

Syllabus for selection to the post of JE C&W in scale ₹9300-34800+4200 GP(L-6) against 25% PRQ**I. Coach maintenance activities**

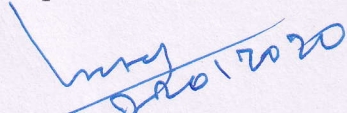
1. Various types of coaching stock in Indian Railways and salient features of ICF bogie and FIAT bogie.
2. IRCA Part IV and Passenger amenity items, refurbishing items and safety items in coaching stock.
3. Air brake system of ICF & LHB coaching stock.
4. Air brake testing of coaching stock.
5. Maintenance practices of ICF&LHB coaches.
6. Details of the items attended in PM, SM and OEM attention.
7. R&D activities carried out in coaching stock.
8. Various registers maintained in the coaching maintenance.
9. Procedure of IOH coaching stock.
10. Various ICF coach dimensions.
11. Bio Toilets maintenance.
12. Latest developments/modifications in coaching stock.
13. CMM (Coach Maintenance Module).
14. RPC-IV.
15. OBHS, MCC, CTS, Pest & Rodent control contracts - Monitoring.

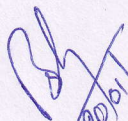
II. Wagon maintenance activities

1. Various types of wagons.
2. Procedure of examination pattern for different freight stocks followed in S.C.Railway.
3. IRCA Part- III and Procedure of ROH of BOXN, BCN,BOBRN& BLC etc.
4. Air brake system prevailing in BOXN, BCN and Air brake testing procedure of goods train.
5. The concepts on door operating mechanism prevailing in BOBR wagons.
6. Classification of categories of body repairs in BOXN wagons.
7. Various parameters to be recorded in a wagon in case of a derailment.
8. Latest modifications in BCNHL wagon doors.
9. Circumstances under which the BPC becomes invalid in CC premium and end to end rakes.
10. Various registers maintained in freight stock.
11. Various BOXN, BCN and BOBR wagon dimensions.
12. FMM (Freight Maintenance Module).
13. Latest developments/modifications in Freight stock.

III. General

1. Brake down attention facilities set up in SC division.
2. Duties of C&W Supervisors at accident site.
3. Brake binding on pass through trains and corrective & preventive action.
4. Train parting on pass through and corrective & preventive action.
5. Roller bearing failures in coaching & wagon stock and corrective & preventive action.
6. Basics of Official Language Act, 1963 and 1976.
7. Incentives given for implementing official language.


 22/01/2020
 Sr.DME/Co-ord/SC


 20/01/2020
 OS/C&W

SOUTH CENTRAL RAILWAY



Office of the Divl.Rly.Manager
Personnel Branch, 4th Floor
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Secunderabad.

No.SCR/P-SC/210(a)/25% JE PRQ(C&W)/EM.

Date: 18.05.2020.

**Sr.DME/Co-ord/SC, Sr.CDO/SC, Sr.CDO/HYB, CDO/SC, ADME/RDM
SSE/C&W/SC, HYB, SNF, KZJ, RDM, BPA, DKJ, BDCR, BIDR, PRLI.**

Sub:- Selection to the post of Junior Engineer (C&W) in Level 6 of 7th CPC Pay Matrix against 25 % Promotional Quota in Mech. (C&W) Dept. on SC Division.

Ref:- This office notification dated 04.05.2020.

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Further to the notification dated 04.05.2020 for formation of panel for 11 posts of JE/C&W against 25% promotional Quota, It is advised that with regard to the circulation of question bank the following terms and conditions are mentioned below.

In terms of Rly Bd's Lr No. E(NG)I-2006/PM I/34 dated 06.11.2006,CPO/SC's S.C.No 196/2006,updated question bank covering the complete syllabus is provided to the staff concerned or the same can be downloaded from the official **website of <http://www.scr.indianrailways.gov.in/about us>>> Divisions>>Secunderabad>>Perosnnel>>Notifications and Results.**

It is further advised that there will not be any mandatory limit of questions from the question bank.

The controlling officer/Supervisor to ensure that the question bank is circulated to all there eligible staff and postponement of selection due to non-circulation of question bank will not be entertained at a later date.

Question bank is only indicative in nature but not exhaustive. The examinees are advised to update their knowledge with latest rules / circulars / policies.

The question banks so prepared should be updated regularly in accordance with the changing technology and job requirements.

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DPO/SC

for Sr. Divisional Personnel Officer /SC.

C/- Ch.OS/Selection Cell for information.
C/- Ch.OS/PNM.

for Sr. Divisional Personnel Officer /SC.

o/c
18/05/2020

ICF

- The standard wheel gauge of passenger BG coaching stock is
 - $1600 \pm 2_1$ mm
 - $1601 \pm 2_1$ mm
 - $1600 \pm 2_2$ mm
 - $1600 \pm 1_1$ mm
- Length over body of ICF BG coaches is
 - 2334 mm
 - 2310 mm
 - 21337 mm
 - 22132 mm
- Rigid wheelbase of ICF BG trolley is –
 - 2896 mm
 - 2803 mm
 - 2990 mm
 - 2837 mm
- At what interval, the intensive cleaning of any coach is done?
 - Three month
 - One month
 - Six month
 - Eight month
- What is the interval for cleaning coach water tank?
 - 15 days
 - 25 days
 - one month
 - two month
- What is the period for the POH of any OCV attached to a passenger train?
 - Nine month
 - 12 month
 - 18 month
 - 24 month
- What shall be the period for POH for a coach attached to Mail/ Express train?
 - 9 month
 - 12 month
 - 18 month
 - 24 month
- What shall be the period for POH of PCV attached with any other train other than mail/ Express train?
 - 9 month
 - 12 month
 - 18 month
 - 24 month
- The other name of pilot valve is –
 - PESAD
 - PEASD
 - PDEAS
 - EPASD
- What is the period for POH of departmental coach?
 - 24 month
 - 36 month
 - 42 month
 - 60 month
- What is the Transportation code of inspection carriage (Administrative)?
 - AR
 - CR
 - IC
 - RA
- As per policy circular No-4 secondary examination of mail/express has been skipped on round trip upto-
 - 800 Km
 - 1500 Km
 - 3500 Km
 - 1800 Km
- In coach, the load transmission takes place through -
 - Center pivot
 - Bogie
 - Side bearer
 - Wheel
- The 'K' type composite brake block should be changed, if worn out beyond-
 - 10 mm
 - 12 mm
 - 20 mm
 - 22 mm
- Std. packing pieces of ICF coach is –
 - 13, 14, 26 mm
 - 13, 22, 28 mm
 - 13, 26, 38, 48 mm
 - 22, 26, 32 mm
- Coaching stock accident involving human life enquiry by-
 - CME
 - CRS
 - Sr.DME
 - ADRM

17. Yellow strips on end body of ICF indicate is –
- (a) Anti telescopic (b) Dual brake
(c) In built air brake (d) Non-Anti telescopic
18. For finding what defect UST is done?
- (a) Internal crack (b) external crack
(c) Air flow crack (d) None of the above
19. What is Codal life of steel bodied coaches (Including dining / pantry cars) -
- (a) 40 years (b) 30 years
(c) 25 years (d) 22 years
20. Codal life of light utilization categories of coaches is -
- (a) 40 years (b) 30 years
(c) 25 years (d) 20 years
21. All newly built coaches shall be given IOH after -
- (a) One month (b) six month
(c) one year (d) two year
22. The length over buffer of ICF/ RCF coach is -
- (a) 22297 mm (b) 22299 mm
(c) 21996 mm (d) 21030 mm
23. Over all width of ICF/ RCF coach is -
- (a) 3251 mm (b) 3250 mm
(c) 3245 mm (d) 3991 mm
24. The height from rail level of ICF/ RCF coach is -
- (a) 3886 mm (b) 4025 mm
(c) 3991mm (d) 3251 mm
25. 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
26. How many emergency windows provided in AC ICF/RCF coaches are –
- (a) Two (b) Three
(c) Four (d) Five
27. 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
28. What do you mean by FRP?
- (a) Fibre recalling panel (b) Fibre reinforced plastic
(c) First reduction plastic (d) Fine reinforced panel
29. 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
30. 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
31. Standard buffer projection from Headstock is –
- (a) 650 mm (b) 635 mm
(c) 620 mm (d) 660 mm
32. Minimum Permissible buffer projection from Headstock is –
- (a) 635 mm (b) 605 mm
(c) 590 mm (d) 584 mm

33. The diameter of buffer plunger face of ICF coaches is –
- (a) 552 mm (b) 457 mm
(c) 493 mm (d) 510 mm
34. What is the distance between two buffers at one end?
- (a) 1952 mm (b) 1976 mm
(c) 1956 mm (d) 1992 mm
35. 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
36. The ICF buffer plunger is made of –
- (a) Mild steel (b) Cast iron
(c) Cast steel (d) Aluminum Alloy
37. 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
38. The draw & buffing force transmission in coach is through -
- (a) Centre pivot (b) Bogie
(c) Side bearer (d) Wheel
39. The Ineffective Percentage allowed for AC Coaches is
- (a) 10% (b) 11%
(c) 8% (d) 12%
40. Maximum hauling capacity of H type CBC is -
- (a) 7000 ton (b) 8000 ton
(c) 9000 ton (d) 10000 ton
41. 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
42. 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
43. 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
44. 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
45. Nominal thickness of buffer casing body wall is –
- (a) 9.50 mm (b) 10.50 mm
(c) 11.50 mm (d) 13.50 mm
46. 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
47. What is the weakest link of the 'H' type tight lock center buffer coupler?
- (a) Draft gear (b) Knuckle

- (c) Lock (d) Yoke pin
48. Destruction tube is provided inside the –
 (a) Buffer (b) Head stock
 (c) under sole bar (d) None
49. Capacity of air reservoir (AR) of the coach is –
 (a) 150 Lit. (b) 200 Lit
 (c) 250 Lit. (d) 300 Lit.
50. '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
51. 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
52. In a passenger train 'e' dimension is –
 (a) 378 ± 20 mm (b) 375 ± 25 mm
 (c) 370 ± 10 mm (d) 380 ± 20 mm
53. 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
54. 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
55. 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
56. During full service application, Brake pipe pressure is dropped to –
 (a) 2.0 Kg/cm² (b) 1.0 Kg/cm²
 (c) 3.0 Kg/cm² (d) 1.5 Kg/cm²
57. At originating station the brake power percentage for mail/express train should be –
 (a) 85% (b) 90%
 (c) 100% (d) 75%
58. Cut off angle cock can be fitted to-
 (a) FP (b) BP
 (c) BP&FP both (d) None of the above
59. 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
60. What is the diameter of bogie mounted brake cylinder?
 (a) 220 mm (b) 210 mm
 (c) 203 mm (d) 200 mm
61. The brake cylinder diameter of conventional air brake system is –
 (a) 205 mm (b) 355 mm
 (c) 325 mm (d) 305 mm
62. The rate of air leakage in single car testing should not be more than –
 (a) 0.02 Kg/cm²/min (b) 1.0 Kg/cm² /min
 (c) 0.2 Kg/cm²/min (d) 0.1 Kg/cm² /min
63. In emergency application the brake cylinder pressure rises from 0-3.6 kg/cm² in –
 (a) 15-20 sec (b) 5-10 sec

- (c) 3-5 sec (d) 8-10 sec
64. Check valve with choke allows air from –
 (a) BP to FP (b) FP to CR
 (c) FP to AR (d) AR to BC
65. 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
66. What is the pressure of control reservoir in coaching trains?
 (a) 6.0 Kg/cm² (b) 5.0 Kg/cm²
 (c) 6.0 to .2 Kg/cm² (d) 4.8 Kg/cm²
67. In coaching trains, auxiliary reservoir is charged to -
 (a) 5.0 Kg/cm² (b) 6.0 Kg/cm²
 (c) 4.8 Kg/cm² (d) 5.5 Kg/cm²
68. Reduction in BP pressure for minimum application is -
 (a) 1.0 to 1.5 Kg/cm² (b) 0.8 to 1.0 Kg/cm²
 (c) 0.5 to 0.8 Kg/cm² (d) 0.1 to 0.5 Kg/cm²
69. Reduction in BP pressure for service application is -
 (a) 1.0 to 0.5 Kg/cm² (b) 1.0 to 1.5 Kg/cm²
 (c) 0.5 to 0.8 Kg/cm² (d) 0.8 to 1.0 Kg/cm²
70. Reduction in BP pressure for full service application is -
 (a) 1.0 to 1.5 Kg/cm² (b) 0.8 to 1.0 Kg/cm²
 (c) 0.5 to 0.8 Kg/cm² (d) 0.1 to 0.5 Kg/cm²
71. Reduction in BP pressure for emergency application is -
 (a) 1.0 to 1.5 Kg/cm² (b) 1.5 to 3.8 Kg/cm²
 (c) 0.5 to 0.8 Kg/cm² (d) 3.8 to 5.0 Kg/cm²
72. 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
73. The three-branch pipe attached to common pipe bracket, where the middle pipe lead to
 (a) CR (b) DV
 (c) BC (d) AR
74. During brake release, air from BC goes to
 (a) AR (b) CR
 (c) DV (d) Atmosphere
75. 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
76. The type of dirt collector, used in bogie mounted passenger coach is -
 (a) 2- way (b) 4-way
 (c) 3-way (d) single way
77. When DV is working condition the position of DV handle is –
 (a) Horizontal (b) Inclined
 (c) Vertical (d) Parallel
78. The en-route brake power percentages of passenger BG coaching train is –
 (a) 85% (b) 90%
 (c) 100% (d) Not specified
79. 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
80. What should be the effective maximum pressure in brake cylinder during full service application is
- (a) $3.6 \pm 0.1 \text{ Kg/cm}^2$ (b) $3.7 \pm 0.1 \text{ Kg/cm}^2$
(c) $3.8 \pm 0.1 \text{ Kg/cm}^2$ (d) $4.1 \pm 0.1 \text{ Kg/cm}^2$
81. DV is directly mounted on -
- (a) AR (b) Brake pipe
(c) Brake cylinder (d) Common pipe bracket
82. 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
83. 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
84. Auxiliary reservoir is assisting in –
- (a) Charging of DV (b) Charging of BP
(c) Sending air to BC (d) Charging of CR
85. 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
86. In air brake system, brake should apply when the rate of drop of air pressure in BP is –
- (a) $0.6 \text{ Kg/cm}^2/\text{min}$ 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
87. 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
88. 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

89. Which equipment are not charged, when DV is isolated
- Control reservoir and brake cylinder
 - Brake cylinder
 - Control reservoir auxiliary reservoir
 - Auxiliary reservoir and brake cylinder
90. The vent hole is provided in the cut off angle cock to (when angle cock is closed)
- Exhaust air pressure of air hose into atmosphere
 - The amount of vacuum
 - To arrest air pressure from air hose
 - None of the above
91. What is the thickness of roof sheet in ICF coach?
- 2.1 mm
 - 1.8 mm
 - 1.9 mm
 - 1.6 mm
92. Water tank capacity of ICF coach is –
- 1600 litre
 - 1500 litre
 - 1800 litre
 - 2000 litre
93. Under shung tank capacity of roof mounted AC coaches fitted with WRA system is –
- 1600 Litre
 - 1700 Litre
 - 1800 Litre
 - 2000 Litre
94. When did first Shatabdi Express train
- 1986
 - 1990
 - 1988
 - 1987
95. Minimum and Maximum air pressure required for WRA is –
- 0.35 Kg/cm²&0.75 Kg/cm²
 - 0.45 Kg/cm²& 0.5 Kg/Cm²
 - 0.55 Kg/cm²& 0.6 Kg/cm²
 - 0.65 Kg/cm²& 0.75 Kg/cm²
96. Sole bar of ICF coach consists of –
- Z section
 - Y section
 - I section
 - U section
97. What capacity of the equalizing stays of the shatabdi Exp.?
- 22 tons
 - 16 tons
 - 20 tons
 - 14 tons
98. What is amount of the oil per side bearer in ICF coaches?
- 1.2 letter
 - 2.5 letter
 - 1.6 letter
 - 2.2 letter
99. What is the distance between side bearers of ICF coach?
- 1560 mm
 - 1600 mm
 - 1590 mm
 - 1610 mm
100. What is the oil level in dashpot?
- 50.0 mm
 - 75.0 mm
 - 40.0 mm
 - 90.0 mm
101. What should be the interval of check the dashpot oil in mail/Express train?
- 15 days
 - one month
 - 25 days
 - two month
102. What is the amount of oil per dashpot in 40-mm depth in modified guide arrangement?
- 1.6 Litre
 - 2.2 Litre
 - 2.5 Litre
 - 1.9 Litre
103. What is the interval of check the side bearer oil?

