mm
203. Maximum torque is required for supporting device bolts.
a) 400 NM **b) 200 NM**
c) 500 NM d) 550 NM
204. Maximum torque is required for base plate bolts.
a) 45 NM **b) 180-200NM**
c) 500 ±25 NM d) 55±50 NM
205. Max. thickness of shim required for increase of buffer height -
a) 3 mm b) 5 mm
c) 10 mm d) 15 mm

WRA & CDTS

206. What is the full form of CDTS?
a) Compact disk toilet system
b) Compress Disc tuning system
c) Control discharge toilet system
d) None of these
207. What is the full form of WRA?
a) wire relay appliances
b) water raising apparatus
c) Worker relief arrangement
d) None of these.
208. What is the function of Solenoid valve/Magnetic Valve?
a) To create air pressure
b) This is part of PLC
c) To control the entry of Air pressure
d) None of these.
209. How many openings 'Retention Tank' have .
a) One **b) two** c) Three d) four
210. Full form of P.L.C.
a) **Programmable Logic Controller**
b) Private Limited Company
c) Perforated Loco Component

- d)None of these.
- 211.CDTS works on -
- a)Automatically
 - b)Electrically & pneumatic pressure arrangement**
 - c)Manually
 - d)None of these.
- 212.Opening of Retention tank activate by -
- a)Double acting pneumatic cylinder
 - b)Automatically
 - c)Manually
 - d)None of these**
- 213.Upper opening of retention tank -
- a)Partial open manually
 - b)Always open**
 - c)Mostly closed
 - d)None
- 214.Lower opening of retention tank opens -
- a)When retention tank full of waste**
 - b)Predetermined speed and predetermine no. of cycle of flush.
 - c)It used to be always open.
 - d)None of these.
- 215.Function of pressurizer in CDTS -
- a)Delivers Pressurised water to flush the waste
 - b)To deliver the waste**
 - c)To create maximum pressure for system
 - d)None of these
- 216.Function of P.L.C in CDTS -
- a)To control the CDTS system
 - b)To record nos. of flush cycle as well as speed of vehicle
 - c)To record speed of vehicle**
 - d)None of these.
- 217.CDTS system is based on RDSO specification -
- a) MDTS : 090
 - b) MDTS : 089
 - c) NO. C 9906**
 - d) None
- 218.Full form of W.S.P -
- a)Whole System Process
 - b)Whole system procedure
 - c)Wheel sliding protection**

- d)None of these.
- 219.Retention tank outlet liding discharge valve remains open -It always open
- a)It open when train is in running position
 - b)Small period of time its open (1 minute or less)
 - c)None of these.**
- 220.Toilet bowl made up of -
- a)Cast Iron steel
 - b)IRSM 41
 - c)Stainless steel AISI 304**
 - d)None
- 221.PLC works on -
- a)240 V AC**
 - b)120 V AC
 - c)24 V DC
 - d)24 V AC
- 222.CDTS P.L.C. having -
- a)8 input & 4 output
 - b)4 input & 4 output
 - c)4 input & 8 output**
 - d)None of these
- 223.Solenoid valve works
- a)In running condition of train
 - b)In stationary condition of train
 - c)Based on signal from P.L.C.**
 - d)None of these
- 224.Upper Flapper valve usually open when
- a)Train is in stationary condition**
 - b)Train is in running condition
 - c)Operation of flush button
 - d)None of these.
- 225.The slides of upper flapper valve & lower slide valve connected with
- a)By means of link to two pneumatic cylinder
 - b)By means of wire
 - c)By some mechanical arrangement**
 - d)None of these.
- 226.“Fail Safe Mode” of CDTS works -
- a)In case of failure of Braking system
 - b)In case of failure of slide valve
 - c)In case of failure of loss of air &/or electricity**

d)None of these

227.In case of retention tank discharge cycle -

Train speed should be less than 10 Kmph

Train speed should be above 20 Kmph

Train speed should be above 30 Kmph

Train speed should be above 40 Kmph.

