



दक्षिण मध्य रेलवे

South Central Railway

Office of the Sr.DME/C&W/SC

3री मंजिल, संचालन भवन 3 rd floor Sanchalan Bhavan,
सिकंदराबाद .71-Secunderabad.

सं.सीएम२२६.सएम.रिक्तीयां.खंड. X No.CM.226.C&W.Vacancies.

दिनांक/Date:25-09-2023

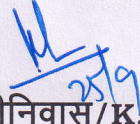
Sr.DPO/SC

विषय /Sub: Selection to the post Chief Instructor/ ATC/SNF in Mechanical
department on SC division.

सन्दर्भ/Ref: Sr.DPO/SC's Lr.No.SCR/P-SC/210(a)/Chief Instructor/EM dt. 24-08-2023.

#

Reference to the letter quoted above, the updated syllabus with question bank (pages 1-104) are enclosed herewith to issue along with notification for the selection to the post of Chief Instructor at ATC/SNF.


(के.श्रीनिवास/K.SRINIVAS)

व.मं.यां.इंजी./समन्वय/ सिकं /Sr.DME/Co-ord/SC

**SYLLABUS FOR WRITTEN EXAMINATION FOR THE POST OF CHIEF
INSTRUCTOR(C&W)-ATC/SNF**

(A) C&W MAINTENANCE

1) Coaching Stock:

- i) Design & Construction features of ICF,LHB & Vande Bharat coaches.
- ii) Passenger amenity fittings & Safety fittings
- iii) Train examination pattern and RPC 4 guide lines
- iv) Maintenance schedules and important maintenance instructions
- v) Design & working principle of CDTS in coaching stock
- vi) Operation & maintenance of H-type CBC in coaching stock
- vii) Latest developments & Modifications on coaching stock
- viii) Important provisions in IRCA part-III&IV
- ix) Introduction of Air brake system
- x) Working principles of Twin pipe Air brake system
- xi) Working of DV
- xii) Brake binding investigation & preventive measures
- xiii) Testing procedures of RTR, SCTR and loco capability etc.

2) Freight stock:

- i) Design features of different types of wagons pertaining to BOX,BOXN&BLC wagons
- ii) Important features of stainless steel wagons and maintenance procedures
- iii) Design & construction features of different types of CASNUB Bogies.
- iv) Types of Train examination patterns and differences of each pattern
- v) Central discharge system in tank wagons
- vi) Door locking arrangement of BOBR wagons
- vii) ODC types and procedure for dealing
- viii) Remedial measures to be taken to avoid train partings
- ix) Introduction of Air brake system
- x) Working principles of Single & Twin pipe Air brake system
- xi) Design difference between the Bogie mounted and Underframe mounted air brake system
- xii) Working of DV & SAB regulator
- xiii) Brake binding investigation & preventive measures
- xiv) Testing procedures of RTR,SWTR and loco capability etc.

(B) SAFETY:

- i) Analysis of derailment of coaches/wagons on C&W account
- ii) Fundamentals of Railway track
- iii) Responsibilities/duties of C&W supervisor at accident/derailment site and restoration and various readings to be taken
- iv) Safety fitting,safety practices and safety precautions in C&W depots & other C&W working areas
- v) Safety parameters of wagons and coaches i.e buffer heights,wheel base,wheeltyre profiles & clearance etc.

(C) STORES:

- i) Inventory control & ABC analysis
- ii) Types of stores i.e Stock& Non-stock procurement
- iii) Types of Tenders & Tender committee levels.
- iv) Imprest store,recoupment and scheduling
- v) Condemnation of Rolling stock
- vi) Knowledge of M&P programme,works programme and Rolling stock programme

(D) GENERAL

- i) Knowledge of Establishment rules like HOER,Leave,Pass,D&A Rules,WC Act,Factory Act,Minimum wages Act,Contract labour Act.
- ii) Basics of Official language

ICF

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

15. Std. packing pieces of ICF coach is –
 - (a) 13,14,26 mm
 - (b) 13,22,28 mm
 - (c) 13,26,38,48 mm
 - (d) 22,26,32 mm
16. Coaching stock accident involving human life enquiry by-
 - (a) CME
 - (b) CRS
 - (c) Sr.DME
 - (d) ADRM
17. Yellow strips on end body of ICF indicate is –
 - (a) Antitclesopic
 - (b) Dual brake
 - (c) In built air brake
 - (d) Non-Antitalescop
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) 11% (b) 10%
 (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) $0.02 \text{ Kg/cm}^2/\text{min}$ (b) $1.0 \text{ Kg/cm}^2/\text{min}$
(c) $0.2 \text{ Kg/cm}^2/\text{min}$ (d) $0.1 \text{ Kg/cm}^2/\text{min}$
63. In emergency application the brake cylinder pressure rises from 0-3.6 kg/cm^2 in –
- (a) 15-20 sec (b) 5-10 sec
(c) 3-5 sec (d) 8-10 sec
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/cm^2 (b) 5.0 Kg/cm^2
(c) 6.0 to .2 Kg/cm^2 (d) 4.8 Kg/cm^2
67. In coaching trains, auxiliary reservoir is charged to -
- (a) 5.0 Kg/cm^2 (b) 6.0 Kg/cm^2
(c) 4.8 Kg/cm^2 (d) 5.5 Kg/cm^2
68. Reduction in BP pressure for minimum application is -
- (a) 1.0 to 1.5 Kg/cm^2 (b) 0.8 to 1.0 Kg/cm^2
(c) 0.5 to 0.8 Kg/cm^2 (d) 0.1 to 0.5 Kg/cm^2
69. Reduction in BP pressure for service application is -
- (a) 1.0 to 0.5 Kg/cm^2 (b) 1.0 to 1.5 Kg/cm^2
(c) 0.5 to 0.8 Kg/cm^2 (d) 0.8 to 1.0 Kg/cm^2
70. Reduction in BP pressure for full service application is -
- (a) 1.0 to 1.5 Kg/cm^2 (b) 0.8 to 1.0 Kg/cm^2
(c) 0.5 to 0.8 Kg/cm^2 (d) 0.1 to 0.5 Kg/cm^2
71. Reduction in BP pressure for emergency application is -
- (a) 1.0 to 1.5 Kg/cm^2 (b) 1.5 to 3.8 Kg/cm^2
(c) 0.5 to 0.8 Kg/cm^2 (d) 3.8 to 5.0 Kg/cm^2
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
 - 1.9 mm
 - 1.8 mm
 - 1.6 mm
92. Water tank capacity of ICF coach is –
- 1600 litres
 - 1800 litres
 - 1500 litres
 - 2000 litres
93. Under shung tank capacity of roof mounted AC coaches fitted with WRA system is –
- 1600 Litres
 - 1700 Litres
 - 1800 Litres
 - 2000 Litres
94. When did first Shatabdi Express train
- 1986
 - 1988
 - 1990
 - 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
 - I section
 - Y section
 - U section
97. What capacity of the equalizing stays of the shatabdi Exp.?
- 22 tons
 - 20 tons
 - 16 tons
 - 14 tons
98. What is amount of the oil per side bearer in ICF coaches?
- 1.2 Litres
 - 1.6 Litres
 - 2.5 Litres
 - 2.2 Litres
99. What is the distance between side bearers of ICF coach?
- 1560 mm
 - 1590 mm
 - 1600 mm
 - 1610 mm
100. What is the oil level in dashpot?
- 50.0 mm
 - 40.0 mm
 - 75.0 mm
 - 90.0 mm
101. What should be the interval of check the dashpot oil in mail/Express train?
- 15 days
 - 25 days
 - one month
 - two month
102. What is the amount of oil per dashpot in 40-mm depth in modified guide arrangement?
- 1.6 Litre
 - 2.5 Litre
 - 2.2 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 then -
(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) Dsh 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 signaling 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 b) 18
c) 9 d) 24
164. IOH periodicity of old ICF coach is _____ months
a) 12 b) 18
c) 9 d) 24
165. IOH periodicity of new ICF coach is _____ months
a) 12 b) 18
c) 9 d) 24
166. Under which schedule, the manual brake release test is carried out on every coach of the rake?
a) C' schedule b) A' schedule
c) 'B 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 b) A' schedule
c) B' Schedule d) Special schedule
168. Under which schedule is single car test carried out?
a) C' schedule b) A' schedule
c) B' Schedule d) None of above
169. Roller bearings used in ICF coaches
a) Cartridge Tapered Roller Bearing b) Spherical Roller bearing
c) Cylindrical Roller Bearing d) Plain Roller bearing
170. Crown clearance on Jana Shatabdhi non AC coach
a) 45 +/- 3 mm b) 45 +/- 2 mm
c) 45 +2- 3 mm c) 45 +3- 3 mm
171. Decode NFTC
a) Natural Fibre Thermoset concrete Material
b) Natural Ferrous Thermoset composite Material
c) NeutralFibre Thermoset composite Metal
d) Natural Fibre Thermoset composite Material
172. Maximum permissible speed during rolling in of a train
a)30 KMPH b)40 KMPH
c)35 KMPH d)25 KMPH
173. Clearance between axle box lug and the bottom of safety strap
a)40 mm b)42 mm
b)35 mm d) 45 mm
174. Man hours required for IOH of a coach
a) 257 man hours b) 254 man hours
c) 255 man hours d) 256 man hours

175. What do you understand by spring stiffness
- | | |
|-----------------------------|-------------------------------|
| a) Load per unit deflection | b) Length per unit deflection |
| c) Load per unit length | d) None of the above |
176. Working piston stroke of Bogie mounted brake cylinder
- | | |
|---------------|--------------|
| a) 60+10 mm | b) 32 mm |
| b) 70+/-10 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 beshifted 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/cm ² in 60 seconds | b) 0.6 kg/cm ² in 6 seconds |
| c) 0.3 kg/cm ² 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 | c) 1.2mm |

LHB & Vande Bharth (Train -18)

- 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 ± 1 mm
c) 1610 mm
d) 1676 ± 1 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 of 14+3 mm web thickness?
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
d) 165 MM

203) How many make CTBUs are used on LHB Coaches?

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

204) What is the maximum temperature limit for TIMKEM CTBU?

a) 90 °C
b) 80 °C
c) 85 °C
d) 87 °C

205) How many types of shock absorbers are used in LHB Coaches?

a) 6
b) 5
c) 4
d) 3

206) How many shock absorbers are used in LHB Coaches?

a) 10 nos.
b) 8nos.
c) 18nos.
d) 12 nos.

207) What is the name of shock absorber connected between bogie and car body?

a) Primary
b) Secondary
c) Yaw.
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
b) 24000 mm
c) 24095 mm
d) 24225 mm

210) What is the height over roof of LHB Coaches?