- (a) One month (b) 25 days
(c) 15 days (d) 10 days
104. In bogie mounted air brake systems, the No of brake cylinder in a coach are
(a) 8 (b) 6
(c) 2 (d) 4
105. The weight of the coach is transferred through -
(a) Side bearer (b) Equalizing stay
(c) Helical spring (d) Bolster
106. Center pivot pin does not transmit any -
(a) Horizontal load (b) Tractive
(c) Breaking force (d) Vertical force
107. New dimension of side bearers wearing plate is -
(a) 10.0 mm (b) 12.0 mm
(c) 14.0 mm (d) 16.0 mm
108. 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
109. Condemning size of side bearer wearing plate is -
(a) 10.0 mm (b) 9.0 mm
(c) 8.50 mm (d) 7.50 mm
110. Newly dimension of side bearer wearing pieces is -
(a) 45.0 mm (b) 44.0 mm
(c) 43.0 mm (d) 42.0 mm
111. 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
112. 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
113. 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
114. Which type brake system, external slack adjuster have been eliminated?
(a) BMBC (b) UMBS
(c) BMBS & UMBS (d) None of the above
115. 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
116. 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
117. 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
118. 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
119. Which type of grease used in roller bearing in ICF coach?
(a) Servo –20 (b) Lithium base
(c) Servo –40 (d) Graphite –20
120. 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
121. 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
122. LHB coaches are provided with what type of bearing?
(a) Spherical type (b) Plain bearing
(c) CTRB (d) None of the above
123. In air brake coach, PEAV & PEASD is connected to branch pipe is –
(a) FP (b) BP
(c) BC (d) DV
124. The pulling force required for alarm chain testing should not be more than -
(a) 12 kg (b) 10 kg
(c) 20 kg (d) 30 kg
125. What is the choke size of PEAV
(a) 4.0 mm (b) 5.0 mm
(c) 6.0 mm (d) 8.0 mm
126. 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
127. 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
128. The full name of PEAV is –
(a) Power energy valve (b) Passenger entrance valve
(c) Passenger emergency alarm valve (d) Pipe emergency valve
129. 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
130. What is the free height of 16.25 tons axle box spring?
(a) 360 mm (b) 365 mm
(c) 375 mm (d) 380 mm
131. What is the free height of non-AC coach axle box spring?
(a) 355 mm (b) 360 mm
(c) 367 mm (d) 370 mm
132. Free height of all non-AC ICF type axle box spring is -
(a) 375 mm (b) 372 mm
(c) 360 mm (d) 315 mm
133. Free height of AC ICF type bolster coil spring is -

- (a) 375 mm (b) 385 mm
(c) 400 mm (d) 416 mm
134. What is colour code of 'A' group coil spring is
(a) Yellow (b) Green
(c) oxford blue (d) White
135. What is colour code of 'B' group coil spring is -
(a) Oxford blue (b) White
(c) Green (d) Yellow
136. What is colour code of 'C' group coil spring is -
(a) Oxford blue (b) White
(c) Green (d) Yellow
137. Piston stroke (coach) of bogie mounted brake cylinder is –
(a) 28 mm (b) 32 mm
(c) 36 mm (d) 38 mm
138. 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
139. 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
140. 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
141. 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
142. The axle load of AC coaches is –
(a) 22.0 tons (b) 16.25 tons
(c) 15.0 tons (d) 14.50 tons
143. Axle load capacity of generator (WLLRM) coach is –
(a) 16.0 tons (b) 16.25 tons
(c) 15.0 tons (d) 20.30 tons
144. The use of 13 tons axle load bogie is in –
(a) PVH (b) AC
(c) Power Car (d) Non AC
145. 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
146. High speed ICF coach condemning flange thickness is –
(a) 14.0 mm (b) 13.0 mm
(c) 22.0 mm (d) 10.0 mm
147. Lateral movements of wheels are controlled by –
(a) Axle Guide (b) Journal center
(c) roller bearing (d) Desh pot
148. Bogie wheelbase of ICF/ RCF all coil bogies are -

- (a) 2896 mm (b) 2986 mm
(c) 2886 mm (d) 2997 mm
149. Min shop issue size of ICF solid wheel is –
(a) 837 mm (b) 870 mm
(c) 854 mm (d) 8746 mm
150. Flange thickness of new BG wheel coach is –
(a) 28.0 mm (b) 28.50 mm
(c) 29.50 mm (d) 27.50 mm
151. 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
152. 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
153. 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
154. In ICF coaches, the maximum height from rail level top of the roof is
a) 4025 mm b) 3991 mm
c) 3786mm d) 3886 mm
155. Over all width of ICF coach is
a) 3251 mm b) 3250 mm
c) 3245 mm d) 3991 mm
156. Full form of BP is
a) Bypass b) Brake pipe
c) Bent pipe d) None of above
157. Full form of BC is
a) Brake control b) Beside coach
c) Brake cylinder d) Branch cylinder
158. Full form of AR is
a) Axle on Road b) Axle reservoir
c) Auxiliary Reservoir d) None of the above
159. The expanded name of PEAV is
a) Power energy valve b) Passenger entrance valve
c) Passenger emergency alarm valve d) Passenger Emergency Valve
160. Full name of ACP is
a) Air condition pipe b) Air cooler pipe
c) Alarm chain-pull d) Air cylinder piston
161. Full name of PEASD is
a) Passenger emergency alarm shutdown
b) Passenger emergency alarm signalling device
c) Passenger entrance Signal device
d) Passenger emergency admission signal device
162. POH periodicity of new ICF coach is _____ months
a) 12 b) 18
c) 9 d) 24
163. POH periodicity of old ICF coach is _____ months

- a) 12
c) 9
- b) 18
d) 24
164. IOH periodicity of old ICF coach is _____ months
- a) 12
c) 9
- b) 18
d) 24
165. IOH periodicity of new ICF coach is _____ months
- a) 12
c) 9
- b) 18
d) 24
166. Under which schedule, the manual brake release test is carried out on every coach of the rake?
- a) C' schedule
c) 'B Schedule
- b) A' schedule
d) Special schedule
167. Under which schedule, testing and calibration of the pressure gauge (for SLR/guard compartment) is carried out?
- a) C' schedule
c) B' Schedule
- b) A' schedule
d) Special schedule
168. Under which schedule is single car test carried out?
- a) C' schedule
c) B' Schedule
- b) A' schedule
d) None of above
169. Roller bearings used in ICF coaches
- a) Cartridge Tapered Roller Bearing
c) Cylindrical Roller Bearing
- b) Spherical Roller bearing
d) Plain Roller bearing
170. Crown clearance on Jana Shatabdhi non AC coach
- a) 45 +/- 3 mm
c) 45 +2- 3 mm
- b) 45 +/- 2 mm
c) 45 +3- 3 mm
171. Decode NFTC
- a) Natural Fibre Thermoset concrete Material
b) Natural Ferrous Thermoset composite Material
c) Neutral Fibre Thermoset composite Metal
d) Natural Fibre Thermoset composite Material
172. Maximum permissible speed during rolling in of a train
- a) 30 KMPH
c) 35 KMPH
- b) 40 KMPH
d) 25 KMPH
173. Clearance between axle box lug and the bottom of safety strap
- a) 40 mm
b) 35 mm
- b) 42 mm
d) 45 mm
174. Man hours required for IOH of a coach
- a) 257 man hours
c) 255 man hours
- b) 254 man hours
d) 256 man hours
175. What do you understand by spring stiffness
- a) Load per unit deflection
c) Load per unit length
- b) Length per unit deflection
d) None of the above
176. Working piston stroke of Bogie mounted brake cylinder
- a) 60+10 mm
b) 70+/-10 mm
- b) 32 mm
c) 32+/-2 mm
177. In Bogie mounted brake cylinder, to what angle the adjusting screw rotates for each stroke to take up slack
- a) 20 degree
- b) 30 degree

- c) 35 degree
d) 25 degree
178. In bogie mounted brake system at what wheel diameter the brake gear connection should be shifted to next inner hole of connecting link
a) 838 mm
b) 839 mm
c) 837 mm
d) 833 mm
179. What is the brake cylinder pressure release time from 3.8 kg/cm² to 0.4 kg/cm² with single car test rig as per IRCA part IV
a) 15 to 20 seconds
b) 15 to 25 seconds
c) 10 to 20 seconds
d) 45 to 60 seconds
180. What is the drop in brake pipe pressure during sensitivity test with SCTR
a) 0.3 kg/cm² in 60 seconds
b) 0.6 kg/cm² in 6 seconds
c) 0.3 kg/cm² in 6 seconds
d) None of the above
181. What is the insensitivity port diameter provided for single car test rig
a) 0.3 mm
b) 0.3 cm
c) 0.2 mm
d) 0.1 mm
182. Diameter of bogie mounted brake cylinder
a) 211.2 mm
b) 202.3 mm
c) 203.2 mm
d) 253.2 mm
183. Pull required to operate alarm chain apparatus
a) 7 to 10 kg
b) 6 to 10 kg
c) 6 to 10.5 kg
d) none of the above
184. Angle to which split pins and cotters to be split
a) 46°
b) 43°
c) 35°
d) 45°
185. Condemning thickness of side bearer hard wearing plate in ICF bogie on express train
a) 8.5 mm
b) 8.4 mm
c) 1.5 mm
d) 7.5 mm
186. Maximum diametrical clearance between guide bush and dash pot
a) 1.4mm
b) 1.6mm
c) 2.6mm
d) 1.2mm

LHB

- 187) What is the full form of LHB?
a) Lower heavy Bogie
b) Linke Hofmann-Busch
c) Low height Bogie
d) None of these
- 188) What is the length over body of LHB coaches?
a) 23570 mm
b) 23545 mm
c) 23540 mm
d) 23565 mm
- 189) What is the maximum width over body of LHB coaches?
a) 3260 mm
b) 3240 mm
c) 3456 mm
d) 2356 mm
- 190) 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
- 191) 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
- 192) 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
- 193) 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
- 194) What is the wheel gauge of LHB wheel?
a) 1676 mm
b) 1600±21 mm
c) 1610 mm
d) 1676 ±21 mm
- 195) What is the new wheel diameter of LHB wheel?
a) 910 mm
b) 915 mm
c) 912 mm
d) 725 mm
- 196) What is the condemning limit of LHB wheel diameter?
a) 813 mm
b) 839 mm
c) 845 mm
d) 854 mm
- 197) How many brake disc on one wheel set?
a) One
b) Two
c) Three
d) Four
- 198) 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
- 199) What is the thickness of wheel flange in LHB coaches?
a) 24 mm
b) 26.5mm
c) 26 mm
d) 25 mm
- 200) What is the thickness of brake disc?
a) 100 mm
b) 110 mm
c) 105 mm
d) 108 mm
- 201) What is the diameter of brake disc?
a) 650 mm
b) 630 mm
c) 640 mm
d) 645 mm
- 202) What is diameter of wheel axle of LHB Coach?
a) 172 MM
b) 170 MM

- c) 153 MM
203) How many make CTBUs are used on LHB Coaches?
a) 1
c) 3
- d) 165 MM
b) 2
d) 4
- 204) What is the maximum temperature limit for TIMKEM CTBU?
a) 90 °C
c) 85 °C
- b) 80 °C
d) 87 °C
- 205) How many types of shock absorbers are used in LHB Coaches?
a) 6
c) 4
- b) 5
d) 3
- 206) How many shock absorbers are used in LHB Coaches?
a) 10 nos.
c) 18nos.
- b) 8nos.
d) 12 nos.
- 207) What is the name of shock absorber connected between bogie and car body?
a) Primary
c) Yaw.
- b) Secondary
d) None of these.
- 208) 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
- 209) What is the length over CBC of LHB Coaches?
a) 23590 mm
c) 24095 mm
- b) 24000 mm
d) 24225 mm
- 210) What is the height over roof of LHB Coaches?
a) 4200 mm
c) 4039 mm
- b) 4390 mm
d) 4190 mm
- 211) Approx. "Riding Index" of LHB Coach -
a) 3.5
c) 2.5
- b) 3.8
d) 3.0
- 212) Distance between inner wheels of LHB -
a) 12340 mm
c) 11545 mm
- b) 10390 mm
d) 12010 mm
- 213) Distance between centre pivots -
a) 13780 mm
b) 14900 mm
- b) 14030 mm
d) 14350 mm
- 214) Maximum permissible buffer drop under gross load and worn condition is -
a) 65 mm
c) 75 mm
- b) 70 mm
d) 80 mm
- 215) Trip Maintenance Schedule i.e. D1 of LHB Coach is done -
a) 7±1 days
c) Every Trip
- b) 15 days
d) 30 days
- 216) D2 Maintenance Schedule of LHB Coach is done -
a) 30 days ± 1days
c) 30 days ± 5days
- b) 30 days ± 3days
d) 30 days ± 7days
- 217) D3 Maintenance Schedule i.e. of LHB Coach is done -
a) 150 days ± 1days
c) 180 days ± 15 days
- b) 120 days ± 3days
d) 90 days ± 7days
- 218) 'SS-I' (Shop Schedule-1) of LHB coach is done -
a) 1 year
c) 1.5 year/ 6 lacs Kms earned whichever is earlier
d) 3 years/ 6 lacs Kms earned whichever is earlier
- b) 2 years
- 219) 'SS-II' of LHB coach is done -

- a) 1 year
c) 1.5 year/ 6 lacs Kms earned whichever is earlier
d) 3 years/ 12 lacs Kms earned whichever is earlier
- 220) On KM basis 'SS- I' of LHB coach is done -
a) 5 lakh
c) 9 lakh
- 221) On KM basis 'SS -II' of LHB coach is done -
a) 5 lakh
c) 12 lakh
- 222) 'SS -III' of LHB coaches is done -
a) 5 years
c) 3 years/ 12 lacs Kms earned whichever is earlier
d) 6 years/ 24 lacs Kms earned whichever is earlier
- 223) 'IOH' of LHB coaches is done -
a) 18 months
c) 9 months
- 224) Codal life of LHB coaches is -
a) 30 years
c) 35 years
- 225) Brake power of air brake for Rajdhani coaches from out station is -
a) 90%
c) 85%
- 226) Length of car body of LHB coach is -
a) 24000 mm
c) 2400 mm
- 227) To restrict vertical sliding between engine and power car, the device is known as -
a) Vertical slide protector
c) Protecting device
- 228) What is the wheel base of LHB bogie?
a) 2440 mm
c) 2560 mm
- 229) Side wall of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304M)
c) Ferritic steel (SS-409M)
- 230) Roof sheet of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304)
c) Ferritic steel (SS-409)
- 231) End wall of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304M)
c) Ferritic steel (SS-409M)
- 232) Trough floor of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304)
c) Ferritic steel (SS-409)
- 233) Cross members of under frame of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304)
c) Ferritic steel (SS-409)
- 234) Thickness of Roof sheets of LHB coaches are -
a) 2mm & 2.75
c) 3mm & 3.25 mm
- 235) Thickness of Corrugated sheets of LHB coaches are -
a) 2 mm
c) 1.25 mm
- 236) 8. Thickness of side wall sheets of LHB coaches are -
- b) 2 years
b) 6 lakh
d) 12 lakh
b) 6 lakh
d) 24 lakh
b) 4 years
b) 12 months
d) 14 months
b) 25 years
d) None of the above
b) 100%
d) 95%
b) 23540 mm
d) 24430 mm
b) Restrictor
d) None of these
b) 2696 mm
d) 2570 mm
b) IRSM-41
d) IRSM-44
b) IRSM-41
d) IRSM-44
b) IRSM-41
d) IRSM-44
b) IRSM-41
d) IRSM-44
b) IRSM-41
d) IRSM-44
b) IRSM-41
d) IRSM-44
b) 1.25 mm & 1.7 mm
d) 2.75 mm & 2.5 mm
b) 3 mm
d) 2.5 mm