SUSPENSION & MISCELLANEOUS QUESTIONS

228.Length of bogie is -

a) 3535 mm

b) 3534 mm

c) 3600 mm

d) 3530 mm

229.Weight of bogie is -

a) 6t

b) 6.92t

c) 7.0 t

d) 8.0 t

230.Width of FIAT Bogie is -

a) 3030 mm

b) 3240 mm

c) 3040 mm

d) 3010 mm

231.Distance between centre of two bogies is -

a) 15000 mm

b) 14900 mm

c) 19500 mm

d) 15090 mm

232.Capacity of luggage room of WLRRM is -

a) 3.9 t

b) 5.0 t

c) 4.5 t

d) 6.0 t

233.Cooling capacity of LHB coach is -

a) 3.9 t

b) 22.5 KW

c) 22 KW

d) 25.0 KW

234.'T' type schedule indicates -

a) Weekly schedule

c) Monthly schedule

b) Trip schedule

d) six monthly

235. Max. limit of cracks permissible for roll link silent block in depth is

- a) 36.7 mm
- b) **35 mm**
- c) 39 mm
- d) 40 mm

236. New thickness of primary rubber pad is -

- a) **36.7 mm**
- b) 30.7 mm
- c) 35.7 mm
- d) 38.2 mm

237. Max. permissible limit of crack in depth for primary rubber pad is -

- a) Depth = 10 mm
- b) Depth = 15 mm
- c) **Depth = 18 mm**
- d) Depth = 25 mm

- 234.If both side lateral dampers removed from bogies -
a)The coach may derail
b)The centre pivots may displace
c)Bolster top plank may twist
d)Lateral socks may increase
- 235.In case of grease oozing, can be seen from -
a)At front sealing ring of bearing
b)At bottom plug of bearing housing
c)At backing ring of bearing
d)All of above.
- 236.How much grease is required for Timken make bearing?
a) 300 gm **b) 350 gm**
c) 500 gm d) 400 gm
- 237.What is the advantage of dampers?
a. Suspension may be increased.
b. Ridding index may be improved.
c. Comfort may be increased.
d. All of above
- 238.Compressed length of Yaw damper is -
a) 800 mm **b) 703 ±3 mm**
c) 700 ±3 mm d) 800mm ±3 mm
- 239.Damper eye has 0.5 + 0 1.0mm deep crack on rubber surface, it should be
a) Not replaced b) Replaced
c) Either a or b d) None
- 240.Extended length of yaw damper is -
a) 703±3 mm **b) 1083±3 mm** c) 700±3 mm d) 800±3 mm
- 241.Compressed length of primary vertical damper is -
a) 294±3 mm b) 434±3 mm c) 298±3 mm d) 325±3 mm
- 242.Extended length of primary vertical damper is -
a) 294±3 mm b) 434±3 mm c) 298±3 mm d) 325±3 mm
- 243.Stroke of primary vertical damper is -
a) 160 mm **b) 140 mm**
c) 60 mm d) 150 mm

244. Overall stroke of yaw damper is -
a) 260 mm **b) 380 mm**
c) 300 mm d) 280 mm
245. Compressed length of secondary vertical damper is -
a) 240 mm **b) 395± 3 mm**
c) 690 mm d) 325±3 mm
246. Extended length of secondary vertical damper is -
a) 240 mm **b) 635 ± 3 mm**
c) 240 mm d) 325±3 mm
247. Compressed length of lateral damper is -
a) 400 mm b) 360 ± 3 mm
c) 240 mm d) 325±3 mm
248. Extended length of secondary lateral damper is -
a) 395±3 mm **b) 545 ±3 mm**
c) 600 mm d) 325±3 mm
249. Overall stroke of secondary lateral damper is -
a) 240 mm **b) 185± 3 mm**
c) 690 mm d) 325±3 mm
250. Capacity of under frame water tank fitted in AC/3 tier.
a) 650 Ltr. **b) 685 Ltr.**
c) 400 Ltr. D) 500 Ltrs
251. Capacity of water tank provided in toilet for emergency -
a) 30 Ltr **b) 50 Ltr** c) 40Ltr d) 35 Ltr
252. The CBC fitted on LHB coaches has -
a) Only pulling action
b) Only buffing action
c) Both pull & Buffing action
d) Either a or b
253. What kind of maintenance is used for rolling stock is -
a) Break down maintenance
b) Preventive maintenance
c) Both a & b
d) Either a or b