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

211) Approx. "Riding Index" of LHB Coach -

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

212) Distance between inner wheels of LHB -

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

213) Distance between centre pivots -

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

214) Maximum permissible buffer drop under gross load and worn condition is -

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

215) Trip Maintenance Schedule i.e. D1 of LHB Coach is done –

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

216) D2 Maintenance Schedule of LHB Coach is done -

a) 30 days ± 1days
b) 30 days ± 3days
c) 30 days ± 5days
d) 30 days ± 7days

- 217) D3 Maintenance Schedule i.e. of LHB Coach is done -
 a) 150 days $\pm$ 1days
 b) 120 days $\pm$ 3days
 c) 180 days $\pm$ 15 days
 d) 90 days $\pm$ 7days
- 218) 'SS-I' (Shop Schedule-1) of LHB coach is done -
 a) 1 year
 b) 2 years
 c) 1.5 year/ 6 lakes Kms earned whichever is earlier
 d) 3 years/ 6 lakes Kms earned whichever is earlier
- 219) 'SS-II' of LHB coach is done -
 a) 1 year
 b) 2 years
 c) 1.5 year/ 6 lakes Kms earned whichever is earlier
 d) 3 years/ 12 lakes Kms earned whichever is earlier
- 220) On KM basis 'SS- I' of LHB coach is done -
 a) 5 lakh
 b) 6 lakh
 c) 9 lakh
 d) 12 lakh
- 221) On KM basis 'SS -II' of LHB coach is done -
 a) 5 lakh
 b) 6 lakh
 c) 12 lakh
 d) 24 lakh
- 222) 'SS -III' of LHB coaches is done -
 a) 5 years
 b) 4 years
 c) 3 years/ 12 lakes Kms earned whichever is earlier
 d) 6 years/ 24 lakes Kms earned whichever is earlier
- 223) 'IOH' of LHB coaches is done -
 a) 18 months
 b) 12 months
 c) 9 months
 d) 14 months
- 224) Codal life of LHB coaches is -
 a) 30 years
 b) 25 years
 c) 35 years
 d) None of the above
- 225) Brake power of air brake for Rajdhani coaches from out station is -
 a) 90%
 b) 100%
 c) 85%
 d) 95%
- 226) Length of car body of LHB coach is -
 a) 24000 mm
 b) 23540 mm
 c) 2400 mm
 d) 24430 mm
- 227) To restrict vertical sliding between engine and power car, the device is known as -
 a) Vertical slide protector
 b) Restrictor
 c) Protecting device
 d) None of these
- 228) What is the wheel base of LHB bogie?
 a) 2440 mm
 b) 2696 mm
 c) 2560 mm
 d) 2570 mm
- 229) Side wall of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304M)
 b) IRSM-41
 c) Ferritic steel (SS-409M)
 d) IRSM-44
- 230) Roof sheet of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304)
 b) IRSM-41
 c) Ferritic steel (SS-409)
 d) IRSM-44
- 231) End wall of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304M)
 b) IRSM-41
 c) Ferritic steel (SS-409M)
 d) IRSM-44

- 232) Trough floor of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304) b) IRSM-41
 c) Ferritic steel (SS-409) d) IRSM-44
- 233) Cross members of under frame of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304) b) IRSM-41
 c) Ferritic steel (SS-409) d) IRSM-44
- 234) Thickness of Roof sheets of LHB coaches are -
 a) 2mm & 2.75 b) 1.25 mm & 1.7 mm
 c) 3mm & 3.25 mm d) 2.75 mm & 2.5 mm
- 235) Thickness of Corrugated sheets of LHB coaches are -
 a) 2 mm b) 3 mm
 c) 1.25 mm d) 2.5 mm
- 236) 8. Thickness of side wall sheets of LHB coaches are -
 a) 2 mm b) 3 mm
 c) 1.25 mm d) 2.5 mm
- 237) Sole bar of LHB Coaches are manufactured from -
 a) Austenitic steel (SS 304) b) IRSM-41
 c) Ferritic steel (SS-409) d) IRSM-44
- 238) Thickness of sole bar of LHB coaches is -
 a) 2 mm b) 5 mm
 c) 4 mm d) 6 mm
- 239) Thickness of Roof flange of LHB coaches is -
 a) 2 mm b) 5 mm
 c) 4mm d) 6 mm
- 240) Material of yaw damper bracket of LHB Coaches is -
 a) Cast steel b) IRSM-41
 c) Ferritic steel (SS-409) d) IRSM-44
- 241) Yaw damper is fitted on -
 a) Sole bar b) Bogie
 c) Under frame d) Between under frame and bogie frame
- 242) The Fire Extinguisher used in AC LHB coaches is -
 a) Foam type b) DCP Type
 d) CO2 type d) None of these
- 243) Fire Extinguisher should be refilled -
 a) Every month b) Every 3 months
 c) After 1 year d) On every trip
- 244) Torque value of brake caliper mounting bolt is -
 a) 200 NM b) 170 NM
 c) 150 NM d) 190 NM
- 245) What is the principle of brake system used on LHB coaches?
 a) Single pipe air brake system b) Twin pipe air brake system
 c) Twin pipe with disc brake air brake system d) None of these
- 246) What is the capacity of AR tank?
 a) 200 ltrs b) 75 ltrs
 c) 125 ltrs d) 300 ltrs

- 247) 125 Ltr AR tank used for -
 a) Toilet purpose
 c) Standby
 b) Braking purpose
 d) None of these.
- 248) 75 Ltr AR tank used for -
 a) Toilet purpose
 c) Standby
 b) Braking purpose
 d) None of these.
- 249) What is the capacity of CR TANK?
 a) 5.0 Liters
 c) 9.0 Liters
 b) 6.0 Liters
 d) 8.0 Liters
- 250) Bore size of main BP and FP pipe is -
 a) 45 mm bore
 c) 20 mm bore
 b) 25 mm bore
 d) 18 mm bore
- 251) Diameter of BC line branch pipe is -
 a) 25 mm
 c) 18 mm
 b) 20 mm
 d) 16 mm
- 252) Diameter of brake indicator pipe is -
 a) 18 mm
 c) 15 mm
 b) 10 mm
 d) 20 mm
- 253) When brake indicator shows 'Red', the brake will be -
 a) Released
 c) Indicator defective
 b) Applied
 d) none
- 254) When brake indicator shows 'Green' the brake will be -
 a) Released
 c) Indicator defective
 b) Applied
 d) None of the above
- 255) Brake accelerator is a -
 a) Brake actuating device
 c) Both a & b
 b) Emergency brake application device.
 d) None of these
- 256) Principle application of brake accelerator is -
 a) Emergency braking in each coach of rake
 c) Similar braking in each coach of rake
 b) Partial braking in each coach of rake.
 d) None of these.
- 257) Brake accelerator actuates during -
 a) Every service application
 c) Both a & b
 b) Emergency brake application
 d) None of these.
- 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
 b) 1.6 kg/cm² per minute
 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
 b) 3.5 - 3.0 kg/cm²
 d) 1.5 - 1.0 kg/cm²
- 260) Brake accelerator is connected to -
 a) FP pipe
 c) BC pipe
 b) BP pipe
 d) both a & b
- 261) 'ASD' stands for -
 a) Anti Sleep device
 c) Both a & b
 b) Anti slip device
 d) None of these

- 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. d) None of these
- 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 d) None of these
- 264) The applications of Dump valve is -
 a) Only braking b) Only De-braking
 c) Both braking and de-braking d) None of these
- 265) Electricity required for Dump valve operative -
 a) 110 volt AC b) 24 volt DC
 c) 110 Volt DC d) 230 Volt AC
- 266) Anti skid system is a -
 a) Electronic system b) Pneumatic system
 c) Electro Pneumatic system d) both a & c
- 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 d) None of these
- 268) What is the limit of air gap between sensor and phonic wheel?
 a) 1.0 - 5.0 mm b) 1.0 - 10.0 mm
 c) 0.9 – 1.4 mm d) 1.0 – 2.5 mm
- 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 -
- Temporary fault
 - Permanent fault
 - No fault
 - none of these
- 278) How much pressure dropped when emergency brake pull box pulled?
- 0.4 kg/cm²
 - 1.0 kg/cm²
 - Almost 3 kg/cm²
 - none of these
- 279) Size of choke provided in emergency brake valve is -
- 0.4 mm
 - 2.0 mm
 - 3.0 mm
 - No choke
- 280) What is size of air tube run through coach length?
- 8.0 mm
 - 6.0 mm
 - 10.0 mm
 - 9.0 mm
- 281) 'PEASD' stands for -
- Passenger emergency alarm signaling device.
 - Passenger emergency alert safety device.
 - Passenger emergency alarm short device.
 - None of these
- 282) "PEASD" provided in LHB can be reset -
- From under gear of coach only
 - From anywhere of inside coach
 - From the point where chain pulled.
 - Both a & b
- 283) How one can identify the actual position of chain pulled?
- Pull box will in up position & hissing sound heard
 - Pull box will in down position & hissing sound not heard
 - Pull box will in down position and hissing sound can hear
 - None of these
- 284) Location of isolating cock provided in 'PEASD' in LHB coaches.
- On under gear
 - Near emergency brake valve
 - No isolating cock provided
 - None of these
- 285) When emergency pull box pulled from inside the coach.
- The air pressure slightly dropped.
 - The air pressure dropped.
 - No pressure dropped
 - None of these.
- 286) When emergency chain pulled, brake accelerator will -
- Not respond
 - Respond
 - May be respond
 - None of these.
- 287) Thickness of new brake pad is –
- 28 mm
 - 30 mm
 - 35 mm
 - 32 mm
- 288) Condemning limit of brake pad is -
- 10 mm
 - 7 mm
 - 8 mm
 - 9 mm
- 289) Maximum brake cylinder pressure in kg/cm² is -
- 3.0 ± 0.1 kg/cm²
 - 3.8 ± 0.1 kg/cm²
 - 2.8 kg/cm²
 - 4.0 ± 0.1 kg/cm²
- 290) Maximum gap between brake disc and brake pad is -
- 3mm
 - 1.5 mm
 - 2mm
 - 1 mm
- 291) In built slack adjuster in brake cylinder is -
- Single acting mechanism
 - Double acting mechanism
 - No slack adjuster
 - None of these.