- a) 2 mm
c) 1.25 mm
- 237) Sole bar of LHB Coaches are manufactured from -
a) Austenitic steel (SS 304)
c) Ferritic steel (SS-409)
- 238) Thickness of sole bar of LHB coaches is -
a) 2 mm
c) 4 mm
- 239) Thickness of Roof flange of LHB coaches is -
a) 2 mm
c) 4mm
- 240) Material of yaw damper bracket of LHB Coaches is -
a) Cast steel
c) Ferritic steel (SS-409)
- 241) Yaw damper is fitted on -
a) Sole bar
c) Under frame
d) Between under frame and bogie frame
- 242) The Fire Extinguisher used in AC LHB coaches is -
a) Foam type
d) CO2 type
- 243) Fire Extinguisher should be refilled -
a) Every month
c) After 1 year
- 244) Torque value of brake caliper mounting bolt is -
a) 200 NM
c) 150 NM
- 245) What is the principle of brake system used on LHB coaches?
a) Single pipe air brake system
c) Twin pipe with disc brake air brake system
- 246) What is the capacity of AR tank?
a) 200 ltrs
c) 125 ltrs
- 247) 125 Ltr AR tank used for -
a) Toilet purpose
c) Standby
- 248) 75 Ltr AR tank used for -
a) Toilet purpose
c) Standby
- 249) What is the capacity of CR TANK?
a) 5.0 Liters
c) 9.0 Liters
- 250) Bore size of main BP and FP pipe is -
a) 45 mm bore
c) 20 mm bore
- 251) Diameter of BC line branch pipe is -
a) 25 mm
c) 18 mm
- 252) Diameter of brake indicator pipe is -
a) 18 mm
c) 15 mm
- 253) When brake indicator shows 'Red', the brake will be -
- b) 3 mm
d) 2.5 mm
- b) IRSM-41
d) IRSM-44
- b) 5 mm
d) 6 mm
- b) 5 mm
d) 6 mm
- b) IRSM-41
d) IRSM-44
- b) Bogie
- b) DCP Type
d) None of these
- b) Every 3 months
d) On every trip
- b) 170 NM
d) 190 NM
- b) Twin pipe air brake system
d) None of these
- b) 75 ltrs
d) 300 ltrs
- b) Braking purpose
d) None of these.
- b) Braking purpose
d) None of these.
- b) 6.0 Liters
d) 8.0 Liters
- b) 25 mm bore
d) 18 mm bore
- b) 20 mm
d) 16 mm
- b) 10 mm
d) 20 mm

- a) Released
c) Indicator defective
- 254) When brake indicator shows 'Green' the brake will be -
a) Released
c) Indicator defective
- 255) Brake accelerator is a -
a) Brake actuating device
b) Emergency brake application device.
c) Both a & b
- 256) 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
- 257) Brake accelerator actuates during -
a) Every service application
c) Both a & b
- 258) Minimum rate of pressure required to actuate the brake accelerator -
a) 1.2 kg/cm² per minute
c) 5 to 3.2 kg/cm² in 3 Sec
d) More than 1.6 kg/cm² per minute
- 259) Brake accelerator stops venting when BP pressure reached to -
a) 1.0 kg/cm²
c) 2.5 - 1.5 kg/cm²
- 260) Brake accelerator is connected to -
a) FP pipe
c) BC pipe
- 261) 'ASD' stands for -
a) Anti Sleep device
c) Both a & b
- 262) 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.
- 263) 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
- 264) The applications of Dump valve is -
a) Only braking
c) Both braking and de-braking
- 265) Electricity required for Dump valve operative -
a) 110 volt AC
c) 24 Volt DC
- 266) Anti skid system is a -
a) Electronic system
c) Electro Pneumatic system
- 267) 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
- 268) What is the limit of air gap between sensor and phonic wheel?
a) 1.0 - 5.0 mm
- b) Applied
d) none
- b) Applied
d) None of the above
- d) None of these
- d) None of these.
- b) Emergency brake application
d) None of these.
- b) 1.6 kg/cm² per minute
- b) 3.5 - 3.0 kg/cm²
d) 1.5 - 1.0 kg/cm²
- b) BP pipe
d) both a & b
- b) Anti slip device
d) None of these
- d) None of these
- d) None of these
- b) Only De-braking
d) None of these
- b) 110 volt DC
d) 230 Volt AC
- b) Pneumatic system
d) both a & c
- d) None of these
- b) 1.0 - 10.0 mm

- c) 0.9 – 1.4 mm
 269) 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
- 270) 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
- 271) In KNORR BREMSE system pressure switch connected to -
 a) FP line
 b) BP line
 c) BC line
 d) both a & b
- 272) How many brake cylinders are used in LHB coaches?
 a) 6
 b) 4
 c) 8
 d) 16
- 273) 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.
- 274) 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.
- 275) 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
- 276) 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
- 277) If micro processor shows '95' code means -
 a) Temporary fault
 b) Permanent fault
 c) No fault
 d) none of these
- 278) 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
- 279) Size of choke provided in emergency brake valve is -
 a) 0.4 mm
 b) 2.0 mm
 c) 3.0 mm
 d) No choke
- 280) 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
- 281) '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
- 282) "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
- 283) How one can identify 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
- 284) Location of isolating cock provided in 'PEASD' in LHB coaches.

- a) On under gear
c) No isolating cock provided
- b) Near emergency brake valve
d) None of these
- 285) When emergency pull box pulled from inside the coach.
- a) The air pressure slightly dropped.
c) No pressure dropped
- b) The air pressure dropped.
d) None of these.
- 286) When emergency chain pulled, brake accelerator will -
- a) Not respond
c) May be respond
- b) Respond
d) None of these.
- 287) Thickness of new brake pad is –
- a) 28 mm
c) 35 mm
- b) 30 mm
d) 32 mm
- 288) Condemning limit of brake pad is -
- a) 10 mm
c) 8 mm
- b) 7 mm
d) 9 mm
- 289) Maximum brake cylinder pressure in kg/cm² is -
- a) 3.0 ± 0.1 kg/cm²
c) 2.8 kg/cm²
- b) 3.8 ± 0.1 kg/cm²
d) 4.0 ± 0.1 kg/cm²
- 290) Maximum gap between brake disc and brake pad is -
- a) 3mm
c) 2mm
- b) 1mm
d) 1.5 mm
- 291) In built slack adjuster in brake cylinder is -
- a) Single acting mechanism
c) No slack adjuster
- b) Double acting mechanism
d) None of these.
- 292) The brake cylinder is comprises
- a) Power portion
c) Spindle reset mechanism
- b) Slack adjuster mechanism
d) All above
- 293) How can brake be replaced?
- a) By opening slack adjuster nut of cylinder
c) Both a & b.
- b) By opening brake caliper
d) None of these.
- 294) Actual size of tool required to open slack adjuster nut of KB brake cylinder is -
- a) 42 mm
c) 36 mm
- b) 27 mm
d) 40 mm
- 295) Correct direction to open slack adjuster nut of 'KB' make brake cylinder is -
- a) Anti clock wise
c) Any direction
- b) Clock wise
d) None of the above
- 296) Actual size of tool required to open slack adjuster nut of 'SAB' brake cylinder is -
- a) 46 mm
c) 47 mm
- b) 42 mm
d) 45 mm
- 297) Dia of 'SAB' make brake cylinder is -
- a) 250 mm
c) 245 mm
- b) 256 mm
d) 255 mm
- 298) Max. length of brake pad is -
- a) 330 mm
c) 350 mm
- b) 400 mm
d) 375 mm
- 299) Friction area of brake pad is -
- a) 400 cm²
c) 350mm
- b) 300 cm²
d) 375 cm²
- 300) If brake cylinder pipe pressure is below 0.6 bars, the brake indicator shows -
- a) Red
c) Half R, Half Green
- b) Green
d) Yellow
- 301) 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
 302) What is the diameter meter of brake disc?
 a) 110 mm
 c) 70 mm
- d) Yellow
 b) 640 mm
 d) 125 mm
- 303) Brake disc made up of -
 a) Gray Cast iron
 c) Special cast steel
- b) Cast steel
 d) none
- 304) Fins provided between the brake discs -
 a) For strengthening to the disc
 c) None of these
- b) For cooling of disc
 d) Both a & b
- 305) The brake disc fitted on a same axle at the distance is -
 a) 1030 mm
 c) 1100 mm
- b) 1070 mm
 d) 1125 mm
- 306) Distance of brake disc from inner face of wheel is -
 a) 195 mm
 c) 250 mm
- b) 175 mm
 d) 210 mm
- 307) How many types of brake system being used on IR -
 a) One
 c) Three
- b) two
 d) four
- 308) Which type of air brake system being used on LHB coaching stock?
 a) Single pipe air brake system
 c) Twin pipe air brake system
- b) Twin pipe disc brake system
 d) Vacuum brake system
- 309) What are main advantages to adopt disc brake system on LHB coaches?
 a) Wear and tear on wheels in minimized
 c) Effective braking than old system
- b) Over all life of wheels is increased
 d) All above
- 310) How many brake discs are provided on one axle?
 a) One
 c) Three
- b) Two
 d) Four
- 311) The Fins provided in between the brake discs for -
 a) To provided effective cooling during braking
 b) To minimized weight of brake disc
 c) To provided strength to break disc
 d) To increase friction property of brake disc
- 312) How many brake discs are provided on one power car?
 a) One
 c) Three
- b) Eight
 d) Four
- 313) How many brake discs provided on LHB coaches are -
 a) Four
 c) Twelve
- b) Eight
 d) Sixteen
- 314) How many brake cylinders are provided in an "A" type coach?
 a) 2
 c) 4
- b) 1
 d) 8
- 315) How many brake cylinders are provided on an "AB" Type coach?
 a) 1
 c) 4
- b) 2
 d) 8
- 316) How many brake cylinders are provided on LHB coach?
 a) 3
 c) 1
- b) 2
 d) 4
- 317) How many brake cylinders are uses in a LHB type coaches.
 a) 1
 c) 12
- b) 6
 d) 8
- 318) Outer diameter of main BP pipe line is -

- a) 20mm
c) 28 mm
- b) 32 mm
d) 40 mm
- 319) Outer diameter of main FP pipe line is -
a) 20 mm
c) 32 mm
- b) 40 mm
d) 28 mm
- 320) Outer diameter of main BC pipe line is -
a) 20 mm
c) 22 mm
- b) 18 mm
d) 10 mm
- 321) Brake caliper unit mounted on -
a) Bogie cross beam
c) Wheel axles
- b) Bogie side frame
d) Any of above
- 322) By pass system is used in brake system when -
a) F.P pipe broken
c) Hose pipe broken
- b) B.P Pipe broken
d) Any of these
- 323) Single pipe system is used in brake system when -
a) F.P pipe broken
c) Hose pipe broken
- b) B.P Pipe broken
d) Any of these
- 324) What will you do when one end BP angle cock leakage enroute -
a) By pass the coach
c) Isolate the line from T- joint
- b) Single pipe the train
d) Any of above
- 325) Brake caliper unit should be checked for -
a) Corroded part
c) Free leverage
- b) Worn out pins
d) All above
- 326) Brake caliper unit mounted with the help of -
a) M16x60 bolt
c) M 24X60 mm bolt
- b) M 12x 60 mm bolt
d) M 20 x60 mm bolt
- 327) Torque required for brake caliper mounting bolt is -
a) 170 nm
c) 200nm
- b) 60 nm
d) 190 nm
- 328) Brake caliper jammed when -
a) Middle pin corroded
c) Brake cylinder lose
- b) Brake pad pin worn out
d) Any of above
- 329) 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
- 330) Brake cylinder bellow of brake caliper unit should not be allowed it -
a) Torn below
c) Bent bellow
- b) Cracked bellowed
d) All above
- 331) 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
- 332) 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

- 333) 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 |
- 334) 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 |
- 335) The parking brake pressure tank is charge through -
- | | |
|---------------|--------------------------|
| a) FP line | b) Directly from BP line |
| c) Through DV | d) Any of above |
- 336) During service application the brakes should apply in -
- | | |
|------------|---------------|
| a) 20 Sec | b) 30 Sec |
| c) 3-5 Sec | d) 15-20 Sec. |
- 337) During service application the brake accelerator will be
- | | |
|-----------------------|---------------------|
| a) Definitely respond | b) Does not respond |
| c) May be respond | d) any of above |
- 338) During drop test of the rake the maximum drop permitted in BP is -
- | | |
|---------------------------|----------------|
| a) 0.2 kg/cm ² | b) 0.3 kg/ cm2 |
| c) 2.0 kg/ cm2 | d) 0.6 kg/ cm2 |
- 339) During drop test of the rake the maximum drop permitted in FP is -
- | | |
|-----------------|----------------|
| a) 0.2 kg/ cm2 | b) 0.6kg/ cm2 |
| c). 2.0 kg/ cm2 | d) 1.0 kg/ cm2 |
- 340) 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 |
- 341) Charging time of CR is -
- | | |
|------------|------------|
| a) 150 Sec | b) 160 Sec |
| c) 140 Sec | d) 120 Sec |
- 342) After full brake application the brake should release within.
- | | |
|--------------|---------------|
| a) 10-20 Sec | b) 20-25 Sec. |
| c) 15-20 Sec | d) 25- 30 Sec |
- 343) 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 |
- 344) 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 |
- 345) 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 |
- 346) 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 |
- 347) 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 |
- 348) 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
- 349) 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
- 350) 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
- 351) 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
- 352) 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
- 353) 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
- 354) How can save the bellows from twisting -
- a) Regular cleaning of bellows
 - b) Regular cleaning and lubricating of bellows
 - c) Regular Over handing of bellows
 - d) All of above
- 355) If the hand brake indicators 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
- 356) 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
- 357) What will you do if hand brakes are applied but brake indicators shows 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
- 358) What will you do if hand brake indicators 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
- 359) 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) Cannot be checked
- 360) What will happened if no secondary suspension provided -
- a) Riding quality will affect
 - b) Vertical socks will increase
 - c) Wear and tear of parts increased
 - d) All above

- 361) Which type of CBC is fitted in LHB Coaches?
 a) E
 b) H
 c) EH
 d) None of these
- 362) The CBC fitted on LHB coaches' has _____ feature.
 a) Anti slipping
 b) Anti rotation
 c) Anti climbing
 d) Anti Creeping
- 363) The tensile stroke of CBC is -
 a) 53-58 mm
 b) 45-50 mm
 c) 60-65 mm
 d) 35-40 mm
- 364) The maximum buffing stroke of CBC is -
 a) 58 mm
 b) 75 mm
 c) 80 mm
 d) 85 mm
- 365) Horizontal gathering range of CBC is -
 a) 100 mm
 b) 110 mm
 c) 95 mm
 d) 119 mm
- 366) 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.
- 367) 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.
- 368) Vertical gathering range of CBC is -
 a) 90 mm
 b) 95 mm
 c) 85 mm
 d) 100 mm
- 369) 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
- 370) During coupling operation the speed of vehicle should be -
 a) 3-5 kmph
 b) 2-3 kmph
 c) 5 kmph.
 d) 6-7 kmph
- 371) 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
- 372) 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.
- 373) 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
- 374) 'Jaw gap gauge test' is performed when knuckle in -
 a) Closed position
 b) Open position
 c) a & b
 d) None of above
- 375) 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) Cannot say

- 376) 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
- 377) 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
- 378) 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
- 379) The max height of supporting device should be
- a) 190 mm
 - b) 187 mm
 - c) 187.5 mm
 - d) 189.5 mm
- 380) 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
- 381) Maximum torque is required for supporting device bolts.
- a) 400 NM
 - b) 200 NM
 - c) 500 NM
 - d) 550 NM
- 382) Maximum torque is required for base plate bolts.
- a) 45 NM
 - b) 180-200NM
 - c) 500 ±25 NM
 - d) 55±50 NM
- 383) Max. thickness of shim required for increase of buffer height -
- a) 3 mm
 - b) 5 mm
 - c) 10 mm
 - d) 15 mm
- 384) 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
- 385) What is the full form of WRA?
- a) wire relay appliances
 - b) water raising apparatus
 - c) Worker relief arrangement
 - d) None of these.
- 386) 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.
- 387) How many openings 'Retention Tank' have -
- a) One
 - b) two
 - c) Three
 - d) four
- 388) Full form of P.L.C.
- a) Programmable Logic Controller
 - b) Private Limited Company
 - c) Perforated Loco Component
 - d) None of these.
- 389) CDTs works on -
- a) Automatically
 - b) Electrically & pneumatic pressure arrangement
 - c) Manually
 - d) None of these.
- 390) Opening of Retention tank activate by -
- a) Double acting pneumatic cylinder
 - b) Automatically
 - c) Manually
 - d) None of these

- 391) Upper opening of retention tank -
- a) Partial open manually
 - b) Always open
 - c) Mostly closed
 - d) None
- 392) 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.
- 393) 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
- 394) 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.
- 395) CDTS system is based on RDSO specification -
- a) MDTS : 090
 - b) MDTS : 089
 - c) NO. C 9906
 - d) None
- 396) Full form of W.S.P -
- a) Whole System Process
 - b) Whole system procedure
 - c) Wheel sliding protection
 - d) None of these
- 397) Toilet bowl made up of -
- a) Cast Iron steel
 - b) IRSM 41
 - c) Stainless steel AISI 304
 - d) None
- 398) PLC works on -
- a) 240 V AC
 - b) 120 V AC
 - c) 24 V DC
 - d) 24 V AC
- 399) CDTS P.L.C. having -
- a) 8 input & 4 output
 - b) 4 input & 4 output
 - c) 4 input & 8 output
 - d) None of these
- 400) 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
- 401) 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.
- 402) 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.
- 403) “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
- 404) In case of retention tank discharge cycle -
- a) Train speed should be less than 10 Kmph
 - b) Train speed should be above 20 Kmph
 - c) Train speed should be above 30 Kmph
 - d) Train speed should be above 40 Kmph