254. Primary maintenance is a type of
- Break down maintenance
 - Preventive maintenance**
 - Safe to run examination
 - None of these
255. POH and IOH schedule of Rajdhani coaches is a type of -
- Break down maintenance
 - Preventive maintenance**
 - Both a & b
 - Either a or b
256. The maintenance done on pit line is -
- Secondary maintenance only
 - Primary maintenance only
 - Safe to run only
 - a & b of above only**
257. The capacity of axle of LHB coach is -
- | | |
|-------------------|---------|
| a) 13 t | b) 16 t |
| c) 16.25 t | d) 22 t |
258. "Yellow point" is provided on axle boxes indicated for
- The location where Roller bearing may crack
 - The location where actual temperature of bearing can be measure**
 - The No of axle boxes
 - None of these.
259. The main function of anti roll bar is -
- To allow rolling action of the coach
 - To prevent Rolling action of the coach**
 - To provided strength for bogie
 - To negotiate the track curve
260. Free movement of Anti Roll bar is depends upon -
- Condition of Grease in bracket
 - Condition of bearing at both ends
 - Condition of can of bearing
 - All of above**

261. The anti roll bar must be checked for -
- a) Any wear ness
 - b) Any cracks
 - c) Free movement
 - d) **All the above**
262. Condition of grease of anti roll bar should be checked during every -
- a) D1 schedule
 - b) D2 schedule
 - c) D3 schedule
 - d) **All the Above**
263. Grease of anti roll bar should be replace during every
- a) Trip schedule
 - b) D1 schedule
 - c) **D2 schedule**
 - d) D3 schedule
264. The torque required for axle end safety disc.
- a) **170 Nm**
 - b) 180 Nm
 - c) 200 Nm
 - d) 590 Nm
265. Wheel tapping is done to detect
- a) **Any hair crack**
 - b) Any material flow
 - c) Any wheel shelling
 - d) All the above
266. Shelling on a wheel set the reason may be
- a. WSP system hot function properly
 - b. Brake caliper may jammed
 - c. One or both brake cylinder may defective
 - d. **All above**
267. How much shelling on a wheel can be allowed -
- a) 50 mm
 - b) **30 mm**
 - c) 20 mm multiple
 - d) No shelling allowed
268. Control arm fitted with help of -
- a. 2 bracket safety plated & 6 bolt
 - b. **6 bracket, 6- safety plated & 6 bolt**
 - c. 2 bracket, 2 safety plate & 2 bolt
 - d. None of above
269. Torque required for centre pivot screw is -
- a) **170 Nm**
 - b) 200 Nm
 - c) 120 Nm
 - d) 70 Nm

270. Torque required for control arm bracket bolt is -

- a) 200 Nm
- b) 170 Nm**
- c) 250 Nm
- d) 100 Nm

271. During Air brake testing if pressure rise in BP & FP gauge it means -

- a. BP and FP gauge are defective
- b. Non return valve defective**
- c. D.V defective
- d. None of these

272. What size spanner is used to loose slack adjuster nut in case of KB make -

- a) AF 43
- b) AF 24/27
- c) AF 36**
- d) Any of above

273. The NRV is provided in

- a) BC line
- b) bP line
- c) FP line**
- d) All above

274. If the silent block of roll link is shifted one side the roll link -

- a) Not required to replace
- b) Must be replaced**
- c) Can be allowed for one trip
- d) None of these

275. If the silent block of traction link shifted to one side the traction link

- a) Must be replaced**
- b) Not required replacing
- c) Can be allowed for one trip
- d) None of these

276. What is the purpose to provide primary dampers -

- a) To minimize primary damping
- b) To support primary springs
- c) To improve primary suspension**
- d) All of above

277. What is the purpose to provided yaw dampers?

- a) To minimize rolling motion**
- b) To minimize scattering action of coach
- c) To improve riding index
- d) All the above

278.The gangway bridge mounting provided for -

- a. **To provide a bridge between two coaches**
- b. To protect vestibule doors
- c. Both a & b
- d. None of the these

279.The spring leaf is provided for -

- a.**To keep the fall plate in correct position**
- b.To hold the fall plate
- c.To support the fall plate
- d.Any of above