- 292) The brake cylinder is comprises
- | | |
|----------------------------|-----------------------------|
| a) Power portion | b) Slack adjuster mechanism |
| c) Spindle reset mechanism | d) All above |
- 293) How can brake be replaced?
- | | |
|--|-----------------------------|
| a) By opening slack adjuster nut of cylinder | b) By opening brake caliper |
| c) Both a & b. | d) None of these. |
- 294) Actual size of tool required to open slack adjuster nut of KB brake cylinder is -
- | | |
|----------|----------|
| a) 42 mm | b) 27 mm |
| c) 36 mm | d) 40 mm |
- 295) Correct direction to open slack adjuster nut of 'KB' make brake cylinder is -
- | | |
|--------------------|----------------------|
| a) Anti clock wise | b) Clock wise |
| c) Any direction | d) None of the above |
- 296) 59. Actual size of tool required to open slack adjuster nut of 'SAB' brake cylinder is -
- | | |
|----------|----------|
| a) 46 mm | b) 42 mm |
| c) 47 mm | d) 45 mm |
- 297) Dia of 'SAB' make brake cylinder is -
- | | |
|-----------|-----------|
| a) 250 mm | b) 256 mm |
| c) 245 mm | d) 255 mm |
- 298) Max. length of brake pad is -
- | | |
|-----------|-----------|
| a) 330 mm | b) 400 mm |
| c) 350 mm | d) 375 mm |
- 299) Friction area of brake pad is -
- | | |
|------------------------|------------------------|
| a) 400 cm ² | b) 300 cm ² |
| c) 350mm | d) 375 cm ² |
- 300) If brake cylinder pipe pressure is below 0.6 bars, the brake indicator shows -
- | | |
|-----------------------|-----------|
| a) Red | b) Green |
| c) Half R, Half Green | d) Yellow |
- 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 | d) Yellow |
- 302) What is the diameter meter of brake disc?
- | | |
|-----------|-----------|
| a) 110 mm | b) 640 mm |
| c) 70 mm | d) 125 mm |
- 303) Brake disc made up of -
- | | |
|-----------------------|---------------|
| a) Gray Cast iron | b) Cast steel |
| c) Special cast steel | d) none |
- 304) Fins provided between the brake discs -
- | | |
|----------------------------------|------------------------|
| a) For strengthening to the disc | b) For cooling of disc |
| c) None of these | d) Both a & b |
- 305) The brake disc fitted on a same axle at the distance is -
- | | |
|------------|------------|
| a) 1030 mm | b) 1070 mm |
| c) 1100 mm | d) 1125 mm |
- 306) Distance of brake disc from inner face of wheel is -
- | | |
|-----------|-----------|
| a) 195 mm | b) 175 mm |
| c) 250 mm | d) 210 mm |
- 307) How many types of brake system being used in LHB coaches -
- | | | | |
|--------|---------|--------|----------|
| a) One | b) Four | c) Two | d) Three |
|--------|---------|--------|----------|

- 308) Which type of air brake system being used on LHB coaching stock?
- Single pipe air brake system
 - Twin pipe disc brake system
 - Twin pipe air brake system
 - Vacuum brake system
- 309) What are main advantages to adopt disc brake system on LHB coaches?
- Wear and tear on wheels is minimized
 - Over all life of wheels is increased
 - Effective braking than old system
 - All above
- 310) How many brake discs are provided on one axle?
- One
 - Two
 - Three
 - Four
- 311) The Fins provided in between the brake discs for -
- To minimized weight of brake disc
 - To provided effective cooling during braking
 - To provided strength to break disc
 - To increase friction property of brake disc
- 312) How many brake discs are provided on one power car?
- One
 - Eight
 - Three
 - Four
- 313) How many brake discs provided on LHB coaches are -
- Four
 - Twelve
 - Eight
 - Sixteen
- 314) Lateral and longitudinal guidance of FIAT bogie is made by _____?
- Articulated control arm
 - Secondary suspension
 - Antiroll bar
 - Traction lever
- 315) To avoid tilting while curve negotiation, LHB coaches are fitted with _____?
- Traction lever
 - traction rod
 - Antiroll bar
 - Control bar
- 316) How many brake cylinders are provided on LHB coach?
- 3
 - 2
 - 1
 - 4
- 317) How many brake cylinders are uses in a LHB type coaches.
- 1
 - 6
 - 12
 - 8
- 318) Outer diameter of main BP pipe line is -
- 20mm
 - 28 mm
 - 30 mm
 - 40 mm
- 319) Outer diameter of main FP pipe line is -
- 20 mm
 - 40 mm
 - 28 mm
 - 30 mm
- 320) Outer diameter of main BC pipe line is -
- 20 mm
 - 18 mm
 - 22 mm
 - 10 mm
- 321) Brake caliper unit mounted on -
- Bogie cross beam
 - Bogie side frame
 - Wheel axles
 - Any of above
- 322) By pass system is used in brake system when -
- F.P pipe broken
 - B.P Pipe broken
 - Hose pipe broken
 - Any of these

- 323) Single pipe system is used in brake system when -
 a) F.P pipe broken
 b) B.P Pipe broken
 c) Hose pipe broken
 d) Any of these
- 324) What will you do when one end BP angle cock leakage enroute -
 a) By pass the coach
 b) Single pipe the train
 c) Isolate the line from T- joint
 d) Any of above
- 325) Brake caliper unit should be checked for -
 a) Corroded part
 b) Worn out pins
 c) Free leverage
 d) All above
- 326) Brake caliper unit mounted with the help of -
 a) M16x60 bolt
 b) M 12x 60 mm bolt
 c) M 24X60 mm bolt
 d) M 20 x60 mm bolt
- 327) Torque required for brake caliper mounting bolt is -
 a) 170 nm
 b) 60 nm
 c) 200nm
 d) 190 nm
- 328) Brake caliper jammed when -
 a) Middle pin corroded
 b) Brake pad pin worn out
 c) Brake cylinder lose
 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
 b) Cracked bellowed
 c) Bent bellow
 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 connected 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 BC gauge shows pressure
 b) Only FP gauge shows pressure
 c) Both BP & FP gauge shows pressure
 d) Only BP gauge shows pressure
- 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/cm² 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) Loosen slack adjuster nut of brake cylinder b) Check WSP fault
 c) Remove brake caliper pin d)) Check dump valve
- 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) Hitting 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) Number of duplex check valves fitted in air spring bogie
- a) 02
 - b) 04
 - c) 01
 - d) 03
- 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) 550 NM
 - c) 350 NM
 - d) 200 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) Min. thickness of shim required for increase of buffer height -
a) 5 mm b) 3 mm
c) 10 mm d) 15 mm
- 384) What is new Wheel dia (in mm) of Vandhe Bharath Train?
a.925 b.915 c.952 d.906
- 385) Condemnation limit of Wheel dia(in mm)used in Vandhe Bharath(Train -18 is____
a.855 b.877 c.892 d.906
- 386) Tacho generator is placed at_____ in Tain-18.
a. Over control arm b. WSP cabinet
c. Axle front cover d. Over traction motor
- 387) What is the Max Test speed of Vandhe bharath(Train -18) in Kmph?
a.166 b.176 c.186 d.196
- 388) What is the Max Service speed of Vandhe bharath(Train -18) in Kmph?
a.160 b.150 c.170 d.180
- 389) Maximum axle load of axle used in Vandhe bharath(Train -18) is____
a.16T b.17T c.18T d. 19T
- 390) How much % of coaches powered in Vandhebharath (Train -18)?
a.65 b.55 c.60 d. 50
- 391) Which type of material is used to make car body of Vandhebharath (Train -18) coaches?
a. FRP b. Stainless steel c. Nickel Chromium steel d. Ferritic steel
- 392) How many coaches are powered in a Basic Unit (BU) of Vandhe bharath (Train -18)?
a.2 b.1 c. 3 d. 4
- 393) In which car Traction motors are equipped in Vandhe bharath (Train -18)?
a. Trailer car b. Motor car c. Driving trailer car d. Non driving trailer car
- 394) From which car Current collection through pantograph takes place in Vandhe bharath (Train -18),
a. Motor car b. Driving trailer car c. Trailer car d. Non driving trailer car
- 395) How many number of seats in Excutive chair car in Vandhe bharath (Train -18)
a.72 b.62 c.52 d.82
- 396) Which of the following arrangement is available in primary suspension of Vandhebharath (Train -18)?
a.Control arm only b.Air spring only
c. Coil spring with control arm d. Coil spring only
- 397) Which type of brake system is used in Vandhe bharath (Train -18)?
a. Electro Magnetic
b. Graduated application and release through A9 valve
c. Electro Pneumatic
d. Graduated application and release through SA9 valve
- 398) Where is disk brake system mounted in Vandhe bharath (Train -18)
a) Axle b. Wheel tread c. Wheel d. None of the above
- 399) Basic Unit (BU) in Train-18 consists of _____
a) DTC+MC+TC+MC b) MC+TC+MC+DTC c) MC+NDTC+MC+DTC d) NDTC+TC+TC+MC
- 400) What is the full form of DTC in Train-18?
a) Dead trailing Car b) Dead end Trailer Coach
c) Driving Trailer Coach d) Double Trailing Car

- 401) What is the full form of MC in Train-18?
a) Motor Car b) Medical Car c) Motor Coach d) Middle Coach
- 402) What is the full form of TC in Train-18?
a) Trailer Coach b) Trailer Car c) Travelling Coach d) Traction Car
- 403) What is the full form of NDTC in Train-18?
a) Normal Driving Testing Coach b) Non Driving Traction Car c) Non-Driving Trailer Coach
d) Non of the above.
- 404) In which between stations first Train-18 is introduced?
a) New Delhi-Jhansi b) New Delhi-Agra c) New Delhi- Varanasi d) New Delhi-Indore
- 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 earthling 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 weariness
 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 not 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 -
- 630 ltr.
 - 640 ltr.
 - 400 ltr.
 - 450 ltr.
- 478) What is the purpose to provide water level indicator on water tanks -
- Availability of water
 - Capacity of water tank
 - Location of water tank
 - None of these
- 479) What is the purpose to provide sensor on water tank?
- Availability of water
 - Capacity of water tank
 - Location of water tank
 - To provide signal to pump control
- 480) The sensor is provided on -
- All water tanks
 - Two water tanks
 - One water tank
 - None of these
- 481) The pump control shows "EMPTY" even the water tank is full of water it means.
- Sensor may defective
 - No water in the tank
 - Both A & B
 - None of these
- 482) If the primary spring of an axle box is weak it can be identified by -
- Measuring the distance between control arm top and bogie frame
 - Measuring the distance between control arm bottom and bogie frame
 - Measuring the deflection of primary damper
 - Measuring the distance between control arm lug and safety pin
- 483) If the luggage door top stopper is missing -
- The luggage door will not close
 - The luggage door will not open
 - The luggage door lock will not operate
 - Either A or B
- 484) If the dump valve continuous venting the reason may be –
- Dump valve is defective
 - Dump valve electrical supply disturbed
 - Dump valve stuck up in actuating position
 - WSP is defective
- 485) What is the corrective action if dump valve is venting continuously -
- Reset the WSP system
 - Rearrange the WSP system
 - Pull out dump valve connector and reconnect
 - Replace the dump valve
- 486) The dump valve works only during -
- Emergency braking
 - Service application
 - Deference in speed of wheel
 - Deference in diameter of wheel
- 487) If the speed of all axles is same and emergency braking is applied the dump valve will -
- Does not respond
 - Definitely respond
 - Only one will respond
 - May be respond
- 488) If the speed of all axles is Different and emergency braking is applied the dump valve will -
- Does not respond
 - Definitely respond
 - Only one will respond
 - May be respond
- 489) If the speed of all axles is Different in a coach during the emergency braking the dump valve will respond
- Whole the rake
 - All dump valve of the coach
 - Particular dump valve of the coach
 - None of these
- 490) The correct action of axle box feeling by manually is
- Hold the bare hand on the axle box for 5 minutes
 - Hold the bare hand on the axle box for some times
 - Instant touching of axle box by bare hand
 - 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) 23.2 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 E type CTRB the grease use per Axle box is -
 (a) 390 ± 20 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) 4.5 kg/Cm^2 (b) 3.7 kg/Cm^2
 (c) 4.8 kg/Cm^2 (d) 5.8 kg/Cm^2
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 ± 0 mm (b) 172 ± 3 mm
 (c) 175 ± 4 mm (d) 175 ± 1 mm
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 ± 2 mm (b) 27 ± 2 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/ Cm^2 (b) 8.0 to 10.0 Kg/ Cm^2
 (c) 10.0 to 12.0 Kg/ Cm^2 (d) 12.0 to 15.0 Kg/ Cm^2
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 lateral 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 in BVG 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. For maintenance manual of BOXN wagon, What RDSO's technical pamphlet is used?
- (a) G-16 (b) G-73 (c) G-18 (d) G-70
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 pamphlet is used?
- (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 pamphlet is used?
- (a) G-97 (b) G-81
(c) G-73 (d) G- 71
611. As per latest Railway Board guidelines, division In effective percentage of wagon is –
- (a) 3.5% (b) 1.5%
(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) 7500 Km (d) 6500 Km
613. BPC of premium rake valid up todays.
- (a) 12+3 days (b) 10+3 days
(c) 15+3 days (d) 20+3 days
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 BOXN Wagon during service is -
 (a) 906 mm (b) 960 mm
 (c) 860 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 E type CTRB the grease use per Axle box is -
 (a) 390 ±20 gms (b) 490±15 gms
 (c) 500±35 gms (d) 550±20 gms
677. Maximums 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 B0I 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 Frieight 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/Cm^2 (b) 3.2 Kg/Cm^2
 (c) 3.8 Kg/Cm^2 (d) 4.1 Kg/Cm^2
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 ± 1 mm