- 405) How many Maintenance Schedules are generally done in primary Maintenance Depot.
- a) One
b) Two
c) Three
d) None
- 406) Frequency of D1 Schedule is -
- a) On Every Trip
b) 7 days
c) 15 days
d) 30 days
- 407) Frequency of D2 Schedule is -
- a) 7 days \pm 1 day
b) 10 days \pm 1 day
c) 15 days \pm 1 day
d) 30 days \pm 3 day
- 408) Frequency of D3 Schedule is -
- a) 1 month \pm 1 day
b) 3 month \pm 3 day
c) 6 month \pm 15 day
d) 9 month \pm 3 day
- 409) Intensive cleaning of coaches should be done in -
- a) D1 Schedule
b) D2 Schedule
c) D3 Schedule
d) D1, D2 & D3
- 410) Inspection of vestibule and its rubber fitting for damage is done in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 411) Thoroughly cleaning and removing dust, rust accumulated at pillars is done in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 412) Examination of sole bar for corrosion is done in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 413) Touching up damaged paint inside and outside in -
- a) D1 Schedule
b) D2 Schedule
c) D2 & D3 Schedule
d) D3 Schedule
- 414) Checking of bogie bolster assembly and bracket etc in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 415) Washing of bogie frame thoroughly with water jet in -
- a) D1 Schedule
b) D2 Schedule
c) D2 & D3 Schedule
d) D3 Schedule
- 416) 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
- 417) Carrying out of functional test on pneumatic brake system in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 418) Checking of air hoses is done in -
- a) D1 Schedule
b) D2 Schedule
c) D1, D2 & D3 Schedule
d) D3 Schedule
- 419) Verifying the clearance between each pad and disc surface in -
- a) D1 Schedule
b) D2 Schedule
c) D3 Schedule
d) D2 & D3
- 420) Inspection of earthing equipment for wear of carbon bars -
- a) D1 Schedule
b) D2 Schedule
c) D3 Schedule
d) D2 & D3

- 421) Checking of crack, damage of spring is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 422) Checking of dampers its rubber element is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 423) 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
- 424) Checking of wheel profile gauge is done in
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 425) Inspection of Rotation Limiter is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 426) 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
- 427) 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
- 428) Lubrication of all pins and bushes is done in -
 a) D1 Schedule
 b) D2 & D3 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 429) Inspection of coupler head, knuckle for damage is checked in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 430) 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
- 431) 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
- 432) Cleaning of Air Filter is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D2 & D3 Schedule
- 433) Draining of Air tank is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 434) Inspection of seats, Luggage rack etc. is done in -
 a) D1 Schedule
 b) D2 & D3 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 435) Inspection of Leaf of sliding door is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule
- 436) Lubrication of door seals with silicon paste is done in -
 a) D1 Schedule
 b) D2 Schedule
 c) D1, D2 & D3 Schedule
 d) D3 Schedule

- 437) What is SS-I?
 a) Shop Superintendent-I
 b) Shop Schedule-I
 c) None of these
 d) All
- 438) Where shop schedule is carried out -
 a) In primary depot
 b) In sick line
 c) In workshops
 d) none
- 439) Frequency of SS-I is -
 a) 18 month \pm 30 days
 b) 20 months \pm 7 day
 c) 24 months \pm 15 day
 d) None of these
- 440) 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
- 441) Frequency of SS-II is -
 a) 1 year
 b) 2 years
 c) 3 years
 d) 5 years
- 442) 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
- 443) Frequency of SS-III is -
 a) 2 years
 b) 3 years
 c) 6 years
 d) 5 years
- 444) 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
- 445) 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
- 446) 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.
- 447) How much grease is required for Timken make bearing?
 a) 300 gm
 b) 350 gm
 c) 500 gm
 d) 400 gm
- 448) 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
- 449) 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
- 450) 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
- 451) Primary maintenance is a type of
 a) Break down maintenance
 b) Preventive maintenance
 c) Safe to run examination
 d) None of these

- 452) POH and IOH schedule of Rajdhani coaches is a type of -
- a) Break down maintenance
 - b) Preventive maintenance
 - c) Both a & b
 - d) Either a or b
- 453) The maintenance done on pit line is -
- a) Secondary maintenance only
 - b) Primary maintenance only
 - c) Safe to run only
 - d) a & b of above only
- 454) The capacity of axle of LHB coach is -
- a) 13 t
 - b) 16 t
 - c) 16.25 t
 - d) 22 t
- 455) "Yellow point" is provided on axel boxes indicated for
- a) The location where Roller bearing may crack
 - b) The location where actual temperature of bearing can be measure
 - c) The No of axel boxes
 - d) None of these.
- 456) The main function of anti roll bar is -
- a) To allow rolling action of the coach
 - b) To prevent Rolling action of the coach
 - c) To provided strength for bogie
 - d) To negotiate the track curve
- 457) Free movement of Anti Roll bar is depends upon -
- a) Condition of Grease in bracket
 - b) Condition of bearing at both ends
 - c) Condition of can of bearing
 - d) All of above
- 458) The anti toll bar must be checked for -
- a) Any wearness
 - b) Any cracks
 - c) Free movement
 - d) All the above
- 459) 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
- 460) Grease of anti roll bar should be replace during every
- a) Trip schedule
 - b) D1 schedule
 - c) D2 schedule
 - d) D3 schedule
- 461) Wheel tapping is done to detect
- a) Any hair crack
 - b) Any material flow
 - c) Any wheel shelling
 - d) All the above
- 462) 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
- 463) How much shelling on a wheel can be allowed -
- a) 50 mm
 - b) 30 mm
 - c) 20 mm multiple
 - d) No shelling allowed
- 464) The NRV is provided in
- a) BC line
 - b) BP line
 - c) FP line
 - d) All above]
- 465) 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
- 466) If the silent block of traction link shifted to one side the traction link -
- a) Must be replace
 - b) Not required replacing
 - c) Can be allowed for one trip
 - d) None of these

- 467) 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
- 468) 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
- 469) 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
- 470) 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
- 471) 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
- 472) How can you identified the emergency windows
- a) Provided with Red colour handles
 - b) Provided with stickers on each emergency window
 - c) Above a & b
 - d) None of these
- 473) The FRP panels are -
- a) Fire retardant
 - b) Fire proof
 - c) Fire friendly
 - d) All of above
- 474) Curtains and Rexene seats provided on LHB coaches are
- a) Fiber made
 - b) Fire retardant
 - c) Fire proof
 - d) All of above
- 475) How many under slung water tanks are provided on ACCN coaches -
- a) 2
 - b) 3
 - c) 4
 - d) 5
- 476) How many under slung water tanks are provided on WLRRM coaches -
- a) 2
 - b) 3
 - c) 4
 - d) 1
- 477) What is the capacity of under slung water tank provided on WLRRM -
- a) 630 ltr.
 - b) 640 ltr.
 - c) 400 ltr.
 - d) 450 ltr.
- 478) 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
- 479) 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
- 480) The sensor is provided on -
- a) All water tanks
 - b) Two water tanks
 - c) One water tank
 - d) None of these

- 481) 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
- 482) 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
- 483) 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
- 484) 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
- 485) 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
- 486) The dump valve works only during -
- a) Emergency braking
 - b) Service application
 - c) Deference in speed of wheel
 - d) Deference in diameter of wheel
- 487) 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
- 488) 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
- 489) 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
- 490) 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
- 491) 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
- 492) 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
- 493) The brake pads should be of same thickness on
- a) Both caliper of one wheel set
 - b) All caliper of a trolley
 - c) Each calliper
 - d) All caliper of both trolley
- 494) 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
- 495) 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
- 496) 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
- 497) If the brake pads are wearing out in taper condition, the correct action will be -
- a) Allow the brake pads in same condition
 - b) Replace the brake pads immediately
 - c) Replace the brake caliper unit immediately
 - d) None of these

WAGONS

498. What is the length over Headstock of the BOXN wagon?
(a) 9774 mm (b) 9784 mm
(c) 9777 mm (d) 9848 mm
499. Tare weight of the BOXN wagon is -
(a) 22.37 tons. (b) 22.47 tons.
(c) 22.91 tons. (d) 22.90 tons.
500. What is the length over couplers of the BOXN wagon?
(a) 10713 mm (b) 10813 mm
(c) 11002 mm (d) 10100 mm
501. What is the length over couplers of the BCN wagon?
(a) 15400 mm (b) 15443 mm
(c) 15429 mm (d) 15562 mm
502. Gross load of the BOXN wagon is -
(a) 78.92 t (b) 81.28 T
(c) 86.78 t (d) 88.81 t
503. In accident manual, train parting is under –
(a) J class (b) K class
(c) C class (d) P class
504. Newly built BOXN wagon first POH periodicity is –
(a) 4.5 year (b) 5.5 year
(c) 6.0 year (d) 6.5 year
505. 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
506. Board gauge track gauge is –
(a) 1676 mm (b) 1667 mm
(c) 1698 mm (d) 1500 mm
507. POH of BG brake van is –
(a) 3.5 year (b) 2.0 year
(c) 2.5 year (d) 3.0 year
508. 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.
509. C- class ODC shall be moved during –
(a) Day light (b) Day-night time
(c) Only night time (d) None of the above
510. 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
511. 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
512. 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
513. 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
514. What do you mean by PME?

- (a) Pre medical examination
 - (b) Pre maintenance examination
 - (c) Periodical maintenance examination
 - (d) Power mechanical equipment
515. What do you mean by CC rakes?
- (a) Content contact pad.
 - (b) Close circuit rake
 - (c) Complete coal rake
 - (d) All the above
516. 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
517. Standard diameter of knuckle pivot pin is -
- (a) 50 mm
 - (b) 43 mm
 - (c) 41.28 mm
 - (d) 34 mm
518. Standard dimension of shank wear plate for AAR coupler is -
- (a) 12 mm
 - (b) 8 mm
 - (c) 6 mm
 - (d) 14 mm
519. 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
520. The maximum permissible free slack in the draft gear in service is –
- (a) 35 mm
 - (b) 30 mm
 - (c) 25 mm
 - (d) 20 mm
521. No. of CBC gauge are –
- (a) 5
 - (b) 8
 - (c) 12
 - (d) 2
522. 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
523. 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
524. What type of center buffer coupler used in Indian Railway?
- (a) APRT type
 - (b) AARP type
 - (c) AAR type
 - (d) ARPA type
525. The working strength of center buffer coupler is -
- (a) 100 t
 - (b) 120 t
 - (c) 140 t
 - (d) 180 t
526. 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
527. Clevis and Clevis pin are the part of –
- (a) Alliance- II coupler
 - (b) Non- Transition coupler
 - (c) Transition coupler
 - (d) Draw bar
528. Standard diameters of wheel on BOXN Wagon is -
- (a) 1010 & 900 mm
 - (b) 1000 & 906 mm
 - (c) 950 & 906 mm
 - (d) 906 & 813 mm
529. 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

530. The wheel gauge should be measured on –
- (a) Off load condition (b) Loaded wagon
(c) Both condition (d) Empty wagon
531. The lowest wheel dia permitted by workshop for BOXN wagon is -
- (a) 919 mm (b) 906 mm
(c) 925 mm (d) 860 mm
532. 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
533. The condemning diameter of BTPN wheel is -
- (a) 813 mm (b) 990 mm
(c) 906 mm (d) 860 mm
534. Permissible maximum flat surface on tread on other BG wagon are –
- (a) 75 mm (b) 60 mm
(c) 75 mm (d) 70 mm
535. What is an integrated portion of the axle?
- (a) Cap (b) Roller bearing
(c) Journal (d) None of the above
536. 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
537. The colour coding of distributor valve of air brake goods stock is –
- (a) Yellow (b) Black
(c) Green (d) White
538. 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
539. Control rod diameter of air brake wagon is –
- (a) 30 mm (b) 32 mm
(c) 38 mm (d) 40 mm
540. 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
541. 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
542. 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
543. Dirt collector of a wagon should be cleaned within-
- (a) At the time of ROH (b) 2 month
(c) 6 month (d) 3 month
544. What is the capacity of control reservoir in goods train?
- (a) 4 Lit. (b) 6 Lit
(c) 8 Lit. (d) 10 Lit.
545. 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
546. 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
547. 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
548. 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
549. Of which brake van the quick coupling is the part-
(a) BVZT (b) BVZX
(c) BVZC (d) BVZM
550. The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than –
(a) 4.5kg/ Cm² (b) 3.7 kg/ Cm²
(c) 4.8 kg/ Cm² (d) 5.8kg/ Cm²
551. When we release manually KE type DV, the air pressure release form -
(a) CR & AR (b) BC & AR
(c) CR & BC (d) AR & DV
552. The diameter of branch pipe of BP to DV for wagon is –
(a) 25 mm (b) 20 mm
(c) 13 mm (d) 22 mm
553. 'A' dimension in Boxn wagon is -
(a) 70±²₀ mm (b) 172±3 mm
(c) 175±4 mm (d) 175+1mm
554. 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
555. The diameter of air brake cylinder BOXN wagon is-
(a) 300 mm (b) 355 mm
(c) 360 mm (d) 315 mm
556. The diameter of air bake cylinder in BVZC (Wagon) is -
(a) 300 mm (b) 295 mm
(c) 305 mm (d) 315 mm
557. 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
558. 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.
559. 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
560. The capacity of compressor machine for air brake testing of rake is –
(a) 12-15 Kg/ Cm² (b) 8-10 Kg/ Cm²
(c) 7-12 Kg/ Cm² (d) 7-8 Kg/ Cm²
561. At the originating point, minimum brake power of premium end-to-end rake is -
(a) 85% (b) 95%
(c) 90% (d) 98%
562. The brake power of CC rake from nodal point is –
(a) 90% (b) 100%
(d) 85% (d) 75%
563. 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
564. What is the function of DC (Dirt collector)?
(a) Collect dirt (b) Collect air
(c) Clean air (d) Clean CR
565. How much pressure should drop in a minute after putting a test plate in locomotive?
(a) 0.8 Kg/ Cm² (b) 1.0 Kg/ Cm²
(c) 1.2 Kg/ Cm² (d) 1.5 Kg/ Cm²
566. The colour for brake power certificate for Premium end-to-end rake is-
(a) Green (b) White
(c) Pink (d) Yellow
567. For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm² is -
(a) 30-40 sec (b) 40-50 sec
(c) 45-60 sec (d) 50-75 sec
568. What is the piston stroke of BVZC wagons?
(a) 50±10 mm (b) 70±10 mm
(c) 85±10 mm (d) 90± 5 mm
569. 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
570. 'A' dimension of the BOBRN wagon is -
(a) 29±2₀ mm (b) 27± 2₀ mm
(c) 33± 2 mm (d) 25±5 mm
571. What is the colour of BPC of air brake CC rake?
(a) Red (b) Pink
(c) Green (d) Yellow
572. 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
573. 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
574. 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
575. The M.R. pressure of engine should be-
(a) 6.0 to 8.0 Kg/ Cm² (b) 8.0 to 10.0 Kg/ Cm²
(c) 10.0 to 12.0 Kg/ Cm² (d) 12.0 to 15.0 Kg/ Cm²
576. 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
577. If C3W type DV is manually released, pressure is released from -
(a) AR (b) Control reservoir
(c) Brake cylinder (d) All above
578. 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
579. 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
580. 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.
581. 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
582. 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
583. Standard thickness of UIC/CASNUB bogies composite brake block is-
(a) 60 mm (b) 45 mm
(c) 55 mm (d) 58 mm
584. How many side frame fitted in CASNUB trolley / bogie?
(a) 2 (b) 1
(c) 3 (d) Nil
585. What is the axle load of CASNUB trolley?
(a) 19.2 ton (b) 22.9 ton
(c) 20.3 ton. (d) 20.9 ton
586. What is the new wheel diameter CASNUB 22 w (Retrofitted)?
(a) 1000 mm (b) 960 mm
(c) 956 mm (d) 946 mm
587. What type of pivot used in CASNUB 22WM, 22NL and other type of CASNUB trolley?
(a) IRS type (b) Spherical type
(c) other type (d)
588. 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
589. What is the standard inclination on wheel tread?
(a) 1 in 20 (b) 1 in 22
(c) 1 in 18 (d) 1 in 25
590. How many types of adopters used in CASNUB trolley?
(a) 2 (b) 1
(c) 3 (d) 4
591. Condemning size of elastomeric pad for Casnub bogie is -
(a) 44 mm (b) 43 mm
(c) 42 mm (d) 40 mm
592. Nominal dimension of side bearer rubber pad for Casnub bogie is -
(a) 114 mm (b) 116 mm
(c) 118 mm (d) 120 mm
593. Condemning size of side bearer rubber pad for Casnub bogie is -
(a) 111 mm (b) 110 mm
(c) 109 mm (d) 108 mm
594. 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