280.The supporting bracket of gangway bridge mounting should be checked for -

- a) Corroded
- b) Broken or loose
- c) Intact of all bolts
- d) All of above**

281.The items of gangway bridge mounting should be checked during

- a) Trip schedule
- b) D1 schedule
- c) D2 schedule**
- d) D3 schedule

282. Why only one lateral damper is provided on each bogie -
a. To reduce the total cost of coach
b. To reduce total weight of coach
c. To improve lateral damping of one side
d. It can control both side lateral movements
283. The movement of sliding doors can be adjusted by -
a) Adjusting of cylinder b) Adjusting of belt
c) **Adjusting of cylinder screw** d) All of above
284. The toothed belt is provided on
a. Only on sliding doors
b. Only on flap doors
c. Only on vestibule doors
d. On both vestibule and sliding doors
285. For free movement of sliding and vestibule doors
a. Oil should be provided on shaft
b. Grease should be provided on shaft
c. Vaseline should be provided on shaft
d. Any of above
286. How many emergency windows are provided on a coach -
a) Two b) Three **c) Four** d) Six
287. How can you identify the emergency windows
a. Provided with Red color handles
b. Provided with stickers on each emergency window
c. Above a & b
d. None of these
288. The FRP panels are -
a) **Fire retardant**
b) Fire proof
c) Fire friendly
d) All of above
289. Curtains and Rexene seats provided on LHB coaches are
a) Fiber made b) **Fire retardant** c) Fire proof d) All of above

290.How many under slung water tanks are provided on ACCN coaches -

- a) 2
- b) 3
- c) 4
- d) 5

291.How many under slung water tanks are provided on WLRRM coaches -

- a) 2
- b) 3
- c) 4
- d) 1

292.What is the capacity of under slung water tank provided on WLRRM -

- a) 630 ltr.
- b) 640 ltr.
- c) 400 ltr.
- d) 450 ltr.

293.What is the purpose to provide water level indicator on water tanks -

- a)**Availability of water**
- b)Capacity of water tank
- c)Location of water tank
- d)None of these

294.What is the purpose to provide sensor on water tank?

- a)Availability of water
- b)Capacity of water tank
- c)Location of water tank
- d)**To provide signal to pump control**

295.The sensor is provided on -

- a) All water tanks
- b) Two water tanks
- c) **One water tank**
- d) None of these

296.The pump control shows “EMPTY” even the water tank is full of water it means.

- a)**Sensor may defective**
- b)No water in the tank
- c)Both A & B
- d)None of these

297.If the primary spring of an axle box is weak it can be identified by -

- a) Measuring the distance between control arm top and bogie frame
- b) Measuring the distance between control arm bottom and bogie frame
- c) Measuring the deflection of primary damper**
- d) Measuring the distance between control arm lug and safety pin

298.If the luggage door top stopper is missing -

- a)The luggage door will not close
- b)The luggage door will not open
- c)The luggage door lock will not operate**
- d)Either A or B

299.If the dump valve continuous venting the reason may be –

- a)Dump valve is defective
- b) Dump valve electrical supply disturbed
- c)Dump valve stuck up in actuating position
- d)WSP is defective**

300.What is the corrective action if dump valve is venting continuously -

- a)Reset the WSP system
- b)Rearrange the WSP system
- c)Pull out dump valve connector and reconnect**
- d)Replace the dump valve

301.The dump valve works only during -

- a)Emergency braking
- b)Service application**
- c)Deference in speed of wheel
- d)Deference in diameter of wheel

302.If the speed of all axles is same and emergency braking is applied the dump valve will -

- a)Does not respond
- b)Definitely respond**
- c)Only one will respond
- d)May be respond

303.If the speed of all axles is Different and emergency braking is applied the dump valve will -

- a)Does not respond
- b)Definitely respond**
- c) Only one will respond
- d) May be respond

304.If the speed of all axles is Different in a coach during the emergency braking the dump valve will respond

- a)Whole the rake
- b)All dump valve of the coach**
- c)Particular dump valve of the coach
- d) None of these

305.The correct action of axle box feeling by manually is

- a)Hold the bare hand on the axle box for 5 minutes
- b)Hold the bare hand on the axle box for some times
- c)Instant touching of axle box by bare hand
- d)All of above**

306.If only one wheel set is required to change the correct action will be

- a)Roll out the both trolley
- b)Roll out the affected trolley
- c)Lift the coach with trolley
- d)Dismantle the wheel connections and Lift the coach with trolley**

307.What can you do to avoid jamming of brake caliper?