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 brake 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 $\pm$ 4 days (b) 10 $\pm$ 2 days
 (c) 15 $\pm$ 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) 25mm
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 ± 0.1Kg/ 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) 4.8K0.1kg/cm² (b) 4.5K0.1kg/ cm²
 (c) 6.0K0.1kg/ cm² (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) 6.5kg/ cm² (b) 5.8 kg/ cm²
 (c) 6.0 kg/ cm² (d) None of the above

787. In air brake system the rate of leakage should not be more than -
 (a) 0.025 kg/ cm² /min (b) 0. 25 kg/ cm²/min
 (c) 0.0025 kg/cm²/min (d) 0.255 kg/ cm²/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 outside 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

SAFETY

Choose the Correct one

859. The derailment is classified as _____ class accident
- a) A
 - b) B
 - c) C
 - d) D
860. Normally the length of re-railing bridges is available in any set of HRE is ____ mts
- a) 4.2
 - b) 2.2
 - c) 2.3
 - d) 3.1
861. Normally the HRE is used to _____ Derailed rolling stock.
- a) Re-rail
 - b) Push
 - c) Pull
 - d) None.
862. The PSC sleeper designed gauge is _____ mm
- a) 1676
 - b) 1600
 - c) 1673
 - d) 1670
863. The chord length measuring versine _____ metre.
- a) 10
 - b) 20
 - c) 15
 - d) 30
864. The inverter in Plasma arc cutting machine is equipped with _____
- a) Petrol Engine
 - b) Electric Operated Motor
 - c) Kerosene engine
 - d) Pneumatic
865. The control table is a device which connects with _____ nos. of Hydraulic jacks in HRE.
- a) 2
 - b) 3
 - c) 4
 - d) 5
866. Full form of NDRF is _____
- a) National Disaster Railway force
 - b) National Disaster Response Force
 - c) National Drone Force.
 - d) National Disaster Rescue Force.
867. The maximum cant is permitted in a curve is _____mm
- a) 150
 - b) 125

- c) 175
 - d) 75
868. The permissible vertical wear of 52 kg rail is _____ mm
- a) 6
 - b) 8
 - c) 5
 - d) 13
869. The GMT for 60 kg Rail is _____
- a) 625
 - b) 500
 - c) 525
 - d) 425
870. Maximum length of re-railing bridges is available in any set of HRE is ____ mts
- a) 4.2
 - b) 2.2
 - c) 3.3
 - d) 4.4
871. The MRV shall move within _____ min after siren sounds during night
- a) 25
 - b) 30
 - c) 20
 - d) 15
872. Maximum length of longer Buffer casing is ____ mm
- a) 584
 - b) 456
 - c) 635
 - d) 406
873. Testing frequency of rails for GMT 8 to 12 is _____ Months:
- a) 3-month
 - b) 6-month
 - c) 9-month
 - d) 12-month.
874. Main Engine of 140 Ton DHBD Crane is located in _____
- a) Under-carriage
 - b) Super-structure
 - c) Driver's Cabin
 - d) Relieving Bogie.
875. The permissible vertical wear of 60 kg rail is _____ mm
- a) 6
 - b) 8
 - c) 5
 - d) 13
876. The SPMRV shall move within _____ min after siren sounds during Day
- a) 25
 - b) 30
 - c) 20
 - d) 15

877. The height of 52 kg rail section is
 a) 143 mm
 b) 156 mm
 c) 172 mm
 d) 129 mm
878. Which type of fire extinguisher must not be used in case of electrical base fire?
 a) Halon Extinguisher
 b) Carbon chloride extinguisher
 c) Foam extinguisher
 d) Dry Powder extinguisher
879. Bleeding can be controlled by all method except _____
 a) Compression
 b) Pour Hot water
 c) Tourniquet
 d) Lift the limb above the head
880. The type of HRD is used for demonstration is _____
 a) LUCAS
 b) Holmetro
 c) Weber
 d) Libervit
881. Site sketch is prepared by _____
 a) Traffic Inspector
 b) SSE P-Way
 c) SSE C&W
 d) CLI
882. The lighting arrangement is done at accident site by
 a) Electrical –TRD
 b) Electrical General
 c) Electrical TRO
 d) Electrical-AC
883. The length of re railing bridge is _____ meter
 a) 3.4
 b) 1.5
 c) 2.5
 d) 4.4
884. _____ is the site in charge till the arrival of an officer at accident site.
 a) AC Mechanic
 b) Loco Pilot
 c) TTE
 d) Train Manager
885. Earth moving equipment's at accident site are arranged by _____ Dept
 a) Engg.
 b) Mech
 c) Commercial
 d) Electrical Traction
886. The loading capacity of Aux. Hoist in 140 Ton DHBD Crane is _____

- a) 140 Ton
 - b) 5 Ton
 - c) 25 Ton
 - d) 22.9 Ton
887. The radius of 6-degree curve is _____
- a) 292m
 - b) 300m
 - c) 219m
 - d) 400m
888. The min length of re railing bridge is _____ meter
- a) 2.2
 - b) 1.5
 - c) 1.1
 - d) 4.4
889. The wheel Gauge or the wheel distance is measured between _____ of the two wheels on the same axle.
- a) Outer Rim
 - b) Flange
 - c) Inner Rims
 - d) None of these
890. The Buffer Height is measured from _____ to the Centre line of the buffer casing.
- a) Rail Table
 - b) Rail Web
 - c) Rail Foot
 - d) Rail Head
891. ABC fire Extinguisher can be used for _____ class of fire
- a) Class B & Class E fire
 - b) Class B & Class A fire
 - c) Class A, Class B & Class C fire
 - d) Class B & Class D fire
892. The HRE Power pack tank is filled with _____ liters of Hydraulic oil.
- a) 25
 - b) 34
 - c) 45
 - d) 54
893. The maximum degree of curve adopted in IR is _____
- a) 9
 - b) 10
 - c) 8
 - d) 4

894. The payment of ex gratia compensation to the passengers is arranged by _____
- Operating
 - Engineering
 - Commercial
 - Electrical
895. ABC fire Extinguisher should not be used for _____ type of material fire
- Wood fire
 - Energized electrical fire
 - Petroleum fire
 - Aluminum fire
896. The first for bleeding is _____.
- Direct pressure
 - Immobilization
 - Tying bandage
 - Ice pack
897. Which of the following device used in HRE for operating the lifting & traversing jacks
- Control desk
 - Telescopic rams
 - Traversing unit
 - Special jacks
898. Formula for super elevation is _____
- $e = v / 225r$
 - $e + f = v^2 / 127R$
 - $e = v / 225R$
 - None of these
899. The full form of HRE is _____
- Heavy Railing Equipment
 - Hydraulic Rescue Engine
 - Hydraulic Re railing Equipment
 - Hydraulic Recovery Equipment
900. The full form of SPART _____
- Self Propelled Accident Relief Train
 - Special Purpose Accident Relief Train
 - Self Propelled Accident Recovery Train
 - Special Passenger Accident Relief Train
901. The High-level committee has given _____ no of recommendations.
- 99
 - 98
 - 100
 - 111
902. The full form of HLC _____
- High Level Committee
 - High Level Conference
 - High level commission
 - High level corporation

903. The disaster management act come in force during _____ year.
- 2003
 - 2005
 - 2002
 - 2008
904. In HRD _____ & _____ devices are used for connecting cutting tools
- Hydraulic Pump & Power Unit
 - Hydraulic pump & Ram Jack
 - Hydraulic pump & Hose
 - Hydraulic pump & Air bottle
905. The formula for radius of curved track is _____
- $r = c^2 / 10v$
 - $r = c^2 / 6.5v$
 - $r = c^2 / 5v$
 - $r = c^2 / 8v$
906. In fire fighting removal of fuel is called as _____.
- Igniting
 - Cooling
 - Starvation
 - Smoothening
907. In HRD _____ device is used for cutting of window rods.
- Cutter
 - Ram Jack
 - Gas Cutting
 - Spreader
908. CPR stands for _____
- Cardiopulmonary Reuse
 - Cardiopulmonary Resuscitation
 - Cardiopulmonary Rescue
 - Cardiopulmonary Resource
909. _____ is used for moving the lifted load in HRE
- Displacing Jack
 - Hydraulic jack
 - Lifting jack
 - Hydraulic Pump
910. The CBRN Type of disasters B stands for _____ accidents
- Bimetallic
 - Biological
 - Bomb
 - Bio medical
911. In HRD _____ device is used for expanding of gap
- Spreader
 - Cutter
 - Ram Jack
 - High Pressure air bag

912. In firefighting PASS is _____
a) Pull, Aim, Squeeze, and Sweep.
b) Pull, Attack, Squeeze, and Sweep.
c) Push, Aim, Squeeze, and Sweep.
d) Pull, Aim, Squeeze, and Sleep.
913. SLI stands for _____
a) Safe Load Indicator
b) Self load indicator
c) Service load indication
d) System load indication
914. In fire fighting Cooling means _____
a) Limiting smoke
b) Limiting heat
c) Limiting temperature
d) Limiting oxygen
915. First aid for fractures is _____
a) Splint
b) Apply Ice Bag
c) Stop Bleeding
d) CPR
916. The height of 60 Kg rail is _____ mm
a) 176mm
b) 190mm
c) 180mm
d) 160mm
917. The Cowan Sheldon 140TDHBD Cranes are maintained by the work shop of
a) Jamalpur, ER
b) Parel, CR
c) Kharagpur, SER
d) Mysore, SWR
918. The Nadal's Formula Y/Q (Y =Lateral Flange Force, Q =Vertical Force) is normally less than _____ for No derailment.
a) 1.4
b) 2
c) 2.4
d) 3.4
919. The Winching operation in 140T Crane meant for
a) Rotation
b) Lowering
c) Pulling
d) None

920. The target time for moving MRV from the nominated station in double exit _____ in mins.

- a) 30
- b) 45
- c) 15
- d) 20

921. The Purpose of Match Truck in 140T crane is

- a) Jib resting
- b) C/W Resting
- c) Ropes resting.
- d) All the above.