595. Which types of steel are used in side frame column friction plates of Casnub bogie?
 (a) Mild steel (b) Carbon steel
 (c) Silico manganese steel (d) None of the above
596. The clearance between pins and bushes should not exceed
 (a) 1.0 mm (b) 0.5 mm
 (c) 1.5 mm (d) None of the above
597. Which type of composite brake block is used in freight stock of under frame mounted brake system?
 (a) 'K' type (b) 'L' type
 (c) 'KL' type (d) 'Modified K' type
598. During rolling out examination, it is seen that -
 (a) Flat place on tyre
 (b) Smoke is coming from axle box
 (c) No brake binding (d) Broken spring
599. After RDSO Recommendation, What material is used BGV brake van in place of wood dust bag?
 (a) Glass wool (b) Cottonwood
 (c) Steel wool (d) None of the above
600. Broad gauge roller bearing radial clearance is -
 (a) 123 to .132 mm (b) 0.132 to 0.145 mm
 (c) 0.145 to 0.19 mm (d) 0.19 to 0.25 mm
601. C- class ODC shall be moved during -
 (a) Day light (b) Day-night time
 (c) Only night time (d) None of the above
602. What type of coupler used in brake van match truck (BVM)?
 (a) Screw coupling (b) CBC
 (c) Non- transition (d) None of the above
603. 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
604. The 'E' type vacuum cylinder of 457mm diameter is used in -
 (a) BOBR wagon (b) Box wagon
 (c) Bk. van (d) Four Wheeled wagon
605. Instructions for maintenance and operation of BOX wagon, What RDSO's technical
 (a) G-71 (b) G-73
 (c) G-18 (d) G-16
606. What RDSO's technical pamphlet is used, for maintenance manual of Alliance-II coupler?
 (a) G-45H (b) G-78
 (c) G-62 (d) G-40
607. Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogies and twin pipe air brake system, What RDSO's technical pamphlet is used?
 (a) G-90 (b) G-70
 (c) G-97 (d) WT- 77
608. Instructions for inspection and maintenance of BOBR wagon, What RDSO's technical
 (a) G-73 (b) G-78
 (c) G-97 (d) G- 16
609. 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
610. Instructions for inspection and maintenance of Air brake, What RDSO's technical
- (a) G-97 (b) G-81
(c) G-73 (d) G- 71
611. As per Railway Board, In effective percentage of wagon in open line is –
- (a) 3.5% (b) 2.5%
(c) 4.0% (d) 10%
612. 'A' category depot will issue BPC of CC Rake valid up to Km –
- (a) 4500 Km (b) 5000 Km
(c) 6000 Km (d) 6500 Km
613. Depot, other then 'A' category will issue BPC of CC rake valid up to Km –
- (a) 4500 Km (b) 5000 Km
(c) 6000km (d) 6500 Km
614. what time relaxation of period has been given to a loaded BOX wagon for returning for POH-
- (a) After 15 days (b) After 30 days
(c) Before 30 days (d) before 15 days
615. The mini rake will have composition of minimum –
- (a) 10 wagon (b) 20 wagon
(c) 25 wagon (d) 30 wagon
616. The free time for loading/unloading of mini rake shall be –
- (a) 6 Hours (b) 8 Hours
(c) 5 Hours (d) 2 Hours
617. The mini rake scheme will be applicable only to –
- (a) Covered wagon (b) Open wagon
(c) Tank wagon (d) Both of this
618. 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
619. what time relaxation of period has been given to a empty BOX wagon for returning for POH-
- (a) Before 15 days (b) After 30 days
(c) Before 30 days (d) before 15 days
620. What do you mean by PME?
- (a) Pre medical examination
(b) Pre maintenance examination
(c) Periodical maintenance examination
(d) Power mechanical equipment
621. What do you mean by CC rakes?
- (a) Content contact pad. (b) Close circuit rake
(c) Complete coal rake (d) Both of this
622. The minimum permissible buffer height above rail line to center of Head Stock under loaded condition is -
- (a) 1105 mm (b) 1145 mm
(c) 1115 mm (d) 1030 mm
623. Standard buffer projection from Headstock is -
- (a) 650 mm (b) 635 mm
(c) 620 mm (d) 660 mm
624. Minimum Permissible buffer projection from Headstock is -
- (a) 635 mm (b) 605 mm
(c) 590 mm (d) 584 mm

625. Standard diameter of knuckle pivot pin is -
 (a) 50 mm (b) 43 mm
 (c) 41.28 mm (d) 34 mm
626. Permissible diameter of knuckle pivot pin is -
 (a) 41 mm (b) 38.5 mm
 (c) 39.5 mm (d) 40.5 mm
627. Standard diameter of Clevis pin is -
 (a) 35 mm (b) 38 mm
 (c) 39 mm (d) 37 mm
628. Permissible diameter of Clevis pin is -
 (a) 35.8 mm (b) 38.5 mm
 (c) 36.5 mm (d) 37 mm
629. Standard dimension of shank wear plate for AAR coupler is -
 (a) 12 mm (b) 8 mm
 (c) 6 mm (d) 14 mm
630. 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
631. Wear limit of distance between the nose of Knuckle and guard arm is -
 (a) 140 mm (b) 155 mm
 (c) 125 mm (d) 130 mm
632. For goods train, max. Buffer height from rail level is -
 (a) 1105 mm (b) 1115 mm
 (c) 1015 mm (d) 1100 mm
633. The maximum permissible free slack in the draft gear in service is -
 (a) 35 mm (b) 30 mm
 (c) 25 mm (d) 20 mm
634. No. of CBC gauge are -
 (a) 5 (b) 8
 (c) 12 (d) 2
635. For short case, what shall be the max buffer projection from the Headstock on BG wagon?
 (a) 480 mm (b) 456 mm
 (c) 460 mm (d) 510mm
636. For short case, what shall be the min. buffer projection from the Headstock on BG wagon?
 (a) 420 mm (b) 440 mm
 (c) 410 mm (d) 406mm
637. What is the maximum Permissible wears in Draw Bars shackle pinhole?
 (a) 5.23 mm (b) 6.35 mm
 (c) 7.21 mm (d) 6.69mm
638. 2.17 What is the maximum Permissible wear in draw Bars cotter pin hole?
 (a) 10.7 mm (b) 12.3 mm
 (c) 12.7 mm (d) 13.1mm
639. What is the weakest link of the center buffer coupler?
 (a) Knuckle (b) Draft gear
 (c) Lock (d) Yoke pin
640. The high capacity draft gears is -
 (a) Mark -20 (b) Mark 50
 (c) CF 21 (d) DF 39
641. The high capacity draft gears is -
 (a) RF361 (b) RF-401
 (c) RF-600 (d) RF-21

642. 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
643. What type of center buffer coupler used in Indian Railway?
- (a) APRT type (b) AARP type
(c) AAR type (d) ARPA type
644. What type of head and shank are used in AAR type center buffer coupler?
- (a) E&G Type (b) E&F Type
(c) F&E Type (d) H&F Type
645. The working strength of center buffer coupler is -
- (a) 100 t (b) 120 t
(c) 140 t (d) 180 t
646. The diameter of knuckle pivot pin is –
- (a) 40.0 mm (b) 38.0 mm
(c) 37.0 mm (d) 35.0 mm
647. Draft gear, the pack with 11 Nos of rubber pads and 10 Nos of spacer plates, when assembled in the housing with follower shall not be less then –
- (a) 638 mm (b) 632 mm
(c) 660 mm (d) 620 mm
648. The conventional screw coupling has a working load of –
- (a) 2.9 t (b) 22.5 t
(c) 24.3 t (d) 20.3 t
649. The working strength of center buffer coupler is –
- (a) 180 t (b) 160 t
(c) 120 t (d) 80 t
650. The working strength of Alliance –II coupler is -
- (a) 100 t (b) 80 t
(c) 70 t (d) 54 t
651. Which among the buffer gear assembly absorbing the buffer impact?
- (a) Buffer spring (b) Plunger
(c) Buffer casting (d) Spindle
652. 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
653. Material AAR –M- 201 & 211 Grade ‘E’ coupler is called as –
- (a) High tensile (b) Non- Tensile
(c) Standard (d) None of the above
654. Clevis and Clevis pin are the part of –
- (a) Alliance- II coupler (b) Non- Transition coupler
(c) Transition coupler (d) Draw bar
655. Full form of WILD
- (a) Wheel Impact Load Detector
(b) Wheel Inline Load Detector
(c) Wheel Impact Lie Detector
(d) None of the above
656. Total no. of channels comprising in WILD
- (a) 34 (b) 32
(c) 36 (d) 38

657. Total no. of channels used for detection of impact load on WILD
 (a) 34 (b)32
 (c) 36 (d) 38
658. Total no. of channels used for activation of system on WILD
 (a) 2 (b)4
 (c) 6 (d) None
659. WILD can detect defect wheels of diameter ranging
 (a) 770mm-1100mm (b) 770mm-1200mm
 (c) 870mm-1100mm (d) None of the above
660. WILD will work effectively in the speed range of
 (a) 30kmph-160kmph (b) 15kmph-150kmph
 (c) 15kmph-120kmph (d) None of the above
661. In WILD, to detect impact load each channel comprises no. of reset type strain gauges fixed on rail
 (a) 2 (b)4
 (c) 6 (d) None
662. Maximum capability of WILD functioning of trains consist upto how many vehicles
 (a) 100 (b)58
 (c) 59 (d) 61
663. WILD should be installed on straight and level track of minimum length including approach to the site
 (a) 250mts (b)100mts
 (c) 100mts (d) 350mts
664. In WILD, there should be no fish plated joint within _____ on either side of the instrumented portion of the track
 (a) 13m (b)15m
 (c) 23m (d) 35m
665. The position of tank wagons on the mixed train must be attached in
 (a) Middle (b) Front of Brake Van
 (c) Next to Locomotive (d) Can't be mixed
666. Standard diameters of wheel on tread on BOXN Wagon is -
 (a) 1010 mm (b) 1000 mm
 (c) 950 mm (d) 906 mm
667. Minimum diameters of wheel on tread on BOXN Wagon during service is -
 (a) 1000 mm (b) 960 mm
 (c) 906 mm (d) 915 mm
668. Standard diameter of wheel on treads on BOX Wagon is –
 (a) 960 mm (b) 1000 mm
 (c) 906 mm (d) 860 mm
669. Minimum diameter of wheel on treads on BOX Wagon during service is -
 (a) 860 mm (b) 960 mm
 (c) 906 mm (d) 990 mm
670. 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
671. The axle load of BOX, BCX, BRH wagon is -
 (a) 22.9 t (b) 20.32 t
 (c) 16.3 t (d) 12.2 t

672. The axle capacity of BVZC, CRT, BTAL, BTAG, BTPGL wagon is -
 (a) 22.9 t (b) 20.3 t
 (c) 16.3 t (d) 12.2 t
673. The axle capacity of TPR, TORS, and TCL wagon is –
 (a) 22.9 t (b) 20.3 t
 (c) 16.3 t (d) 12.2 t
674. The wheel gauge should be measured on –
 (a) Off load condition (b) Loaded wagon
 (c) Both condition (d) Empty wagon
675. The lowest wheel dia permitted by workshop for BOXN wagon is -
 (a) 919 mm (b) 906 mm
 (c) 925 mm (d) 860 mm
676. 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
677. Maximum permissible wear on outer collar size of journals 255*127, 254*127, 229*114 are –
 (a) 6.0 mm (b) 11 mm
 (c) 8.0 mm (d) 5.0 mm
678. RDSO has stipulated three intermediate profile BOXN/BCN wagon with flange thickness as 20,22 and -
 (a) 28 mm (b) 25 mm
 (c) 24 mm (d) 23 mm
679. The condemning wheel diameter of BVG is -
 (a) 919 mm (b) 906 mm
 (c) 925 mm (d) 990 mm
680. The condemning diameter of wheel of BOI wagon is -
 (a) 990 mm (b) 906 mm
 (c) 813 mm (d) 860 mm
681. The new diameter of wheel for BOY wagon is -
 (a) 990 mm (b) 1090 mm
 (c) 1000 mm (d) 915 mm
682. The condemning diameter of BOBR wheel is -
 (a) 815 mm (b) 906 mm
 (c) 990 mm (d) 860 mm
683. The condemning diameter of BTPN wheel is -
 (a) 813 mm (b) 990 mm
 (c) 906 mm (d) 860 mm
684. The condemning diameter of BWL wheel is -
 (a) 813 mm (b) 906 mm
 (c) 915 mm (d) 860 mm
685. The radius at the root of the flange of new worn wheel profile is -
 (a) 14 mm (b) 16mm
 (c) 18mm (d) 120 mm
686. Permissible maximum flat surface on tread on other BG wagon are –
 (a) 75 mm (b) 60 mm
 (c) 75 mm (d) 70 mm

687. What should be permissible limit of ovality and taper on the journal?
 (a) 0.5 mm (b) 0.05 mm
 (c) 0.1 mm (d) 0.15mm
688. Permissible maximum flat surface on tread on IRS BG wagon is –
 (a) 75 mm (b) 50 mm
 (c) 60 mm (d) 70 mm
689. What is the minimum lateral play between axle box lug and horn check for UIC type trolleys?
 (a) 20 mm (b) 22 mm
 (c) 18 mm (d) 12 mm
690. What is the maximum lateral play between axle box lug and horn check for UIC type trolleys?
 (a) 20 mm (b) 22 mm
 (c) 25 mm (d) 28 mm
691. Minimum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –
 (a) 10 mm (b) 12 mm
 (c) 14 mm (d) 16 mm
692. Maximum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –
 (a) 12 mm (b) 14 mm
 (c) 16 mm (d) 18 mm
693. Maximum permissible wear on length of journal size of 255*127, 254*127,229*144 are-
 (a) 6.0 mm (b) 11 mm
 (c) 5.0 mm (d) 8.0 mm
694. Maximum permissible wear on inner collar size of journal 255*127,254*127,229*144 are-
 (a) 6.0 mm (b) 11 mm
 (c) 5.0 mm (d) 8.0 mm
695. The wheel gauge measures -
 (a) The distance between flanges of two wheels on same axle.
 (b) The distance between dia and axle.
 (c) The distance between journal and bearing.
 (d) The distance between two wheel.
696. What is an integrated portion of the axle?
 (a) Cap (b) Roller Bearing
 (c) Journal (d) None
697. For measuring the diameter of ovality & taper of the journal, how many locations are needed?
 (a) Two Location both the vertical and horizontal axis
 (b) Three locations both the vertical and horizontal axis
 (c) Three location only vertical axis
 (d) None of the above
698. Standard dimension 'e' in SAB on Frieght stock is -
 (a) 570 mm (b) 575 mm
 (c) 580 mm (d) 565 mm

699. In yard leaving, minimum Permissible dimension 'e' in SAB on Goods stock is -
 (a) 555 mm (b) 570 mm
 (c) 565 mm (d) 580 mm
700. The colour coding of distributor valve of air brake goods stock is –
 (a) Yellow (b) Black
 (c) Green (d) White
701. In air brake empty stock end-to-end goods rakes, The empty rake after unloading should be offered for intensive examination before-
 (a) Next station (b) Next Loading
 (c) Next Unloading (d) 36 Hours
702. In air brake end-to end rakes, After intensive examination validity of BPC remain upto the –
 (a) Next station (b) Loading point
 (c) Destination point (d) 72 Hours
703. Control rod diameter of air brake wagon is –
 (a) 30 mm (b) 32 mm
 (c) 38 mm (d) 40 mm
704. 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
705. 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
706. Piston stroke is empty conditions of BOY wagon is -
 (a) 90 ± 10 mm (b) 90 ± 5 mm
 (c) 90 ± 15 mm (d) $90 \pm 10/5$ mm
707. Piston stroke is loaded conditions of BOY wagon is -
 (a) 135 ± 5 mm (b) 135 ± 10 mm
 (c) 135 ± 20 mm (d) 120 ± 10 mm
708. In air brake stock, BPC becomes invalid, if the rake is stabled in any examination yard-
 (a) 24 hours (b) 36 hours
 (c) 48 hours (d) 12 hours
709. Dirt collector should be cleaned within-
 (a) At the time of ROH (b) 2 month
 (c) 6 month (d) 3 month
710. What is the capacity of control reservoir in goods train?
 (a) 4 Lit. (b) 6 Lit
 (c) 8 Lit. (d) 10 Lit.
711. How much air pressure should be dropped in brake van/ last vehicle for continuity test?
 (a) 0.8 Kg/Cm^2 (b) 1.0 Kg/Cm^2
 (c) 1.2 Kg/Cm^2 (d) 1.5 Kg/Cm^2
712. The Colour of Brake Pipe in Twin pipe brake system is -
 (a) Black (b) Yellow
 (c) Green (d) White
713. The Colour of Feed Pipe in twin pipe wagon is -
 (a) Black (b) Yellow
 (c) Green (d) White
714. What should be the brake pipe pressure in engine?
 (a) 4.8 Kg/Cm^2 (b) 4.7 Kg/ Cm^2
 (c) 5.0 Kg/ Cm^2 (d) 6.0 Kg/ Cm^2
715. The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than –
 (a) 4.5 kg/ Cm^2 (b) 3.7 kg/ Cm^2
 (c) 4.8 kg/ Cm^2 (d) 5.8 kg/ Cm^2