- a)Clean and lubricate the middle pin
- b)Clean and lubricate the brake shoe
- c)Periodic checks by rotate slack adjuster nut
- d)All of above**

308.The brake pads should be of same thickness on

- a)Both caliper of one wheel set
- b)All caliper of a trolley
- c)Each caliper
- d)All caliper of both trolley**

309.If difference in thickness of brake pads is appear, the reason could be -

- a. The brake pads fitted with different thickness purposely
- b. The calliper is running in jam condition
- c. The slack adjustment of brake cylinder is not proper

d. Any of the above

310. If the brake pads are wearing out in taper condition, the reason could be -

- a. The brake pads fitted with taper thickness purposely
- b. The caliper is running in jam condition
- c. The mounting bush of caliper unit is perished or cracked**
- d. Any of the above

311. If heavy scratch marks are appears on brake disc, the reason could be -

- a. The brake pads are worn out beyond condemning limit
- b. The brake pads are missing
- c. The foreign particle present between brake pads**
- d. All of above

312. If the brake pads are wearing out in taper condition, the correct action will be -

- Allow the brake pads in same condition
- Replace the brake pads immediately
- Replace the brake caliper unit immediately
- None of these**

313. If the drain cock of 125 ltr. Reservoir gets open or broken-

- The brakes of whole rake will fail**
- The 75 ltr reservoir will also drain
- The 75 ltr reservoir will not affect
- All of above

314. If NRV of FP line is defective -

- Both BP & FP will drain
- Only 125 ltr reservoir will drain
- Only 75 ltr reservoir will drain**
- Any of above

315.The NRV provided for -

To protect 125 ltr reservoir to drain

To protect 75 ltr reservoir to drain

To protect CR reservoir to drain

To protect 125,75 ltr reservoir & CR to drain

316.The yaw damper will be defective if -

Eyehole bush cracked badly

Any bolt is missing or broken

Damper badly leaky or physically damaged

All above

317.If one side yaw damper is Leakey -

It will affect the riding quality of coach

Coach may be tilted

Secondary spring may broken

All above

318.If Secondary vertical damper defective it will affect -

The quality of sec. suspension

The quality of riding index

The spring may breakage

Any of above

319.If secondary lateral damper got detective it will affect on-

The curve negotiation

The lateral movement of coach

The centre pivot suspension

Any of above

331. Checking of functionality of brake equipment and hand brake equipment in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
332. Carrying out of functional test on pneumatic brake system in
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
333. Checking of air hoses is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
334. Verifying the clearance between each pad and disc surface in
- a) D1 Schedule
 - b) D2 Schedule
 - c) D3 Schedule
 - d) D2 & D3**
335. Inspection of earthing equipment for wear of carbon bars -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D3 Schedule
 - d) D2 & D3**
336. Checking of crack, damage of spring is done in -
- a) D1 Schedule
 - b) D2 Schedule
337. Checking of dampers its rubber elements is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
338. Checking of bearing for hot and grease leakage is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
339. Checking of wheel profile gauge is done in
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
340. Inspection of Rotation Limiter is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule

341. Checking of tread diameter and wear of wheel profile is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule
 - d) D3 Schedule**
342. Inspection of grease oozing out of anti roll bar bearing is done in -
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule
343. Lubrication of all pins and bushes is done in -
- a) D1 Schedule
 - b) D2 & D3 Schedule**
 - c) D1, D2 & D3 Schedule
 - d) D3 Schedule
344. Inspection of coupler head, knuckle for damage is checked in
- a) D1 Schedule
 - b) D2 Schedule
 - c) D1, D2 & D3 Schedule**
 - d) D3 Schedule

345. Checking of tell tale recess for ensuring proper coupling is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

346. Checking of corridor connection for external damage and entry of foreign bodies is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

347. Cleaning of Air Filter is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule
- d) D2 & D3 Schedule**

348. Draining of Air tank is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

349. Inspection of seats, Luggage rack etc. is done in -

- a) D1 Schedule
- b) D2 & D3 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

350. Inspection of Leaf of sliding door is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

351. Lubrication of door seals with silicon paste is done in -

- a) D1 Schedule
- b) D2 Schedule
- c) D1, D2 & D3 Schedule**
- d) D3 Schedule

352. What is SS-I?

- a) Shop Superintendent-I
- b) **Shop Schedule-I**
- c) None of these
- d) All

353. Where shop schedule is carried out -

- a) In primary depot
- b) In sick line
- c) In work shops**
- d) none

354. Frequency of SS-I is -

- a) 18 month ± 30 days**
- b) 20 months ± 7 day
- c) 24 months ± 15 day
- d) D3 Schedule