922. The main function of SLI in 140T Crane is

- a) Slewing purpose
- b) Derricking purpose
- c) Winching purpose.
- d) Safety against over loads/angles/less counters weights.

923. Joint Readings on Track are taken in rear of POM up to

- a) 45m
- b) 90m
- c) 300m
- d) 1000m

924. The Maximum thickness of solid MS Rod cut by Hydraulic Cutter is

- a) 20mm
- b) 30mm
- c) 40mm
- d) 50mm

925. ARMVScale-I consists of _____no of coaches.

- a) 01
- b) 02
- c) 03
- d) 04

926. A-Class ART consists of _____no. of coaches and wagons with Crane.

- a) 3C +2W
- b) 4C+3W
- c) 5C+2W
- d) 5C+3W

927. The 161 CC engine of power pack for HRD consists of _____in HP.

- a) 5
- b) 10.7
- c) 15
- d) 20

928. The full form of HRD is

- a) Hydraulic Re-Railing Device
- b) Hydraulic Rescue Device
- c) Hydraulic Road Vehicle Device
- d) Hydraulic Rod cutter Device.

929. The HRD is considered as
- a) Cold Cutting equipment
 - b) Hot Cutting equipment
 - c) Plasma Cutting equipment
 - d) Electric cutting Equipment.
930. Distance bar in HRE Tool list is used for
- a) Connecting two vertical jacks
 - b) For simultaneous movement between two traversing trolley of jacks laterally
 - c) Measuring the distance of wheels
 - d) Measuring the distance of rails.
931. The capacity of the BEMCOHRE Power pack (Petrol) model PEP5.5 is
- a) 5.5HP
 - b) 9HP
 - c) 15HP
 - d) 20HP
932. Bridge coupling is a device for HRE used for
- a) Connect two rails
 - b) Connect two aluminum girder bridges
 - c) Connect two engines
 - d) Connect two Jacks.
933. The full form of HRE is
- a) Hydraulic Re-Railing Equipment
 - b) Hydraulic Rescue Equipment
 - c) Hydraulic Road Vehicle Equipment
 - d) Hydraulic Rod cutter Equipment
934. The Maximum capacity of Hydraulic Jack available in BEMCOHRE is
- a) 63T
 - b) 136.2 T
 - c) 120T
 - d) 140T
935. The Viscosity of oil used in hydraulic Jacks of BEMCOHRE is
- a) 68
 - b) 78
 - c) 100
 - d) 150
936. One of the Equipment used in ART is Trifor which is used for
- a) Pulling the vehicles
 - b) Pushing the vehicles
 - c) Pulling and pushing
 - d) Pulling and lifting purpose.
937. The capacity of displacing jack used for lateral movements in BEMCOHRE is
- a) 169/93 KN
 - b) 15/10 KN
 - c) 20/10 KN
 - d) 30/40 KN

938. The standard prime mover in HRE of IR is
- a) Petrol or Diesel Engine
 - b) Electric Operated Motor
 - c) Hydraulic
 - d) Pneumatic
939. The control table is a device which connects with _ nos. of Hydraulic jacks in HRE.
- a) 2
 - b) 3
 - c) 4
 - d) 5
940. The maximum pressure developed by High Pressure HRDpower packs is _____ in kg/cm².
- a) 700
 - b) 300
 - c) 400
 - d) 500
941. The de-compression point provided in BEMCO, control stand is meant for
- a) To remove air lock
 - b) Oil lock
 - c) Repair of HP hose
 - d) None.
942. Normally maximum length of Re-railing Bridge(Beam) in any make of HRE in IR is _____ in meters.
- a) 3.3
 - b) 3.5
 - c) 4.4
 - d) 4.5
943. Normally the HRE is used to ____ /Derailed rolling stock.
- a) Re-rail
 - b) Push
 - c) Pull
 - d) None
944. The High Pressure hoses are tested at a pressure of
- a) 1.5 times
 - b) 2 times
 - c) 3 times
 - d) 2.5times
945. Normally the nos. of re-railing bridges are available in any set of HRE are
- a) 4
 - b) 4.4
 - c) 2.2
 - d) 3

946. The Disaster Management Act, 2005 has been enacted as the central Act to deal with the management of disasters. This act envisaged a three tier Disaster Management structure in India at
- a) National, States & District levels.
 - b) National, International & States
 - c) None of these
 - d) National, International & Districts.
947. When was High level committee recommendations came into existence
- a) April-2003
 - b) 2005
 - c) 2007
 - d) 2018
948. Where is the Head Quarters of NDMA
- a) New Delhi
 - b) Bombay
 - c) Chennai
 - d) Kolkata.
949. What is the full form of NDMA
- a) National Disaster Management Authority
 - b) National Disaster Management Association
 - c) National Disaster Management Application
 - d) None of these
950. How many NDRF battalions are functioning in India?
- a) 10
 - b) 11
 - c) 12
 - d) 15
951. Full form of NDRF is
- a) Native Disaster Railway force
 - b) National Disaster Response Force
 - c) National Drone Force.
 - d) Native Drone Railway force.
952. Indian Railway Disaster Management Plans at zonal railways are approved by
- a) NDMA
 - b) SDMA
 - c) RB
 - d) PCSO of zones.
953. How many recommendations are there in HLC headed by Sh. Dasarathi committee
- a) 11
 - b) 51
 - c) 91
 - d) 111

954. Who is the Chairman of NDMA?
- a) PM
 - b) President
 - c) Vice President
 - d) Head of Armed forces.
955. As per the HLC recommendation no. , IRIDM/SBC formed
- a) 85
 - b) 95
 - c) 100
 - d) 111
956. Who is the Chairman of SDMA?
- a) Chief Minister of respective state
 - b) District Collectors
 - c) Police Commissioner
 - d) None
957. How many Teams are there of NDRF in India
- a) 22
 - b) 25
 - c) 23
 - d) 23
958. As per statistical reasons accidents are classified in alphabets
- a) A to R(16classes)
 - b) A to J(10classes)
 - c) A to M(13classes)
 - d) A to D(4classes)
959. As per statistical reasons Collision comes under:
- a) Class 'A' Accident
 - b) Class 'B' Accident
 - c) Class 'C' Accident
 - d) Class 'D' Accident
960. As per statistical reasons Fire comes under:
- a) Class 'A' Accident
 - b) Class 'B' Accident
 - c) Class 'C' Accident
 - d) Class 'D' Accident
961. As per statistical reasons LC Gate Accidents comes under:
- a) Class 'A' Accident.
 - b) Class 'B' Accident
 - c) Class 'C' Accident
 - d) Class 'D' Accident
962. As per statistical reasons derailment Accidents comes under:
- a) Class 'A' Accident.
 - b) Class 'B' Accident
 - c) Class 'C' Accident
 - d) Class 'D' Accident

963. Accident can be declared as Disaster by the authority
- a) GM of a Zone or (AGM in absence of GM or PCSO in absence of GM and AGM).
 - b) DRM
 - c) Sr. DME
 - d) CRS
964. What is the Standard Gauge Length of Broad Gauge track
- a) 1600mm
 - b) 1676mm
 - c) 1696mm
 - d) 1000mm
965. What is the Standard length of One Rail in BG track
- a) 10meters
 - b) 11meters
 - c) 12meters
 - d) 13meters
966. If sleeper density is M+5, then no. of sleepers provided in 13 meters will be
- a) 16nos
 - b) 18nos
 - c) 19nos
 - d) 20nos
967. If Sleeper density is M+7, then no. of sleepers provided in 13 meters will be
- a) 20nos
 - b) 15nos
 - c) 19nos
 - d) 25nos
968. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 880 denotes
- a) Ultimate Tensile Strength
 - b) Ultimate Compression Strength
 - c) Upper Yield Strength
 - d) Lower Yield Strength
969. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then O denotes
- a) Hydrogen supplied furnace
 - b) Oxy acetylene furnace
 - c) Oxygen Killed Furnace used
 - d) Oil furnace
970. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then SAIL denotes
- a) Mfg Company
 - b) Type of Rail
 - c) Mfg method
 - d) Composition
971. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 52 denotes
- a) Type of rail.
 - b) Length of Rail
 - c) Ultimate tensile Strength
 - d) Year of Mfg

972. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then V denotes
- a) Month of Manufacture i.e. May
 - b) Month of Manufacture i.e. June
 - c) Month of Manufacture i.e. July
 - d) Month of Manufacture i.e. August
973. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 96 denotes
- a) Year Built.
 - b) Month of Mnfg
 - c) Tensile Strength
 - d) Compression Strength
974. Railway Track fasteners are
- a) ERC or Pandrol clip
 - b) Liner
 - c) Grooved Rubber Sole Plate
 - d) None of the above
975. Versine is measured when the accident takes place in
- a) Curves
 - b) Points
 - c) Curves and Points& Crossings
 - d) Crossings
976. In the case of Accident Joint Track Readings are taken from POM or POD
- a) Ahead: 45meters& Rear: 90meters.
 - b) Ahead: 50meters& Rear: 100meters.
 - c) Ahead: 40meters& Rear: 90meters.
 - d) Ahead: 30meters& Rear: 80meters.
977. When a Wagon is derailed in main line, Joint readings are signed by
- a) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Track Inspector)
 - b) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Ticket Inspector)
 - c) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Traffic Inspector)
 - d) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Train Inspector)
978. The Wheel Base of CASNUB Bogie is
- a) 2.0 m
 - b) 2.5 m
 - c) 3.0 m
 - d) 4.0 m
979. The Wheel Base of ICF Coach is
- a) 2.89 m
 - b) 2.56 m
 - c) 3.0 m
 - d) 4.0 m
980. The Wheel Base of LHB Coach is
- a) 2.89 m
 - b) 2.56 m
 - c) 3.0 m
 - d) 4.0 m

STORES:

981. The items which are not required frequently but are still necessary to maintain a stock for ready use, this type of stores are termed as
- (a) Special stores
 - (b) Miscellaneous stores
 - (c) Ordinary stores
 - (d) Emergency stores
982. The store items are codified indigit number?
- (a) 10
 - (b) 08
 - (c) 05
 - (d) 12
983. Under which of following group, C&W parts are listed
- (a) 00-08
 - (b) 10-19
 - (c) 21-28
 - (d) 30-39
984. In PL no 21074119, what does 9 indicates?
- (a) Major headings
 - (b) Subgroups
 - (c) Minor groups
 - (d) Check digit
985. The check digit in items code is meant for
- (a) To check the correctness of a group
 - (b) To check the correctness of sub group
 - (c) To check the correctness of PL no
 - (d) None of these
986. Which of the following is not the source of material in Railways?
- (a) Indigenous purchase
 - (b) Imports
 - (c) Loan of stores for mother Railways
 - (d) None of these
987. Which of following is called inventory?
- (a) Finished Goods
 - (b) Raw Materials
 - (c) Scrap
 - (d) All of these
988. What is certified in propriety article certificate?
- a) No other brand issuitable
 - b) The is only firm that is manufacturing /stocking the item
 - c) A similar article is not manufactured/sold by any other firm which could be used in lieu
 - d) All of these
989. Which of the following methods is used for scrap disposal?
- (a) By caution
 - (b) Through tender
 - (c) Through direct sale
 - (d) All of these