716. What should be the effective pressure in brake cylinder during full service application?
 (a) 3.6 Kg/ Cm² (b) 3.2 Kg/ Cm²
 (c) 3.8 Kg/ Cm² (d) 4.1 Kg/ Cm²
717. When we release manually KE type DV, the air pressure release form -
 (a) CR & AR (b) BC & AR
 (c) BC & CR (d) AR & DV
718. The diameter of branch pipe of BP to DV for wagon is –
 (a) 25 mm (b) 20 mm
 (c) 13 mm (d) 22 mm
719. If ELD handle is kept on loaded position of empty wagon, the result will be -
 (a) Brakes Release (b) Brake binding
 (c) Train parting (d) None of the above
720. In one BOXN wagon total no. of brake block are -
 (a) 4 (b) 8
 (c) 12 (d) 16
721. 'A' dimension in Boxn wagon is -
 (a) 70±20 mm (b) 172±3 mm
 (c) 175±4 mm (d) 175+1mm
722. 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
723. D.V. is directly attached with-
 (a) Brake cylinder (b) Brake pipe
 (c) AR (d) Common pipe bracket
724. The diameter of air brake cylinder BOXN wagon is-
 (a) 300 mm (b) 355 mm
 (c) 360 mm (d) 315 mm
725. The diameter of air bake cylinder in BVZC (Wagon) is -
 (a) 300 mm (b) 295 mm
 (c) 305 mm (d) 315 mm
726. 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
727. 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.
728. 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
729. The capacity of compressor machine for air brake testing of rake is –
 (a) 12-15 Kg/ Cm² (b) 8-10 Kg/ Cm²
 (c) 7-12 Kg/ Cm² (d) 7-8 Kg/ Cm²
730. In single pipe air brake system, BP is charged with –
 (a) 6±0.2 Kg/Cm² (b) 5±0.1 Kg/Cm²
 (c) 5.0±0.2 Kg/Cm² (d) 6.0±0.1 Kg/Cm²
731. At the originating point, minimum brake power of premium end-to-end rake is -
 (a) 85% (b) 95%
 (c) 90% (d) 98%
732. In twin pipe system the Auxiliary Reservoir pressure should be -
 (a) 6.0 kg/ Cm² (b) 4.8 Kg/ Cm²
 (c) 5.0 Kg/ Cm² (d) 6.5 Kg/ Cm²
733. If DV is having leakage -
 (a) Isolate DV
 (b) Close the isolating cock of the AR

- (c) Close the isolating cock of the BP/FP branch pipe (d) None of the above
734. The brake power of CC rake from nodal point is –
 (a) 90% (b) 100%
 (c) 85% (d) 75%
735. Brake power certified issued for such Premium end-to-end rakes will be valid for
 (a) 7±4 days (b) 10±2 days
 (c) 15 ±3 days (d) one month
736. The amount of air pressure in control reservoir of twin pipe system is -
 (a) 3.8 Kg/ Cm² (b) 6.0 Kg/ Cm²
 (c) 5.0 Kg/ Cm² (d) 4.8 Kg/ Cm²
737. What is the function of DC (Dirt collector)?
 (a) Collect dirt (b) Collect air
 (c) Clean air (d) Clean CR
738. How much pressure should drop in a minute after putting a test plate in locomotive?
 (a) 0.8 Kg/ Cm² (b) 1.0 Kg/ Cm²
 (c) 1.2 Kg/ Cm² (d) 1.5 Kg/ Cm²
739. Diameter of brake pipe and feed pipe is (In a good train)-
 (a) 28 mm (b) 34 mm
 (c) 32 mm (d) 36 mm
740. The three branch pipe attached to common pipe bracket, where the middle pipe lead to-
 (a) CR (b) DV
 (c) BC (d) AR
741. How many cut of angle cock are provided in a vehicle in twin pipe system-
 (a) Two (b) Four
 (c) Six (d) None
742. While isolating DV, the position of the handle in relation to rail line shall be
 (a) Horizontal (b) vertical
 (c) All the above (d) None of the above
743. If brake block is not releasing, pin is remove to release the brake -
 (a) Anchor link pin (b) control rod pin
 (c) Pull rod pin (d) equalizing pin
744. During Brake application, air flow from -
 (a) AR to BC (b) PB to BC
 (c) BP to BC (d) CR to BC
745. The leverage Ratio is obtained by -
 (a) Brake cylinder (b) Tie Rod
 (c) Empty Rod (d) L/E Devices
746. BP pressure in working train is -
 (a) 6.0 Kg/ Cm² (b) 5.5 Kg/ Cm²
 (c) 5.0 Kg/ Cm² (d) 15.2 Kg/ Cm²
747. The colour for brake power certificate for Premium end-to-end rake is-
 (a) Green (b) White
 (c) Pink (d) Yellow
748. The en-route Brake power percentage of goods train should be -
 (a) 85% (b) Not specified
 (c) 95% (d) 90%
749. For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm² is
 (a) 30-40 sec (b) 40-50 sec
 (c) 45-60 sec (d) 50-75 sec
750. What is the piston stroke of BVZC wagons?
 (a) 50±10 mm (b) 70±10 mm
 (c) 85±10 mm (d) 90± 5 mm

751. 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
752. The diameter of piston rod of 355-mm brake cylinder is -
 (a) 40 mm (b) 38 mm
 (c) 30 mm (d) 25 mm
753. The diameter of piston rod of 300-mm brake cylinder is -
 (a) 40 mm (b) 36 mm
 (c) 32 mm (d) 30 mm
754. What is the colour of BPC of air brake system?
 (a) Red (b) Pink
 (c) Green (d) Yellow
755. What is the colour of BPC of air brake CC rake?
 (a) Red (b) Pink
 (c) Green (d) Yellow
756. During brake release, air from BC goes to -
 (a) AR (b) CR
 (c) DV (d) Atmosphere
757. In twin pipe system, the FP is directly joined to branch pipe of -
 (a) CR (b) BC
 (c) DV (d) AR
758. The max. Air pressure in BC after brake release is -
 (a) 4.8 Kg/ Cm² (b) 5 Kg/ Cm²
 (c) 0.0 Kg/ Cm² (d) 2.5 Kg/ Cm²
759. The max. Air pressure in BP during application is -
 (a) 4.8 ± 1 Kg/ Cm² (b) 5.0 Kg/ Cm²
 (c) 3.8 ± 0.1 Kg/ Cm² (d) 3.8 Kg/ Cm²
760. The capacity of AR for wagon is-
 (a) 200 lit. (b) 200 lit.
 (c) 100 lit. (d) 150 lit.
761. In conventional air Brake system, the diameter of brake cylinder is-
 (a) 255 mm (b) 155 mm
 (c) 355 mm (d) 455 mm
762. As per population of air brake stock the percentage of distribution value should be kept as spares -
 (a) 10% (b) 2%
 (c) 5% (d) 10%
763. The diameter of ball in internal ball valve of cut of angle cock is -
 (a) 15 mm (b) 13 mm
 (c) 17 mm (d) 10 mm
764. The diameter of air brake cylinder for BVZC is -
 (a) 400 mm (b) 300 mm
 (c) 355 mm (d) 295 mm
765. The diameter of Std. Air brake Pressure gauge is-
 (a) 60 mm (b) 70 mm
 (c) 90 mm (d) 100 mm
766. What type of cut of angle cock fitted in goods stock?
 (a) Flat type (b) Ball type
 (c) Square type (d) None of the above
767. For testing DV the time required for filling BC in single pipe system from 0-3.6 kg/cm² is
 (a) 20-25 sec (b) 18-30 sec
 (c) 15-25 sec (d) 30-40 sec

768. What should be the pressure in feed pipe?
 (a) 3.8 Kg/cm² (b) 5.0 Kg/Cm²
 (c) 6.0 Kg/Cm² (d) none of the above
769. When DV is working condition the position of DV handle is -
 (a) Vertical (b) Horizontal
 (c) Inclined (d) Parallel
770. "e" dimension for SAB-600, in wagon is -
 (a) 444 – 474 mm (b) 555-575 mm
 (c) 500- 575 mm (d) 440- 575 mm
771. 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
772. Piston stroke of the BVZC is -
 (a) 60±10 mm (b) 70±10 mm
 (c) 65±10 mm (d) 75±10 mm
773. For testing DV the time required for charging CR from 0-48 kg/cm² is -
 (a) 290±20 sec (b) 150±20 sec
 (c) 185±25 sec (d) 200±20 sec
774. In air brake system branch pipe of DV to AR is connected via common pipe bracket is
 (a) At the bottom (b) In Middle
 (c) At Top (d) To AR
775. The type of joint for FP& BP is -
 (a) Grip seal (b) Flange
 (c) Thread coupling (d) knuckle
776. In air brake system branch pipe of DV to BC is connected via common pipe bracket is
 (a) At the bottom (b) In Middle
 (c) At the Top (d) To AR
777. FP charges -
 (a) AR (b) CR
 (c) DV (d) BP
778. Which equipments are not charged, when C3W DV is isolated in twin pipe system?
 (a) Brake cylinder only
 (b) Control reservoir and brake cylinder
 (c) Control reservoir and auxiliary reservoir
 (d) Auxiliary reservoir and Brake cylinder
779. The pressure of Auxiliary reservoir makes to work -
 (a) Common pipe bracket (b) Brake cylinder
 (c) Control Reservoir (d) DV
780. With what pressure of AR twin pipe system works -
 (a) BP Pressure only (b) FP Pressure only
 (c) BP&FP Pressure (d) BC Pressure
781. Dropping BP pressure to do full service application is -
 (a) 2.0 to 3.0 kg/ cm² (b) 3.0 to 3.2 kg/ cm²
 (c) 1.3 to 1.6 kg/ cm² (d) 1.5 kg/ cm²
782. When isolating handle of C3W type DV is kept in horizontal at charging position -
 (a) Piston rods of BC come out
 (b) Piston rod of BC close not come out
 (c) Brake applies and releases
 (d) Nothing happens
783. The control reservoir is mounted on the other face of –
 (a) Distributor valve (b) Brake cylinder
 (c) Common pipe bracket (d) Auxillary reservoir

784. The main BP pressure in brake van of working train with 56 wagon is -
 (a) $4.8 \pm 0.1 \text{ kg/cm}^2$ (b) $4.5 \pm 0.1 \text{ kg/cm}^2$
 (c) $6.0 \pm 0.1 \text{ kg/cm}^2$ (d) None of the above
785. If C3W type DV is manually released, pressure is released from -
 (a) AR (b) Control reservoir
 (c) Brake cylinder (d) All above
786. During twin pipe charging position, air pressure in Auxiliary Reservoir is -
 (a) 6.5 kg/cm^2 (b) 5.8 kg/cm^2
 (c) 6.0 kg/cm^2 (d) None of the above
787. In air brake system the rate of leakage should not be more than -
 (a) $0.025 \text{ kg/cm}^2/\text{min}$ (b) $0.25 \text{ kg/cm}^2/\text{min}$
 (c) $0.0025 \text{ kg/cm}^2/\text{min}$ (d) $0.255 \text{ kg/cm}^2/\text{min}$
788. For running 1200mt long train, it is essential to have -
 (a) Single pipe graduated release air bk. System
 (b) Twin pipe graduated release air bk. System
 (c) Single & double pipe-graduated release air bk. System
 (d) None of the above
789. The std. free heights and exert force of BC return spring is -
 (a) 600 mm- 200 kg/cm² (b) 700 mm- 250 kg/cm²
 (c) 730 mm- 125 kg/cm² (d) 800 mm- 100 kg/cm²
790. When isolating handle of KE type DV is kept in horizontal at charging position -
 (a) Piston rods of BC come out
 (b) Piston rod of BC close not come out
 (c) Brake applies and releases
 (d) Nothing happens
791. The total no. of MU washer in a twin pipe wagon is –
 (a) 4
 (b) 4 palm & rubber sealing ring
 (c) 4 coupling head no washer
 (d) 6
792. 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
793. The function of Non return valve used in air brake system is -
 (a) To prevent flow of BP
 (b) To prevent flow of air from AR to FP
 (c) To prevent flow of Air from CR to BP
 (d) To prevent CR to be charged
794. What type of grease to be used after cleaning and inspection all parts of slack adjuster?
 (a) Graphite grease (b) Servogan - 2
 (c) Servo- germ 4 (d) None of the above
795. 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
796. Pay load of BTPN tank wagon is –
 (a) 58.88 tons (b) 54.28 tons
 (c) 55.80 tons (d) 52.3 tons
797. Axle load of BTPN tank wagon is –
 (a) 20.32 tons (b) 22.35 tons
 (c) 21.35 tons (d) 25.22 tons

798. Inspection of thickness of H₂SO₄ barrel carried out with –
 (a) D- meter (b) C- meter
 (c) L- meter (d) MN – meter
799. Barrel length of BTPN tank wagon is –
 (a) 11460 mm (b) 11550 mm
 (c) 11458 mm (d) 12100 mm
800. Barrel diameter of BTPN tank wagon is –
 (a) 2860 mm (b) 2850 mm
 (c) 2840 mm (d) 2830 mm
801. Distance between copular to coupler of BTPN tank wagon is –
 (a) 12420 mm (b) 12560 mm
 (c) 12600 mm (d) 12345 mm
802. During Hydraulic testing of master valve in tank wagon, the water to be filled up to
 (a) 130 Cm (b) 150 Cm
 (c) 180 Cm (d) 200 Cm
803. Thickness of rubber lining of fragile disc and safety bent is –
 (a) 3 mm (b) 5 mm
 (c) 4 mm (d) 6 mm
804. Distance between Headstock to Headstock of BTPN tank wagon is
 (a) 11499 mm (b) 11569 mm
 (c) 11491 mm (d) 11591 mm
805. What is the inside barrel diameter of the TPGLR tank wagon?
 (a) 2100 mm (b) 2230 mm
 (c) 2300 mm (d) 2330 mm
806. Length over Headstock of the TPGLR tank wagon is -
 (a) 9252 mm (b) 8382 mm
 (c) 9632 mm (d) 4326 mm
807. Tare weight of the TPGLR tank wagon is -
 (a) 17.82 t (b) 17.32
 (c) 18.2 t (d) 17.1 t
808. The mechanical code of bogie Patrol tank wagon fitted with pneumatic brake is -
 (a) BTPAN (b) BTPAM
 (c) BLPAM (d) BPTWN
809. The mechanical code of bogie Liquefied anhydrous ammonia gas tank wagon is -
 (a) BTAL & BTALN (b) TBS & BTSA
 (c) AST & TSMBA (d) TBT& MBTOX
810. The mechanical code of caustic soda tank wagon is -
 (a) CTB & CTBS (b) TCS & BTCS
 (c) THA & BTCS (d) TCS& MBTS
811. The mechanical code of Lubricating oil tank wagon is -
 (a) MBTOV (b) TORX
 (c) TRP (d) BTCS
812. The mechanical code of bitumen tank wagon type is -
 (a) TBT (b) TBAT
 (c) TRP (d) TPR
813. No of safety valves fitted in sulphuric acid tank is -
 (a) One (b) Two
 (c) Three (d) None of the above
814. No. of pressure release valve fitted in sulphuric acid tank is -
 (a) One (b) Two
 (c) Three (d) None of the above
815. No. of safety valve fitted in liquefied petroleum gas tank is -
 (a) One (b) Two
 (c) Three (d) None of the above