355. With respect to Kms, Frequency of SS-I is -

- a) 5 Lakh Kms
- b) 6 Lakh Kms**
- c) 10 Lakh Kms
- d) 12 Lakh Kms

356. Frequency of SS-II is -

- a) 1 year
- b) 2 years
- c) 3 years**
- d) 5 years

357. With respect to Kms, Frequency of SS-II is -

- a) 5 Lakh Kms
- b) 6 Lakh Kms
- c) 10 Lakh Kms
- d) 12 Lakh Kms**

358. Frequency of SS-III is -

- a) 2 years
- b) 3 years
- c) 6 years**
- d) 5 years

359. With respect to Kms, Frequency of SS-III is -

- a) 10 Lakh Kms b) 15 Lakh Kms
c) **24 Lakh Kms** d) 20 Lakh Kms

Appendix

Different Type of LHB Coaches, Transportation Code, Weight and Number of Berths

S. N	TYPE OF COACH	CODE	No. of seat /berth	Weight in tons	
				Tare	Gross
1	AC FIRST CLASS SLEEPER- EOG)	LWFAC	24	40.87	43.34
2	AC FIRST CLASS SLEEPER- (SG)	LWGFAC	24	45.90	50.70
3	AC SECOND CLASS SLEEPER- EOG)	LWACCW	54	41.60	46.72
4	AC SECOND CLASS SLEEPER- (SG)	LWGACCW	54	48.00	55.04
5	AC THREE TIER CLASS SLEEPER- EOG)	LWACCN	72	43.00	48.80
6	AC THREE TIER CLASS SLEEPER- LACCN (SG)	LWGACCN	72	50.50	58.50
7	AC DOUBLE DECKER AC CHAIR CAR (EOG)	ACCC DOUBLE DECKER	128	48.5	65
8	AC HOT BUFFET CAR	LWCBAC	18	42.20	48.20
9	NON AC SECOND CLASS GS	LS	100	35.29	50.49
10	NON AC SECOND CLASS THREE TIER- (SG)	LWGSCN	78	36.28	42.91
11	NON AC- LUGGAGE CUM GUARD VAN(SG)	LGSLR	36	35.40	44.50
12	AC CHAIR CAR	LWFCZAC	56	42.27	48.51

	EXECUTIVE CLASS				
13	AC CHAIR CAR	LWSCZ AC	78	42.27	50.27
14	GENERATOR CUM LUGGAGE& BRAKE VAN	LWLRRM	5(4CR EWS+ 1GUA RD)	52.12	56.78

ANSWERS: -

GENERAL

- 1.- (b) 2.- (c) 3.- (b) 4.- (a) 5.- (c) 6.- (a) 7.- (c) 8.- (b) 9.- (b)
10.- (c) 11.- (b) 12.- (c) 13.- (b) 14.- (b) 15.- (c) 16.- (c) 17.- (b) 18.- (b)
19.- (c) 20.- (c) 21.- (c) 22.- (c) 23.- (b) 24.- (c) 25.- (c) 26.- (a) 27.- (c)
28.- (c) 29.- (c) 30.- (b) 31.- (c) 32.- (c) 33.- (d) 34.- (b) 35.- (c) 36.- (d)
37.- (a) 38.- (c) 39.- (a) 40.- 41.- (b) 42.- (c)

COACH/SHELL

- 1.- (c) 2.- (a) 3.- (c) 4.- (a) 5.- (b) 6.- (b) 7.- (c) 8.- (a) 9.- (b)
10.- (d) 11.- (c) 12.- (a) 13.- (d) 14.- (b) 15.- (c)

BRAKE SYSTEM

- 1.- (b) 2.- (c) 3.- (a) 4.- (b) 5.- (a) 6.- (b) 7.- (b) 8.- (c) 9.- (b)
10.- (b) 11.- (a) 12.- (b) 13.- (a) 14.- (b) 15.- (c) 16.- (c) 17.- (b) 18.- (c)
19.- (c) 20.- (b) 21.- (b) 22.- (b) 23.- (b) 24.- (a) 25.- (c) 26.- (c) 27.- (b)
28.- (d) 29.- (a) 30.- (c) 31.- (a) 32.- (c) 33.- (a) 34.- (b) 35.- (c) 36.- (c)
37.- (a) 38.- (d) 39.- (b) 40.- (d) 41.- (c) 42.- (d) 43.- (c) 44.- (a) 45.- (c)
46.- (c) 47.- (c) 48.- (b) 49.- (b) 50.- (c) 51.- (b) 52.- (a) 53.- (b) 54.- (a)
55.- (b) 56.- (b) 57.- (b) 58.- (b) 59.- (b) 60.- (b) 61.- (b) 62.- (a) 63.- (b)