990. Dead stocks should be verified after?
- (a) Five years
 - (b) Three years
 - (c) One year
 - (d) Six month
991. Who verifies the stock?
- (a) ACOS
 - (b) Inspector of storedepartment
 - (c) Account clerk
 - (d) Stock verifier
992. The stock of imprest stores are verified after every.....
- (a) Six months
 - (b) Two years
 - (c) One year
 - (d) None of these
993. Which of the following is the objective of stock verification?
- a) The materials in stock are of description and as shown in numerical ledgers
 - b) Excess instock
 - c) Deficiency in stock
 - d) All of these
994. Earnest money is the payment made by contractor to
- a) See the seriousness of the contractor
 - b) Use as safeguard in the event of failing to undertake the work.
 - c) Both a&b
 - d) None of these
995. Which of following points is considered while putting a firm in the list of approved vendor?
- (a) Past experience of firm for handling the same job
 - (b) Annual turnover & financial solvency
 - (c) Technical ability of firm
 - (d) All of these
996. Which of following is not the type of tender
- (a) Open Tender
 - (b) Limited tender
 - (c) Single Tender
 - (d) None of these
997. Single tender invited when
- a) There is only one known manufacturer
 - b) The work is of highly technical / specialized nature
 - c) There is accident
 - d) All of these
998. The items which have not been issued for past two years and are not likely to be used with in next two years, are known as?
- (a) Surplus store
 - (b) Movable surplus store
 - (c) Dead surplus store
 - (d) None of these

999. The items which have not been issued for past 2 years and may be used in coming future, are known as ?
- (a) Surplus store
 - (b) Movable surplus store
 - (c) Dead surplus store
 - (d) None of these
1000. Cash imprest is a standing advance of a fixed sum of money to meet
- a) Petty office expenses
 - b) Cost of raw material for the list of indoor patients of hospital
 - c) Emergent charges which cannot be foreseen
 - d) All of these
1001. Why is inventory needed?
- a) Improve and/or maintain the desired customer service level
 - b) Meet demand fluctuations
 - c) Quantity purchases at low prices
 - d) All of these
1002. Passenger amenities in coaches can be classified as item
- (a) Vital
 - (b) Essential
 - (c) Desirable
 - (d) None moving
1003. The Imprest cash can be sanctioned by DRM in a division and CWM in a workshop, up to
- (a) Rs.50,000
 - (b) Rs.1,00,000
 - (c) Rs.1,50,000
 - (d) Full power
1004. For buying small items through cash imprest, a single quotation is sufficient for Purchase up to
- (a) Rs100
 - (b) Rs.2000
 - (c) Rs.500
 - (d) Rs.1000

Knowledge of M&P programme, works programme and Rolling stock programme

1005. Planning activity demands a high level of -----
- a) Conceptual thinking
 - b) visionary thinking
 - c) both a & b
 - d) None of these
1006. Planning involves an integrated approach for creation of-----
- a) Infrastructure
 - b) Machinery and Plant
 - c) Human resources
 - d) All of these
1007. The objective of Rolling Stock Programme is -----
- a) Acquisition of rolling stock
 - b) To carryout major repairs on rolling stock
 - c) To procure Capital/Unit exchange spares
 - d) All of above

1008. Planning activity is initiated at ----- level on Indian Railways
 a) Corporate planning at Railway Board level b) Zonal level
 c) Unit/ Divisional level d) All of these
1009. Planning activity is initiated at ----- levels on Indian Railways
 a) One level b) Two levels c) Three levels d) None of these
1010. Which of the following is considered for making investment decisions in planning activity.
 a) Meeting increased traffic needs
 b) Improving customer focus
 c) Improving quality and train Safety
 d) All of above
1011. Which of the following plan head is not covered under Demand No.16
 a) Plan Head -21 b) Plan Head -41 c) Plan Head -42 d) Plan Head -52
1012. Demand No.16 covers the following plan heads
 a) Plan Head -21 b) Plan Head -41 c) Plan Head -42 d) All of these
1013. Which of the following is required for 'Under aged' condemnation of rolling stock
 a) M268 form b) condition report c) condition report d) all of these
1014. Rolling stock continued on line beyond codal life for any type of service with the Approval of competent authority is considered as
 a) Authorized stock b) overaged stock
 c) Departmental stock d) underage stock
1015. Approval of ----- is required for normal condemnation of Electric Locos either last POH before the expiry of codal life or thereafter
 a) PCME b) PCEE c) CWE d) none of these
1016. Inspection authority for under-aged condemnation of mainline coaches and trailer coaches on condition basis
 a) PCME b) PCEE c) CWM d) CWE
1017. Inspection authority for under-aged condemnation of accident damaged wagons
 a) CWM b) CRSE c) Sr.DME d) Sr.DEE
1018. Rolling stock approved for condemnation is disposed through----- department
 a) Mechanical b) Electrical c) Stores d) All of these
1019. Procurement of new rolling stock on replacement account is charged to
 a) DRF b) CAP c) DF d) RRSK
1020. Creation of new assets require
 a) Financial justification b) Rate of Return
 c) Both a & b d) none of these

1021. Itemized Rolling Stock Programme proposals should be sent to Railway Board by ----- of every year
a) 15th September b) 15th October
c) 15th November d) 15th December
1022. Total funds projection under Plan Head 41 in the form of “Works in Progress” statement should be sent to Board by ----- of every year
a) 15th September b) 15th October
c) 15th November d) 15th December
1023. All the M&P used on Indian Railways is divided into ----- categories
a) Two b) Three c) Four d) Five
1024. EOT cranes fall under which category of M&P
a) Category A b) Category B c) Category C d) Category D
1025. Validity period of an item sanctioned under Railway Board M&P Programme
a) years b) years c) years d) years
1026. Umbrella works are of ----- types
a) Two b) Three c) Four d) Five
1027. Which of the following plan head is not included in Umbrella works
a) Plan Head -51 b) Plan Head -41 c) Plan Head -42 d) Plan Head -52
1028. Under umbrella works, initially GM can sanction works, total costing up to ---- of cost of umbrella work of their Railway
a) 40% b) 50% c) 60% d) 70%
1029. Itemized Rolling Stock Programme is prepared in the following formats
a) Programmed deliveries b) New Acquisitions
c) Both a & b d) none of these
1030. All measuring instruments/ Gauges are classified as
a) M&P b) T&P c) RSP d) none of these
1031. Furniture, computers, printers etc. for upkeep of office are classified as
a) M&P b) T&P c) RSP d) none of these
1032. The organization which undertakes the procurement of category ‘A’ M&P is
a) RITES b) COFMOW c) RDSO d) none of these
1033. “Final Grant” will be allotted to the Railways based on
a) August Review b) Revised Estimate
c) Final modification d) none of these
1034. August Review gives
a) a trend on requirement of funds
b) Half yearly trend on utilization of allotted budget
c) Realistic utilization of funds allotted
d) none of these

1035. Revised Estimate gives
 a) a trend on requirement of funds
 b) Half yearly trend on utilization of allotted budget
 c) Realistic utilization of funds allotted
 d) None of these
1036. Final modification gives
 a) a trend on requirement of funds
 b) Half yearly trend on utilization of allotted budget
 c) Realistic utilization of funds allotted
 d) none of these
1037. A machine becomes surplus due to
 a) closure / change in activity b) reduction in workload
 c) Both a & b d) none of these
1038. Successfully commissioned new new machine shall be entered in the ----- register
 a) Day book register b) Inventory register
 c) Asset register d) none of these
1039. A new machine shall be allotted with unified code no. of ----- digits and entered in the asset register
 a) 9 digit b) 11 digit c) 13 digit d) 15 digit
- 1040 -----is the nodal officer for all proposals under Plan Head 42 from various departments.
 a) PCE b) PCEE c) PCME d) PCOM
1041. Works that yield a financial return (RoR) of ----- and above are charged under CAP
 a) 6% b) 10% c) 12% d) 14%
1042. Works which are for developing/ augmenting of some existing facilities are proposed Under----
 a) CAP b) DRF c) DF d) IRFC(EBR)
1043. Plan Head-2100 is for.....
 a) Rolling stock programme b) Machinery and Plant programme
 c) Works programme d) None of these
1044. Plan Head-4100 is for.....
 a) Rolling stock programme b) Machinery and Plant programme
 c) Works programme d) None of these
1045. Plan Head-4200 is for.....
 a) Rolling stock programme b) Machinery and Plant programme
 c) Works programme d) none of these

1046. Amenities for staff come under plan head.....
 a) PH-4100 b) PH-4200 c) PH-5200 d) PH-5300
1047. Passenger amenities come under plan head.....
 a) PH-4100 b) PH-4200 c) PH-5200 d) PH-5300
1048. Rashtriya Rail SanrakshaKosh' (RRSK) has been created in 2017-18 with a corpus of ₹1 lakh crore over a period of five years for-----
 a) Staff welfare works b) Passenger amenity works
 c) Critical safety related works d) none of these
1049. The validity of M&P item sanctioned by the railway board is years.
 a) One year b) Two years c) Three years d) Five years
1050. All the works costing less than ₹ of various departments is included in law book
 a) Less than 50 lakhs b) less than 1.0 crores
 c) Less than 1.5 crores d) less than 2.5 crores
1051. Works costing less than ₹2.5 crores will appear in _____ book
 a) Pink book b) Green book c) Yellow book d) LAW book
1052. Bulk Rolling Stock programme works costing more than ₹2.5 crores appear in _____ pink
 a) Zonal pink book b) LAW book c) Railway Board pink book d) none of these
1053. Itemized Rolling Stock programme works costing more than ₹2.5 crores appear in _____ pink
 a) Zonal pink book b) LAW book c) Railway Board pink book d) none of these
1054. Which demand deals with 'Assets acquisition, construction and replacements' _____
 a) Demand No.5 b) Demand No.6 c) Demand No.10 d) Demand No.16
1055. At zonal level Nodal officer for M&P programme is _____
 a) PCE b) PCOM c) PCME d) None of these
1056. At zonal level Nodal officer for works programme is _____
 a) PCE b) PCOM c) PCME d) None of these
 [Answer: a]
1057. At zonal level Nodal department for RSP works is _____
 a) Engineering b) Operating c) Electrical d) Mechanical
1058. _____ budget allocation presents the funds requirement for asset / infrastructure development.
 a) CAP b) DRF c) DF d) None of these
1059. Railway Board expenditure comes under _____ demand
 a) Demand No.1 b) Demand No.2 c) Demand No.3 d) Demand No.4