816. Codal life of Tank wagon is -
 (a) 35 year (b) 45 year
 (c) 50 year (d) 25 year
817. No of safety vent with frangible disc fitted in sulphuric acid tank wagon is -
 (a) One (b) Two
 (c) Three (d) None of the above
818. How many no of safety vent with frangible disc fitted in liquid chlorine tank wagon is
 (a) One (b) Two
 (c) Three (d) None of the above
819. What is the hydraulic test pressure in the barrel of chlorine tanks wagon?
 (a) 43.7 kg/ Cm² (b) 47.8 kg/ Cm²
 (c) 41.23 kg/ Cm² (d) 49.93 kg/ Cm²
820. What is the hydraulic test pressures in a barrel of LPG tanks wagon?
 (a) 26.36kg/ Cm² (b) 23.7 kg/ Cm²
 (c) 28.33 kg/ Cm² (d) 33.23 kg/ Cm²
821. In the tank wagon, close the master valve after -
 (a) Un loading (b) Loading
 (c) Running (d) None of the above
822. In the tank wagon, close the vapour extractor cock after -
 (a) Un loading (b) Loading
 (c) Running (d) None of the above
823. What is the estimated weight of Phosphoric acid tank barrel?
 (a) 6.54 t (b) 7.54 t
 (c) 7.12 t (d) 8.27 t
824. The diameter of master valve of BTPN tank wagon is –
 (a) 90 mm (b) 100 mm
 (c) 110 mm (d) 200 mm
825. What is the density of LPG at 55° C?
 (a) 0.470 to 0.499 (b) 0.499 to 0.677
 (c) 0.677 to 0.899 (d) 0.899 to 0.999
826. Thickness of barrel plate (Cylindrical portion) of BTPGL tank barrel is-
 (a) 10 mm (b) 12 mm
 (c) 15 mm (d) 18 mm
827. Thickness of barrel plate (Dished ends) of BTPGL tank barrel is –
 (a) 10 mm (b) 12 mm
 (c) 15 mm (d) 17 mm
828. Volumetric capacity of BTALN tank barrel is –
 (a) 60.66 Cu.m (b) 66.60 Cu.m
 (c) 70.33 Cu.m (d) 71.12 Cu.m
829. Corrosion allowance of BTALN tank barrel is –
 (a) 1.0 mm (b) 1.5 mm
 (c) 2.0 mm (d) 2.5 mm
830. What type of brake system used in BTAL tank wagon?
 (a) Air brake (b) Vacuum brake
 (c) Bogie mounted brake (d) Duel brake
831. Volumetric capacity of Liquefied Chlorine tank barrel is –
 (a) 15.22 Cu.m (b) 12.175 Cu.m
 (c) 14.22 Cu.m (d) 17.15 Cu.m
832. Overall width of Liquid Chlorine tank wagon is –
 (a) 2708 mm (b) 2705 mm
 (c) 2805 mm (d) 2900 mm
833. Working pressure of BTPN safety valve is –
 (a) 1.4 Kg/cm² (b) 4.1 Kg/cm²
 (c) 2.1 Kg/cm² (d) 1.2 Kg/cm²

834. Bogie centers of Phosphoric acid tank wagon are –
 (a) 8000 mm (b) 8400 mm
 (c) 8800 mm (d) 8900 mm
835. Hydraulic Testing of TCL tank barrel is carried out at –
 (a) 44.5 kg/ Cm² (b) 48.3 kg/ Cm²
 (c) 47.3 kg/ Cm² (d) 43.7 kg/ Cm²
836. What is the location of safety valve fitted in sulphuric acid tank wagon?
 (a) Inside dome (b) Outside dome
 (c) Outside on barrel (d) None of the above
837. Condemning limit of BLC wheel set is –
 (a) 900 mm (b) 800 mm
 (c) 670 mm (d) 780 mm
838. Maximum height of side frame from Rail level of container bogie type LCCF 20 (C) trolley is –
 (a) 851 mm (b) 715 mm
 (c) 932 mm (d) 786 mm
839. In BLC wagon, width over sole bar at centre line wagon is –
 (a) 2200 mm (b) 2100 mm
 (c) 2150 mm (d) 2180 mm
840. 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
841. How many load side bearers are fitted in BLC wagon?
 (a) 4 (b) 6
 (c) 5 (d) 2
842. What is the measurement of 'A' dimension of BFKI?
 (a) 65±5 mm (b) 67±3 mm
 (c) 60+2 mm (d) 58+3 mm
843. In place of empty load box what device is used in BLC wagon?
 (a) BSD (b) LSD
 (c) SDF (d) SAB
844. As per RDSO standard what shall be the Max. Allowed speed of BFKI?
 (a) 75 Km/h (b) 80 Km/h
 (c) 100 Km/h (d) 110Km/h
845. What is the material specification of BLC wagon trolley?
 (a) Cast steel (b) Low cast steel
 (c) Steel (d) Micro steel
846. At the time of load distribution what is the percentage of load come on centre pivot?
 (a) 10% (b) 15%
 (c) 20% (d) 25%
847. 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
848. What shall be maximum length of container platform in BLC wagon?
 (a) 30 feet (b) 28 feet
 (c) 299 feet (d) 32 feet
849. The standard height of platform for BLC wagon from Rail level is –
 (a) 1010 mm (b) 1015 mm
 (c) 1009 mm (d) 1100 mm
850. The axle load capacity of BLC wagon is –
 (a) 20.10 ton. (b) 20.32 ton.
 (c) 21.10 ton. (d) 23.10 ton.

851. 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
852. 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
853. 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
854. In BLC wagon, height of slackness drowbar system from Rail level is –
(a) 890 mm (b) 848 mm
(c) 845 mm (d) 910 mm
855. Length of over coupler for A-car of BLC wagon is –
(a) 14566 mm (b) 14556 mm
(c) 14655 mm (d) 14255 mm
856. How many automatic twist locks used in BLC wagon?
(a) 6 (b) 8
(c) 10 (d) 12
857. Distance between bogie centers of BLC wagon is –
(a) 9678 mm (b) 9687 mm
(c) 9765 mm (d) 9675 mm
858. Minimum height of side frame bottom from Rail level of container bogie type LCCF 20 (C) trolley is –
(a) 149 mm (b) 156 mm
(c) 178 mm (d) 123 mm

MISCELLANEOUS

859. What is MEMU?
a) Modified Electric Multiple Unit
b) Mainline Electric Multiple Unit
c) Modern Electric Multiple Unit
d) Mixed Electric Multiple Unit
860. What is DHMU?
a) Diesel Hydraulic Multiple Unit
b) Diesel Hydro Multiple Unit
c) Diesel Hydroelectric Multiple Unit
d) Diesel Hydroelectrically Multiple Unit
861. What is EMU?
a) Electronic Multiple Unit
b) Electronic Mixed Unit
c) Electric Multiple Unit
d) Electric mixed Unit
862. What is DEMU?
a) Diesel Electric Multiple Unit
b) Diesel Electrical Mixed Unit
c) Direct Electric Multiple Unit
d) Direct Electrical Multiple Unit
863. Maximum speed of 1400 HP DEMU?
a) 100 KMPH
b) 120 KMPH
c) 110 KMPH
d) 80 KMPH
864. Fuel capacity of 1400 HP DEMU?
a) 3000 Ltrs
b) 4000 Ltrs
c) 5000 Ltrs
d) 3500 Ltrs
865. Maximum RPM of 1400 hp DEMU engine?
a) 1800
b) 700
c) 1200
d) 1300
866. Rating of EMU transformer is
a) 1200 KVA
b) 1000KVA
c) 800 KVA
d) 1100KVA
867. Voltage rating of EMU Traction Motor is
a) 500 V
b) 580 V
c) 535 V
d) 550 V
868. New wheel diameter of EMU Motor Coach/Trailer coach
a) 900 mm
b) 950 mm
c) 850 mm
d) 952 mm
869. Total auxiliary motors in EMU motor coach are
a) 5
b) 4
c) 3
d) 2
870. Total No. of traction motors in a EMU Motor Coach is
a) 2
b) 3
c) 4
d) 5
871. The Safety device provided in EMU for detecting gassing and the protection of Transformer is
a) OLP
b) TTR
c) BUD
d) PRV
872. The Safety device fitted in the EMU Transformer for its protection against explosion
a) PRV
b) OLP
c) BUD
d) TTR
873. The Ampere hour capacity of EMU battery is
a) 80 Ah
b) 90 Ah
c) 100 Ah
d) 75 Ah
874. In EMU, the setting of Parking brake governor cut in/cut out is
a) 6.0/7.0 kg/cm²
b) 3.3/4.3 kg/cm²
c) 2.6/3.2 kg/cm²
d) 4.0/5.0 kg/cm²
875. In EMU the setting of MCP Governor cut in /cut out is
a) 5.0/6.0 kg/cm²
b) 7.0/8.0 kg/cm²

- c) 4.5/5.5 kg/cm² d) 6.0/7.0 kg/cm²
876. In EMU one of the following is a part of brake controller
 a) Tripple valve b) Equalising discharge valve
 c) Safety valve d) Application magnet valve
877. In EMU one of the following is a part of EP unit
 a) Tripple valve b) Equalising discharge valve
 c) Puppert valve d) Self lapping cylinder
878. In EMU the setting of equipment governor cut in/cut out is
 a) 4.5/5.5 kg/cm² b) 2.2/3.8 kg/cm²
 c) 4.2/3.3 kg/cm² d) 4.4/5.2 kg/cm²
879. In EMU the BC Pressure for MC is
 a) 2.0 kg/cm² b) 1.6 kg/cm²
 c) 3.5 kg/cm² d) 1.5 kg/cm²
880. In EMU the BC Pressure for TC is
 a) 2.0 kg/cm² b) 1.6 kg/cm²
 c) 1.2 kg/cm² d) 1.5 kg/cm²
881. In EMU the MR Pressure is
 a) 5.0 kg/cm² b) 6.0 kg/cm²
 c) 7.0 kg/cm² d) 8.0 kg/cm²
882. The type of Traction Motor used in EMU is
 a) 4001 BX b) 4601 BX
 c) 6040 BX d) None of the above
883. The wheel diameter condemn limit for MC is
 a) 952 mm b) 900 mm
 c) 877 mm d) 857 mm
884. The wheel diameter condemn limit for TC is
 a) 952 mm b) 900 mm
 c) 877 mm d) 857 mm
885. The width of EMU coach is
 a) 3250 mm b) 3600 mm
 c) 3650 mm d) 3660 mm
886. The No of teeth in EMU traction motor pinion is
 a) 19 b) 20
 c) 55 d) 91
887. The gear ratio in EMU is
 a) 1 : 4 b) 1 : 5
 c) 1 : 4.55 d) 1 : 5.55
888. The type of EMU pantograph is
 a) AM-10 b) AM-12
 c) AM-14 d) None of the above
889. The type of strip used in EMU pantograph is
 a) Metalised carbon (b) Carbon
 (c) Mild steel (d) None of the above
890. The pantograph strip thickness condemn limit is
 a) 2.5 mm b) 3.5 mm
 c) 4.5 mm d) None of the above
891. The control voltage in EMU is
 a) 110 V AC b) 230 V AC
 c) 110 V DC d) 230 V DC
892. The rating of EMU traction motor is
 a) 150 KW b) 535 KW
 c) 230 KW d) 167 KW

893. The rating of EMU Transformer is
 a) 1000 KVA
 c) 25 KVA
 b) 535 KVA
 d) 50 KVA
894. The type of cooling of transformer oil is
 a) OFAF
 c) AF
 b) OF
 d) None of the above
895. The voltage of primary winding of EMU transformer is
 a) 25 KV
 c) 782 V
 b) 266 V
 d) None of the above
896. The voltage of Secondary winding of EMU transformer is
 a) 25 KV
 c) 782 V
 b) 266V
 d) None of the above
897. The voltage of Auxiliary I winding of EMU transformer is
 a) 25 KV
 c) 782 V
 b) 266 V
 d) None of the above
898. The voltage of Auxiliary II winding of EMU transformer is
 a) 141 V
 c) 782 V
 b) 266 V
 d) None of the above
899. The capacity of oil pump in EMU is
 a) 363.6 lpm
 c) 360 lpm
 b) 263.6 lpm
 d) 400 lpm
900. The No of main poles in EMU traction motor is
 a) 2
 c) 6
 b) 4
 d) None of the above
901. The setting of thermostat in EMU transformer is
 a) 75 ° C
 c) 65 ° C
 b) 85 ° C
 d) None of the above
902. The BDV stands for
 a) Break down value
 c) Break drop voltage
 b) Break down voltage
 d) None of the above
903. The BDV for new filtered oil for transformer is
 a) 40 KV
 c) 30 KV
 b) 60 KV
 d) None of the above
904. The capacity of main compressor in EMU is
 a) 900 lpm
 c) 500 lpm
 b) 1000 lpm
 d) None of the above
905. The rating of MCP in EMU is
 a) 12 HP
 c) 20 HP
 b) 10 HP
 d) None of the above
906. The No of carbon brushes in TM are
 a) 2
 c) 6
 b) 4
 d) 8
907. The condemning size of TM carbon brush is
 a) 32 mm
 c) 35 mm
 b) 40 mm
 d) None of the above
908. The type of TM suspension in EMU is
 a) Fixed
 c) Mounting pad
 b) Axle hung nose suspended
 d) None of the above
909. The type of Schaku coupler in EMU is
 a) Semipermanent
 c) Screw coupling
 b) Permanent suspended
 d) None of the above
910. The location of Air Dryer in EMU is

- a) HT compartment
c) Rear of MC
- b) LT compartment
d) None of the above
911. The location of ASL in EMU is
- a) HT compartment
c) Bogie
- b) LT compartment
d) None of the above
912. Rating of MEMU transformer is
- a) 1200KVA
c) 800 KVA
- b) 1000KVA
d) 1100KVA
913. Voltage rating of MEMU Traction Motor is
- a) 500V
c) 535V
- b) 580V
d) 550V
914. New wheel diameter of MEMU Motor Coach/Trailer coach
- a) 900 mm
c) 850 mm
- b) 950 mm
d) 952 mm
915. Total auxiliary motors in MEMU motor coach
- a) 5
c) 3
- b) 4
d) 2
916. .Total No.of traction motors in a M?EMU Motor Coach
- a) 2
c) 4
- b) 3
d) 5
917. The Safety device provided in MEMU for detecting gassing and the protection of transformer is:
- a) OLP
c) BUD
- b) TTR
d) PRV
918. The Safety device fitted to the MEMU Transformer for its protection against Explosion.
- a) PRV
c) OLP
- b) BUD
D) TTR
919. Maximum acceleration of MEMU, on level tangent track with crush load is
- a)1.2 Kmph/Sec
c) 1.8 Kmph/sec
- b) 1.6 Kmph/Sec
d)1.4 Kmph/Sec
920. The Ampere hour capacity of MEMU battery is
- a) 100 AH
c) 90AH
- b) 75 AH
d) 80 AH
921. Tractive effort of MEMU motor coach with 3 TCs at the time of starting
- a)10 Tonnes
c) 8 Tonnes
- b) 9.6 tonnes
d) 11 Tonnes.
922. IN MEMU, ABB Governor is for
- a) panto reservoir pipe
c) Aux reservoir
- b) MR reservoir
d) Bp reservoir
923. IN MEMU the setting of ABB Governor cut in /cut out is
- a) 6.0/7.0kg/cm²
c) 5.6/4.5kg/cm²
- b) 8.0/9.0 kg/cm²
d) 4.0/5.0 kg/cm²
924. In MEMU the setting of MCP Governor cut in /cut out is
- a) 5.0/6.0 kg/cm²
c) 4.5/5.5 kg/cm²
- b) 7.0/8.0 kg/cm²
d) 6.0/7.0 kg/cm²
925. IN MEMU one of the following is a part of brake controller
- a) Tripple valve
c) Safety valve
- b) equalising discharge valve
d) Application magnet valve
926. IN MEMU one of the following is a part of EP unit
- a) Equalizing valve
c) Puppert valve
- b) Triple valve
d) Self lapping cylinder
927. IN MEMU the setting of equipment governor cut in/cut out is

- c) less than 75 mm
d) none of the above
945. Gross clearance of c class ODC
a) 6" to 9" b) 7" to 9"
c) 8" to 10" d) 4" to 6 "
946. Gross clearance of B class ODC is
a) 6" to 9" b) 7" to 9"
c) 8" to 10" d) 4" to 6 "
947. Sanctioning authority of B class ODC with in division
a) DRM b) COM
c) CRS d) BOARD
948. Expand ICS
a) INTER COMMUNICATION SYSTEM b) INTER COMUTER SYSTEM
c) INTER COOLING SYSTEM d) INTER CONSTANT SYSTEM
949. Axle Load of Non- AC coach is -----ton.
a) 16.0 b) 13.0
c) 20.3 d) 18.3
950. Length of modified brake beam hanger in Indo-German project is -----mm.
a) 325 b) 235
c) 250 d) 150
951. Maximum Flange thickness of worn wheel profile is mm.
a) 22 b) 16
c) 25 d) 28.5
952. Length of anchor link is -----mm.
a) 451 b) 500
c) 580 d) None of these
953. Testing of alarm chain is done at -----Kg weight.
a) 05 b) 10
c) 25 d) 20
954. Greasing of equalizing stay rod is done in-----schedule.
a) A b) B
c) C d) D
955. A dimension of high speed Coach is -----mm.
a) 16±2 b) 18±2
c) 22±2 d) None of these
956. Axle is checked by -----.
a) DPT b) UST
c) Wheel gauge d) None of these
957. Over hauling of Alarm chain system is done after ----- Month.
a) 3 b) 5
c) 9 d) None of these
958. Proof load Capacity of enhance screw coupling is -----ton.
a) 36 b) 70
c) 75 d) 130
959. Permissible limit of Deep flange in wheel is-----mm.
a) 35 b) 50
c) 28 d) 22
960. Lateral and longitudinal guidance to wheel of ICF bogie is taken from
a) Dashpot b) Spring
c) Side bearer d) None of these.
961. Speed of Medical van is fixed at ----- kmph .
a) 100 b) 110
c) 75 d) 120