- 64.- (b) 65.- (b) 66.- (a) 67.- (b) 68.- (a) 69.- (b) 70.- (d) 71.- (b) 72.- (b)
73.- (a) 74.- (b) 75.- (d) 76.- (b) 77.- (b) 78.- (b) 79.- (c) 80.- (a) 81.- (c)
82.- (c) 83.- (d) 84.- (b) 85.- (c) 86.- (b) 87.- (a) 88.- (d) 89.- (d) 90.- (b)
91.- (d) 92.- (a) 93.- (a) 94.- (d) 95.- (a) 96.- (c) 97.- (d) 98.- (c) 99.- (a)
100.- (a) 101.- (b) 102.- (d) 103.- (a) 104.- (c) 105.- (b) 106.- (b) 107.-
108.- (c) 109.- (d) 110.- (a) 111.- (d) 112.- (d) 113.- (c) 114.- (a)
115.- (b) 116.- (a) 117.- (a) 118.- (b) 119.- (d) 120.- (a) 121.- (c)
122.- (c) 123.- (d) 124.- (d) 125.- (c) 126.- (d)

COUPLER/CBC

- 1.- (b) 2.- (c) 3.- (a) 4.- (c) 5.- (b) 6.- (a) 7.- (c) 8.- (a) 9.- (c)
10.- (b) 11.- (b) 12.- (c) 13.- (c) 14.- (a) 15.- (b) 16.- (c) 17.- (a) 18.- (b)
19.- (c) 20.- (b) 21.- (b) 22.- (b) 23.- (a)

WRA & CDTS

- 1.- (c) 2.- (b) 3.- (c) 4.- (b) 5.- (a) 6.- (b) 7.- (d) 8.- (b) 9.- (a)
10.- (b) 11.- (c) 12.- (c) 13.- (c) 14.- (c) 15.- (c) 16.- (a) 17.- (c) 18.- (c)
19.- (a) 20.- (c) 21.- (c)

SUSPENSION & MISCELLANEOUS QUESTIONS

- 1.- (b) 2.- (b) 3.- (a) 4.- (b) 5.- (b) 6.- (b) 7.- (b) 8.- (b) 9.- (a)

- 10.- (c) 11.- (b)12.- (a) 13.- (b)14.- (d)15.- (b)16.- (a) 17.- (b)18.- (a)
19.- (a) 20.- (b)21.- (b)22.- (b)23.- (b)24.- (a) 25.- (b)26.- (b)27.- (b)
28.- (a) 29.- (c) 30.- (c) 31.- (b)32.- (b)33.- (d)34.- (c) 35.- (b)36.- (b)
37.- (d)38.- (d)39.- (d)40.- (c) 41.- (a) 42.- (a) 43.- (d)44.- (b)45.- (b)
46.- (a) 47.- (b)48.- (b)49.- (c) 50.- (c) 51.- (b)52.- (a) 53.- (c) 54.- (a)
55.- (a) 56.- (a) 57.- (d)58.- (c) 59.- (d)60.- (c) 61.- (c) 62.- (a) 63.- (c)
64.- (c) 65.- (a) 66.- (b)67.- (b)68.- (d)69.- (d)70.- (a) 71.- (d)72.- (c)
73.- (a) 74.- (c) 75.- (c) 76.- (d)77.- (c) 78.- (b)79.- (b)80.- (b)81.- (b)
82.- (d)83.- (d)84.- (d)85.- (d)86.- (d)87.- (c) 88.- (c) 89.- (d)90.- (a)
91.- (c) 92.- (d)93.- (d)94.- (b) 95.- (d)96

MAINTENANCE SCHEDULE

- 1.- (c) 2.- (a) 3.- (a) 4.- (c) 5.- (d) 6.- (c) 7.- (d) 8.- (d) 9.- (a)
10.- (c) 11.- (c) 12.- (c) 13.- (c) 14.- (c) 15.- (d)16.- (d)17.- (c) 18.- (c)
19.- (c) 20.- (c) 21.- (c) 22.- (d)23.- (c) 24.- (b)25.- (c) 26.- (c) 27.- (c)
28.- (d)29.- (c) 30.- (b)31.- (c) 32.- (d)33.- (b)34.- (c) 35.- (a) 36.- (b)
37.- (c) 38.- (d)39.- (c) 40.- (c)