1060. Miscellaneous Expenditure (General) comes under _____ demand
a) Demand No.1 b) Demand No.2 c) Demand No.3 d) Demand No.4
1061. Expenditure on 'Repair and maintenance of permanent way and works' comes under _____ demand
a) Demand No.4 b) Demand No.5 c) Demand No.6 d) Demand No.7
1062. Expenditure on 'Repair and maintenance of Motive Power' comes under _____ demand
a) Demand No.4 b) Demand No.5 c) Demand No.6 d) Demand No.7
1063. Expenditure on 'Repair and maintenance of Carriages and Wagons.' comes under _____ demand
a) Demand No.4 b) Demand No.5 c) Demand No.6 d) Demand No.7
[Answer: c]
1064. Expenditure on 'Repair and maintenance of Plant and Equipment' comes under _____ demand
a) Demand No.4 b) Demand No.5 c) Demand No.6 d) Demand No.7
1065. Expenditure on 'Operating Expenses – Rolling Stock and Equipment' comes under _____ demand
a) Demand No.8 b) Demand No.9 c) Demand No.10 d) Demand No.11
1066. Expenditure on 'Operating Expenses – Traffic ' comes under _____ demand
a) Demand No.8 b) Demand No.9 c) Demand No.10 d) Demand No.11
1067. Expenditure on 'Operating Expenses – Fuel ' comes under _____ demand
a) Demand No.8 b) Demand No.9 c) Demand No.10 d) Demand No.11
1068. Expenditure on 'Staff welfare and amenities 'comes under _____ demand
a) Demand No.8 b) Demand No.9 c) Demand No.10 d) Demand No.11
1069. Plan Head No.14 deals with _____ works
a) Gauge conversion b) Doubling c) Computerization d) Track renewal
1070. Plan Head No.15 deals with _____ works
a) Gauge conversion b) Doubling c) Computerization d) Track renewal
1071. Plan Head No.17 deals with _____ works
a) Gauge conversion b) Doubling c) Computerization d) Track renewal
1072. Plan Head No.31 deals with _____ works
a) Gauge conversion b) Doubling c) Computerization d) Track renewal

1073. Developmental Fund (DF-1) is used for ----- works
a) Development fund for Passenger and other railway user's amenities work
b) Development fund for Labor Welfare Works
c) Development fund for non-remunerative works, improvement of operational efficiency
d) Development fund for safety works

1074. Developmental Fund (DF-2) is used for ----- works
a) Development fund for Passenger and other railway user's amenities work
b) Development fund for Labor Welfare Works
c) Development fund for non-remunerative works, improvement of operational efficiency
d) Development fund for safety works

1075. Developmental Fund (DF-3) is used for ----- works
a) Development fund for Passenger and other railway user's amenities work
b) Development fund for Labor Welfare Works
c) Development fund for non-remunerative works, improvement of operational efficiency
d) Development fund for safety works

1076. Developmental Fund (DF-4) is used for ----- works
a) Development fund for Passenger and other railway user's amenities work
b) Development fund for Labor Welfare Works
c) Development fund for non-remunerative works, improvement of operational efficiency
d) Development fund for safety works

General:

a) ESTABLISHMENT rules like Leave, pass, D&A Rules, WC act, Factory act, Minimum wages act and contract labor act

1077 .Conversion of one kind of leave into another shall be considered, if received within _____ days.

- A.10 days B. 20 days C. 30 days D. 40 days

1078. Leave ordinarily begins on the day on which transfer of charge is effected and ends on the day preceding that in which _____.

- A) Resumed B) Returning C)Reported D) None of the above.

1079. CL shall not be combined with any other kind of leave since it is not a _____.

- A) Recognized leave B)On Duty C)Absent from duty D) none

1080. No Railway Servant shall be granted leave of any kind for a continuous period exceeding _____.

- A) 5years B) 4years C 3years D2years

1081. Railway Servant is entitled for credit of _____ days of LAP in a year

- A 15 B 30 C 25 D 60

1082. Leave on average pay is credited in advance in 2 installments of 15 days each on the first day of ____ and ____ every calendar year.
A 1st Jan/1st July B 1st June / 1st Dec C 2nd Jan/3rd June D 1st July/5th July
1083. Ordinarily the maximum leave on average pay (LAP) that may be granted at a time to a railway servant shall be ____ days.
A 50 B 70 C 120 D 180
1084. In the year of appointment, LAP shall be credited to the leave account of an employee at the rate of ____ days for each completed calendar month of service.
A 0 B 5 C 2 ½ D 4
1085. A permanent/temporary Railway Servant shall be entitled to leave on half average pay(LHAP) of ____ days in respect of each completed year of service.
A 20 days B 30 days C 80 days D 10 days
1086. The amount of leave on half average pay that can be availed of in one spell shall be limited to _____.
A 20 months B 24 months C 36 months D 90 days
1087. In the year of appointment, LHAP shall be credited to the leave account of an employee at the rate of ____ days for each completed calendar month of service.
A 4/3 B 2/5 C 5/3 D 5/5
1088. Leave not due is debited against the _____ leave he is likely to earn subsequently after resuming to duty.
A LAP B Hospital leave C LHAP D LWPD
1089. Encashment of LAP upto _____ days shall not exceed in entire career
A 30 days B 60 C 20 D 10
1090. A railway servant while in service can encash LAP upto _____ days at a time in 2 years block period.
A 40 B 10 C 45 D 15
1091. A female Government servant with less than 02 children may be granted maternity leave for .
A 100 B 135 C 180 D 160
1092. CCL for 730 days shall be granted to female railway/single male employee for _____.
A First 2 minor children B Any number of children C Only one child D None
1093. Maximum of the paternity leave is ____ days and shall be availed within ____ months.
A 15days/6months B 1day/ 3months C 2days/ 5months D 11days/ 12months
1094. Not less than ____ days of CCL can be availed at a time.
A 3 B 10 C 5 D 11

1095. _____ leave is granted to a Railway servant who is disabled by injury inflicted or caused in or in consequence of due performance of his official duty or in consequence of his official position.
A Work related illness and injury leave(WRILL) B LAP C LHAP D Hospital
1096. Railway servant who is under WRILL is not entitled to earn _____.
A SP.CL B CLC LAP/LHAPD None of above.
1097. Full pay and allowances shall be granted on account of WRILL is for _____.
A 24 months B Entire period of Hospitalization and Six months Beyond hospitalization
C 32 months D 40 months
1098. Period of Study Leave for technical course shall be granted to Railway servants is
A 24 months B 12 months C 36 months D 21 months
1099. Period of Study Leave for medical PG/PHD course shall be granted to Railway servants is
A 24 months B 12 months C 36 months D 21 months
1100. In a year _____ days of CL is entitled to an employee appointed in an open line staff.
A. 10 days B 11 days C 15 days D None.
1101. As per Hours of Employment Rule employees are classified into _____ number of categories.
A. Four B. Three C. Two D. Six
1102. What is the statutory limit of hours of employment of Intensive Category employee in a week?
A. 60 Hrs B. 45 Hours. C. 75 Hrs D. 54 Hrs.
1103. What is the statutory limit of hours of employment of Continuous Category employee in a week?
A. 60 Hrs B. 45 Hours. C. 75 Hrs D. 54 Hrs.
1104. What is the statutory limit of hours of employment of EI Category employee?
A. 60 Hrs in a week B. 45 Hours in a week. C. 75 Hrs in a week D. 54 Hrs. in a week
1105. Standard Hours of duty of Continuous category of employees is _____ hrs in a week.
A. 48 Hrs B. 45 Hours. C. 75 Hrs D. 42 Hrs.
1106. Waiting Room Bearer comes under _____ Classification
A. Intensive category B. Essentially Intermittent C. Continuous D. Excluded
1107. Weekly Hours of duty including P&C of continuous category of employees is----- Hrs.
A. 60 Hrs B. 45 Hours. C. 72 Hrs D. 54 Hrs.
1108. In the case of Continuous category of employees more than _____ hrs of duty is Long on.
A. 6 Hrs B. 12/14 Hours. C. 10 Hrs D. 8 Hrs

1109. _____ is empowered to classify the employment of Railway Servant
A. DRM B. Head of the Railways (GM) C. UPSC D. Rly Board
1110. Weekly rest for Essentially Intermittent workers is _____ hrs including a full night in bed.
A. 22 consecutive hrs B not less than 30 consecutive hrs
C. 24 consecutive hrs D. Equal to 30 consecutive hrs
1111. Weekly rest of Intensive category of employees is _____ hrs.
A. 22 consecutive hrs B not less than 30 consecutive hrs
C. 24 consecutive hrs D. Equal to 30 consecutive hrs
1112. In which category Railway employees employed in confidential related work are Classified?
A. Essentially Intermittent B. Intensive category C. Continuous D. Excluded
1113. Maximum how many breaks can be there in a split shift?
A. Two. B. Three C. Four D. Single
1114. After how many hours of rest an EI category employee can again be called for duty in a day?
A. 6 Hrs B. 12/14 Hours. C. 10 Hrs D. 8 Hrs.
1115. After how many hours of rest an Intensive category employee can again be called for duty in a day?
A. 6 Hrs B. 12/14 Hours. C. 10 Hrs D. 8 Hrs.
1116. Within how many days Compensatory Off can be sanctioned?
A. 30 days B. 60 days C. 45 days D. no limit
1117. Rough Assessment Job Analysis is conducted for -----hrs?
A. 6 Hrs B. 24Hours. C. 10 Hrs D. 8 Hrs.
1118. For the Railway servants performing split duty, the number of spells of duty shall not exceed ____and the number of breaks shall be limited to ____;
A. Three and Two
B. Three and four
C. Two and four
D. None of the above.
1119. Appeal against classification of employment can be made to_____-
A. General Manager B. DRM C. Regional Labour Commissioner
D. Branch Officer.
1120. The document which shows employee's daily hours of duty, weekly rest and break between spells of duty besides other necessary particulars is called

- A. Duty Chart B. Roster C. Attendance register
D. Overtime Allowance Register

1121. Appointment of Regional Labour Commissioner is made through:
A. Railway Board B. Human Resource Ministry C. Labour Ministry D. Collector
1122. The category of employment in which the employee does not get any rest or very little rest in his duty hours is called:
A. Intensive (B) Continuous (C) Essentially Intermittent (D) Excluded
1123. Allowance that is given to Railway servant for performing duty beyond prescribed hours of employment:
(A) Travelling Allowance (B) Dearness Allowance (C) Overtime Allowance
(D) None among these.
1124. Number periods of rest given to running staff in a month if one period of rest is 30 hrs:
(A) 1 (B) 2 (C) 3 (D) 4
1125. Number periods of rest given to running staff in a month if one period of rest is 22 hrs:
(A) 1 (B) 2 (C) 5 (D) 4
1126. Appeal against the orders of Regional Labour Commissioner can be made to Secretary to the Govt of India Ministry of Labour within _____ days.
(A) 30 (B) 60 (C) 90 (D) 180
1127. What is the weekly hours of duty of the Railway servants other than Gateman 'C' Caretaker of Rest Houses, Chowkidar, Saloon Attendant, who have not been given Railway accommodation and their residence is 1.0 Km away from the place of work?
A. 60 Hrs B. 45 Hours. C. 72 Hrs D. 54 Hrs.
1128. Duty period between 22.00hrs to 06.00hrs is treated as Night duty and paid Night duty allowance (NDA) at hourly rate equal to _____
A. (Basic pay+ DA)/200 B. (Basic pay+ DA)/100. C. (Basic pay)/200 D. None.
1129. Which method of Job Analysis is adopted generally for correct classification of employment?
A. Factual Job Analysis B. Rough assessment C. Issuance of certificate D. None
1130. CTG is granted to the railway servant who is transferred on administrative grounds if transfer between stations is -----Kms
A. 20 kms . B. 30 kms C. 50 Kms D. 8 Kms
1131. TG shall be granted at the rate of _____ of last months basic pay
A. 100% B. 80% C. 75% D. 180%
1132. The Railway servants (Discipline & Appeal) Rules came into force on _____.
A. 1968 B. 1972. C 1966 D. 1978.