962. H-type coupler is used in
- a) Coaching stock
c) Engine
- b) Wagon stock
d) none of these.
963. Type of coupler is used in locomotive.
- a) AAR-'E'
c) HTEA type
- b) H-type
d) Alliance –II
964. Horizontal gripping in H-type coupler is.....mm
- a) +/-110
c) +/-80
- b) +/-90
d) +/-100
965. Vertical gripping in H-type coupler is.....mm
- a) +/-110
c) +/-80
- b) +/-90
d) +/-100
966.Draft gear is used with HTEA coupler
- a) RF-361
c) HR-8-1.
- b) HR-40-1
d) none of these
967. In case of fully locked condition of knuckle in H-type coupler, Position of rib should be.....
- a) Vertical
c) 60°
- b)Horizontal
d) 45°
968. Standard distance between knuckle nose & guard arm is.....mm
- a) 127
c) 130
- b) 135
d) None of these.
969. Permissible wear in knuckle nose is.....mm
- a) 10
c) 15
- b) 08
d) 06
970. CBC knuckle is divided into.....zones
- a) 3
c) 2
- b) 4
d) 5
971. Position of CBC knuckle broken from knuckle pivot pin hole is called.....
- a) A-zone
c) C-zone
- b) B-zone
d) D-zone
972. Position of CBC knuckle nose broken after wear is called.....
- a) A-zone
c) C-zone
- b) B-zone
d) D-zone
973. Function of auxiliary anti-creep is done by.....
- a) Lever connecting nose
c) knuckle thrower
- b) locking piece
d) anti rotation lug
974. Size of anti rotation lug is.....mm
- a) 210 X 16X 16
c) 235X12X12
- b) 220X16X16
d) 310X16X16
975. CBC control gauge No. 3 is used to detect the defect of.....
- a) Knuckle
c) knuckle thrower
- b) locking piece
d) toggle
976. Capacity of RF-361 draft gear is.....Kgm
- (a) 5385
(c) 6200
- (b) 5725
(d) 6000
977. Capacity of MK-50 draft gear is.....Kgm
- (a) 5385
(c) 6200
- (b) 5725
(d) 6000
978. Stroke of H-type coupler in tension position is.....mm.
- (a) 58
(c) 65
- (b) 60
(d) 42

979. Stroke of H-type coupler in compressed position is.....mm.
 (a) 80 (b) 60
 (c) 65 (d) 42
980. Revised codal life of blanket used in linen is.....months.
 (a) 14 (b) 48
 (c) 60 (d) 30
981. Quality of linen to be inspected.....percentage after receiving washed linen.
 (a) 1 (b) 2
 (c) 3 (d) 5
982. The periodicity of pest control in AC coaches is.....
 (a) 15days (b) 7 days
 (c) 1 month (d) None of these.
983. Coach holding capacity of a coaching depot is.....
 (a) Primary Coaches (b) Secondary coaches
 (c) Primary + 50% of Secondary coaches (d) None of these.
984. Side bearer oil level is cheked at the interval of
 (a) 15 days (b) one month
 (c) Two month (d) None of these.
985. Dirt collector should be cleaned at the interval of
 (a) one month (b) Two month
 (c) Three month (d) None of these.
986. Oil is used in dashpot guide?
 (a) Servo RR-3 (b) Servoline 68
 (c) Lithium base grease (d) None of these.
987. The standard thickness of compensating rings is.....
 (a) 2 mm (b) 6 mm
 (c) 4 mm (d) 8 mm
988. Difference of Hardness of both wheels on the same axle should not be more than.....
 (a) 70BHN (b) 35 BHN
 (c) 65 BHN (d) 45 BHN
989. Total length of ICF-axle is
 (a) 2310+0.5/-0.0 (b) 2316+0.5/-0.0
 (c) 2318+0.5/-0.0 (d) None of these.
990. On ICF journal, a taper should not exceed.....mm.
 (a) 0.010/0.015 (b) 0.015/0.010
 (c) 0.010/0.025 (d) None of these.
991. The wheel gauge should be measured on.....
 (a) Off load condition (b) Loaded wagon
 (c) Empty wagon (d) None of these.
992. The diameter of buffer plunger face of ICF coaches is.....
 (a) 552 mm (b) 457 mm
 (c) 493 mm (d) 510 mm
993. The distance between two buffers at one end.....
 (a) 1956 mm (b) 1952 mm
 (c) 1976 mm (d) 1992 mm
994. The ICF buffer plunger is made of.....
 (a) Mild Steel (b) Cast Steel
 (c) Cast iron (d) None of these.
995. The capacity of control reservoir of passenger coach is.....
 (a) 6 litre (b) 7 litre
 (c) 9 litre (d) None of these.
996. After reaching on a accident site first step to

- (a) prima facie cause of accident (b) First aid of injured
(c) protection of site (d) arranging food.
997. The time of overcharged protection in control chamber of coaching stock is.....
(a) 25 sec (b) 30 sec
(c) 45 sec (d) None of these.
998. Failure of locomotive is theclass of accident
(a) J (b) N
(c) E (d) P.
999. If gauge is found more than 1682 mm it is termed as.....
(a) Slack gauge (b) Standard gauge
(c) Tight gauge (d) Short gauge.
1000. As per accident manual accidents are classified in 16 categories from A to R excluding.....
(a) B & D (b) I & O
(c) P & Q (d) J & K
1001.does not cover under definition of cattle as per accident Manual.
(a) Cow (b) Elephant
(c) Buffalo (d) Donkey
1002. Rate of variation in cross level per meter is called
(a) Twist (b) Creep
(c) Cant (d) Buckling
1003. The longitudinal movement of rails in the track is called-----
(a) Twist (b) Buckling
(c) Creep (d) Cant.
1004. Cant or Super-elevation is provided at-----
(a) Straight track (b) Left curve only
(c) Right curve only (d) Curves.
1005. Clearance of check rail on the curves in BG.....
(a) 30mm (b) 36mm
(c) 44mm (d) 50mm
1006. Tack Gauge is measured.....mm below the rail top
(a) 13mm (b) 10mm
(c) 14mm (d) 08mm
1007. If gauge is found less than 1670 mm on straight track is termed as.....
(a) Slack gauge (b) Standard gauge
(c) Tight gauge (d) Short gauge.
1008. As compared to IRS bogie in ICF un sprung mass is reduced by.....%
(a) 20% (b) 18.5%
(c) 21% (d) 19%
1009. Modern welding technologies are adopted for welding in ICF reduce weight of bogie compared to IRS by
(a) 40% (b) 25%
(c) 60% (d) 30%

ICF ANSWERS

1	a	26	c	51	d	76	a	101	c	126	a	151	a	176	b
2	c	27	c	52	b	77	c	102	a	127	b	152	d	177	a
3	a	28	b	53	b	78	d	103	a	128	c	153	b	178	b
4	b	29	c	54	c	79	a	104	d	129	c	154	a	179	a
5	c	30	d	55	a	80	c	105	a	130	c	155	c	180	b
6	d	31	b	56	d	81	d	106	d	131	b	156	b	181	a
7	d	32	d	57	c	82	b	107	a	132	c	157	c	182	c
8	c	33	b	58	c	83	c	108	b	133	c	158	c	183	a
9	b	34	c	59	a	84	c	109	c	134	a	159	c	184	d
10	a	35	a	60	c	85	b	110	a	135	a	160	c	185	a
11	d	36	c	61	b	86	a	111	c	136	c	161	b	186	b
12	c	37	c	62	c	87	a	112	d	137	b	162	d		
13	c	38	a	63	c	88	b	113	d	138	a	163	b		
14	b	39	a	64	c	89	a	114	a	139	a	164	c		
15	c	40	c	65	d	90	a	115	a	140	d	165	a		
16	b	41	c	66	b	91	d	116	a	141	c	166	b		
17	a	42	d	67	b	92	b	117	b	142	b	167	b		
18	a	43	c	68	c	93	a	118	b	143	b	168	b		
19	c	44	d	69	d	94	b	119	b	144	d	169	b		
20	a	45	c	70	a	95	a	120	b	145	b	170	a		
21	c	46	d	71	d	96	a	121	a	146	c	171	d		
22	a	47	b	72	d	97	c	122	c	147	a	172	a		
23	c	48	a	73	d	98	c	123	b	148	a	173	a		
24	b	49	b	74	d	99	c	124	b	149	a	174	d		
25	b	50	b	75	a	100	b	125	d	150	b	175	a		

LHB ANSWERS

187	b	223	a	259	c	295	b	331	d	367	c	403	c
188	c	224	c	260	b	296	b	332	c	368	a	404	c
189	b	225	a	261	b	297	b	333	b	369	c	405	c
190	a	226	b	262	a	298	b	334	d	370	b	406	a
191	c	227	b	263	c	299	a	335	a	371	b	407	a
192	a	228	c	264	c	300	b	336	c	372	c	408	c
193	c	229	c	265	b	301	b	337	b	373	c	409	d
194	b	230	a	266	d	302	b	338	a	374	a	410	c
195	b	231	c	267	a	303	a	339	a	375	b	411	d
196	c	232	a	268	c	304	b	340	b	376	c	412	d
197	b	233	b	269	a	305	a	341	b	377	a	413	a
198	c	234	b	270	c	306	b	342	c	378	b	414	c
199	b	235	c	271	a	307	d	343	d	379	c	415	c
200	b	236	a	272	c	308	b	344	a	380	b	416	c
201	c	237	b	273	c	309	d	345	d	381	b	417	c
202	c	238	d	274	a	310	b	346	d	382	b	418	c
203	b	239	c	275	d	311	b	347	c	383	a	419	d
204	b	240	a	276	b	312	b	348	a	384	c	420	d
205	c	241	d	277	d	313	c	349	b	385	b	421	c
206	c	242	b	278	c	314	a	350	a	386	c	422	c
207	c	243	c	279	d	315	c	351	a	387	b	423	c
208	c	244	b	280	c	316	d	352	b	388	a	424	c
209	b	245	c	281	a	317	d	353	d	389	b	425	c
210	c	246	a	282	c	318	b	354	a	390	d	426	d
211	c	247	b	283	c	319	c	355	c	391	b	427	c
212	a	248	a	284	c	320	b	356	c	392	a	428	b
213	c	249	b	285	b	321	a	357	d	393	b	429	d
214	c	250	b	286	b	322	d	358	d	394	c	430	c
215	c	251	c	287	c	323	d	359	c	395	c	431	c
216	b	252	b	288	b	324	b	360	b	396	c	432	d
217	c	253	b	289	a	325	d	361	b	397	c	433	c
218	c	254	a	290	b	326	a	362	c	398	c	434	b
219	d	255	b	291	a	327	a	363	a	399	a	435	c
220	b	256	a	292	b	328	d	364	c	400	c	436	d
221	c	257	b	293	b	329	a	365	b	401	c	437	b
222	d	258	c	294	b	330	c	366	a	402	a	438	c

439	a	476	d
440	b	477	d
441	c	478	a

442	d	479	d
443	c	480	c
444	c	481	a
445	b	482	c
446	a	483	c
447	b	484	d
448	d	485	c
449	c	486	b
450	c	487	b
451	b	488	b
452	b	489	b
453	d	490	d
454	c	491	d
455	b	492	d
456	b	493	d
457	d	494	d
458	d	495	c
459	d	496	c
460	c	497	d
461	a		
462	d		
463	b		
464	c		
465	b		
466	a		
467	c		
468	a		
469	d		
470	c		
471	c		
472	c		
473	a		
474	b		
475	b		

WAGON ANSWERS

498	b	534	b	570	b	606	c	642	b	678	b	714	c	750	b
499	b	535	c	571	d	607	b	643	c	679	d	715	c	751	d
500	b	536	b	572	c	608	a	644	b	680	b	716	c	752	a

501	c	537	b	573	a	609	d	645	b	681	c	717	c	753	d
502	b	538	c	574	a	610	a	646	a	682	b	718	b	754	c
503	a	539	b	575	b	611	b	647	b	683	c	719	b	755	d
504	c	540	a	576	b	612	c	648	b	684	d	720	b	756	d
505	c	541	b	577	d	613	a	649	c	685	a	721	a	757	d
506	a	542	a	578	b	614	b	650	d	686	b	722	b	758	c
507	b	543	a	579	a	615	b	651	a	687	c	723	d	759	c
508	b	544	b	580	d	616	c	652	b	688	a	724	b	760	c
509	a	545	b	581	b	617	a	653	a	689	a	725	c	761	c
510	b	546	b	582	b	618	b	654	c	690	c	726	b	762	c
511	b	547	b	583	d	619	c	655	a	691	b	727	a	763	d
512	d	548	a	584	a	620	c	656	c	692	d	728	c	764	b
513	b	549	c	585	b	621	d	657	a	693	b	729	b	765	d
514	c	550	c	586	c	622	d	658	a	694	a	730	b	766	b
515	b	551	c	587	b	623	b	659	a	695	a	731	b	767	b
516	d	552	b	588	b	624	d	660	a	696	c	732	a	768	c
517	c	553	a	589	a	625	c	661	b	697	b	733	a	769	a
518	c	554	b	590	c	626	c	662	a	698	b	734	b	770	b
519	c	555	b	591	c	627	b	663	a	699	a	735	b	771	c
520	c	556	a	592	a	628	c	664	a	700	a	736	c	772	b
521	b	557	b	593	c	629	c	665	a	701	b	737	c	773	c
522	b	558	a	594	b	630	c	666	b	702	c	738	b	774	b
523	b	559	c	595	c	631	d	667	c	703	b	739	c	775	b
524	c	560	b	596	c	632	a	668	b	704	a	740	d	776	a
525	b	561	c	597	b	633	c	669	a	705	b	741	b	777	a
526	b	562	b	598	c	634	b	670	b	706	a	742	a	778	b
527	c	563	b	599	a	635	b	671	b	707	b	743	c	779	b
528	b	564	c	600	c	636	d	672	b	708	a	744	a	780	b
529	a	565	b	601	a	637	b	673	c	709	a	745	d	781	c
530	a	566	a	602	b	638	c	674	a	710	b	746	c	782	a
531	a	567	c	603	b	639	a	675	a	711	b	747	a	783	c
532	a	568	b	604	d	640	b	676	a	712	c	748	d	784	a
533	c	569	d	605	d	641	a	677	d	713	d	749	c	785	d

786	c	822	b	858	a
787	b	823	a		
788	b	824	b		
789	b	825	a		
790	c	826	c		

791	a	827	d
792	b	828	a
793	b	829	b
794	b	830	b
795	b	831	b
796	b	832	b
797	a	833	a
798	a	834	c
799	c	835	d
800	b	836	d
801	a	837	d
802	b	838	d
803	b	839	b
804	c	840	b
805	c	841	a
806	b	842	c
807	c	843	b
808	a	844	c
809	a	845	a
810	b	846	a
811	b	847	c
812	a	848	b
813	d	849	c
814	a	850	b
815	d	851	b
816	b	852	a
817	a	853	b
818	d	854	c
819	a	855	a
820	b	856	b
821	a	857	d

MISCELLANEOUS ANSWERS

859	a	884	d	909	a	934	b	959	a	984	d	1009	b
860	a	885	d	910	c	935	b	960	a	985	a		
861	c	886	b	911	a	936	c	961	a	986	b		
862	a	887	c	912	b	937	b	962	a	987	b		
863	a	888	b	913	c	938	b	963	a	988	b		

864	a	889	a	914	d	939	b	964	a	989	b		
865	a	890	b	915	a	940	a	965	b	990	b		
866	b	891	c	916	c	941	b	966	a	991	a		
867	c	892	d	917	c	942	a	967	a	992	b		
868	d	893	a	918	a	943	a	968	a	993	a		
869	a	894	a	919	b	944	a	969	a	994	b		
870	c	895	a	920	c	945	d	970	b	995	c		
871	c	896	c	921	b	946	a	971	b	996	c		
872	a	897	b	922	a	947	a	972	b	997	a		
873	b	898	a	923	c	948	a	973	a	998	a		
874	c	899	d	924	d	949	b	974	a	999	a		
875	d	900	b	925	b	950	b	975	a	1000	b		
876	b	901	a	926	b	951	c	976	b	1001	d		
877	a	902	b	927	c	952	a	977	a	1002	a		
878	c	903	b	928	b	953	b	978	b	1003	c		
879	b	904	b	929	b	954	b	979	a	1004	d		
880	c	905	a	930	b	955	c	980	b	1005	c		
881	c	906	d	931	a	956	b	981	b	1006	a		
882	b	907	a	932	c	957	a	982	a	1007	c		
883	c	908	b	933	d	958	c	983	c	1008	b		