1133. _____ form is used for placing a Railway employee under suspension.
A. SF-5 B. SF-11 C SF-1 D. SF-2
1134. Suspension is a -----under D&A Rules, 1968.
A. Penalty B. Not a penalty C. Major penalty D. Minor penalty
1135. Rule No. ____ of The Railway servants (Discipline & Appeal) Rules deals with Suspension.
A. 6 B.7 C.5 D. 1
1136. _____ form is used for Deemed Suspension
A. SF-5 B. SF-4 C SF-1 D. SF-2
1137. Rule No. -----of The Railway servants (Discipline & Appeal) Rules deals with Penalty.
A. 6 B.7 C.5 D. 1
1138. _____ form is used for imposition of Minor Penalty.
A. SF-5 B. SF-4 C SF-1 D. SF-11
1139. Compulsory Retirement/Removal/ Dismissal is a -----under D&A Rules, 1968.
A. Penalty B. Not a penalty C. Major penalty D. Minor penalty
1140. _____ form is used for imposition of Major Penalty.
A. SF-5 B. SF-4 C SF-1 D. SF-2
1141. Major Penalty shall not be imposed on Railway Servant without conducting _____
A. Meeting B. Inquiry. C.Election D. Selection.
1142. Rule No. 9 of The Railway servants (Discipline& Appeal) Rules deals with Procedure for imposing _____ penalty.
A. Major B. Minor C. Suspension D. Revoke of Suspension.
1143. _____ form is used for nomination of Inquiry Officer.
A. SF-5 B. SF-7 C SF-1 D. SF-2
1144. _____ form is used to appoint a Presenting Officer.
A. SF-8 B. SF-4 C SF-1 D. SF-2
1145. _____ equal to leave on half salary, will be drawn in case the employee is under suspension.
A. Dearness Allowance B. Subsistence Allowance C Suspension Allowance
1146. As per rule 17 of DAR rules No appeal lies against any order of an _____ nature or of the nature of step in aid of the final disposal of a disciplinary proceedings.
A. Minor Penalty B. Major Penalty C. Interlocutory D. None

1147. The appeal against an order of the Disciplinary Authority can be preferred by the Appellant in his _____.
A. Own name. B. Disciplinary Authority. C. Appellate Authority D. GM
1148. The appeal shall be preferred to any higher authority other than the _____.
A. Disciplinary Authority. B. DRM C. Appellate Authority D. GM
1149. Rule 25 of the RS(D&A) Rules deal with _____.
A. Review. B. Appeal C. Revision. D. Witness
1150. Rule 25.A of the RS(D&A) Rules deal with _____.
A. Review. B. Appeal C. Explanation. D. Witness
1151. An authority not lower than _____ shall impose the penalties of Dismissal/Removal/Compulsory retirement.
A. Disciplinary Authority. B. GM C. Appellant Authority
D. Appointing Authority
1152. The disciplinary proceedings should be _____ on the death of the charged employee.
A. Closed immediately B. Continued C. Temporarily closed D. None
1153. What is the time limit for submission of written statement of defence by the delinquent Railway Servant?
A. 6 B. 7 C. 5 D. 10
1154. If the charge is unauthorized absence, _____ can be one of the witnesses.
A. Attendance Register B. Medical Certificate C. Co- employee. D. None
1155. Appeal shall be entertained unless preferred within _____ days.
A. 100 B. 10 C. 30 D. 45
1156. Dispute between workmen and workmen which is connected with the employment or non-employment is called _____.
A. Industrial Dispute B. Personal Dispute C. Trade Union dispute D. All
1157. Labour Courts are established under the _____.
A. ID Act, 1947 B. PD Act C. Trade Union Act, 1926 D. All
1158. As per ID Act 1947, "_____" means the termination by the employer of the service of a workman for any reason whatsoever, otherwise than as a punishment inflicted by way of disciplinary action.
A. Retrenchment B. closure C. layoff D. lock out

1159. Which among the following is/are true regarding Industrial Disputes? [Sec 2(k)] An "Industrial dispute" means any dispute or difference.
- 1) Between employers and workmen
 - 2) Between employers and employers
 - 3) Between workmen and workmen
- A. 1, 2 B. 1, 2 & 3 C. 2, 3 D. none
1160. In the case of any industrial establishment in which 100 or more workmen are employed on any day in the preceding 12 months, the appropriate Government, may by general or special order require the employer to constitute a _____.
- A. Works Committee B. Labour court C. Tribunal D. Arbitrators
1161. As per ID Act, no person employed in a public utility service shall go on strike, in breach of contract without giving to the employer notice of strike, within before striking or within----- of giving such notice.
- A. 6 weeks/ 14 Days B. 5 weeks/ 12 Day C. 8 weeks/ 10 days D. 3 weeks/ 3days
1162. As per the Payment of Wages Act, 1936 no wage-period shall exceed -----days
- A. 15 B. 20 C. 25 D. 30 days
1163. Staff Benefit Fund (SBF) works for the benefit of ----- Railway Employees.
- A. Gazetted. B. Non Gazetted C. Trade unions D. All the above
1164. Permanent Negotiating Machinery functions in _____ tier system in Indian Railways.
- A. Three B. Four C. Five D. Six
1165. _____ number of meetings held at Divisional PNM level with periodicity of 2 months.
- A. Three B. Four C. Five D. Six
1166. _____ number of meetings held at Zonal PNM level with periodicity of 3 months
- A. Three B. Four C. Five D. Six
1167. _____ number of meetings two with each Federations will be held at Board PNM level per year.
- A. Three B. Four C. Five D. Six
1168. Issues not settled in Railway Board PNM shall be referred to _____
- A. Adhoc Tribunal B. Labour Court C. High Court D. Parliament
1169. JCM Refers to -----
- A. Joint Consultative Machinery
 - B. Joint Common Machinery
 - C. Joint Collective Machinery.
 - D. Joint Constructive Machinery.
1170. In Railways, JCM function in ----- levels.
- A. 2 B. 3 C. 4 D. 7

1171. In N-JCM _____ will act as Chairman
A. Speaker of Lok Sabha B. Cabinet Secretary C. PMO D. Governor
1172. Chairman of D-JCM is _____
A. Member Staff B. CRB C. Member Traffic D. Member Infrastructure
1173. Participation in illegal strike amounts to _____
A. Dies-non B. LWP C. LHAP D. Break in service
1174. PREM refers to _____
A. Participation of Railway Employees in Management
B. Participation of Railway Employees in Manufacturing
C. Participation of Railway Employees in Maintenance
D. Participation of Railway Employees in Modernization
1175. PREM functions in _____ levels.
A. 3 B. 4 C. 6 D. 8
1176. PREM meetings at Railway Board level is chaired by _____
A. CRB B. Member Staff C. Member Rolling Stock D. Member Traction.
1177. Workman Compensation Act re-named as _____
A. Employee Compensation Act B. Employer Compensation Act
C. Employment Compensation Act D. none
1178. EC Act provide _____ for injury/Death by accident on duty
A. Treatment B. Compensation C. Conviction D. none
1179. As per EC Act there are _____ & _____ types of disablements
A. Small/Big B. Partial/Total C. Simple/Major D. none
1180. Employer is not liable for compensation if injury is due to _____
A. Influence of drinks/drugs B. Willful disobedience of rules
C. Willful removal of safety gadgets D. all the above
1181. The compensation amount shall be deposited with _____
A. Bank B. Employees account C. Labour Commissioner D. none
1182. Exgratium lumpsum compensation is paid to the families of railway employees _
A. who die in harness in performance of bonafide official duties
B. who die in harness in performance of non-official duties
C. who die in service
D. none

1183. Exgratia Lumpsum amount paid for death occurring due to accident in course of performance of duties is _____
 A. 25 lakhs B. 30 lakhs C. 20 lakhs D. 35 lakhs
1184. Pension is paid to _____ Railway Servants on retirement from service
 A. pre 1-1-2004 appointed employees B. post 1-1-2004 employees
 C. appointed on or after 1-1-2004 D. none
1185. Pension is subject to _____
 A. Future good conduct B. Future bad conduct C. both A&B D. none.
1186. Superannuation Pension is paid who retires with minimum _____ qualifying service
 A. 10 B. 20 C. 30 D. 32
1187. Amount of Pension shall not be paid less than _____ of last month's pay at the time of Retirement with effect from 1-1-2006
 A. 20% B. 30% C. 40% D. 50%
1188. _____ days of both LAP & LHAP are entitled for encashment of leave at the time of Retirement
 A. 50 B. 300 C. 250 D. 125
1189. Maximum amount of gratuity shall not be more than _____
 A. 20 lakhs B. 30 lakhs C. 40 lakhs D. 60 lakhs
1190. Compassionate allowance shall be sanctioned to _____ by competent authority
 A. Railway Servant who is removed/dismissed
 B. Railway servant on voluntary retirement
 C. Superannuation D. None
1191. Minimum pension as per 7th PC is _____
 A. 7000 B. 4500 C. 9000 D. 3500
1192. Deposit linked Insurance Scheme is linked with ----- and paid to his _____ subject to maximum of 60,000
 A. Balance of PF of deceased Employee / family \
 B. service of deceased Employee / family
 C. nil balance of PF of deceased Employee / family
 D. none
1193. The maximum amount of Pension that can be commuted is _____.
 A. 30% of pension B. 40% of pension C. 20% of pension D. 50% of pension
1194. The family pension shall not be less than _____% of the minimum of the scale held by the employee at the time of retirement/death.
 A. 50% B. 30% C. 35% D. 60%

1195. The enhanced family pension shall not be less than _____% of the minimum of the Scale held by the employee at the time of retirement/death.
A. 50% B. 30% C. 35% D. 60%
1196. Pensioner would be entitled restore his commuted pension after expiry of ____ years
A. 20 B. 12 C. 15 D. 16
1197. PRCP are admissible to Railway Servant retired after putting in __ years of service.
A. 20 B. 12 C. 15 D. 16
1198. Railway Servant with minimum of ----of qualifying service are entitled for Voluntary Retirement, by giving three months advance notice.
A. 30 years B. 10 years C. 33 years D. 20 years
1199. _____ amount of Fixed Medical Allowance is paid to the opted pensioner/ Family Pensioner per month w.e.f. 01.07.2017
A. Rs.1000 B. Rs.3000. C. Rs.2500 D. Nil
1200. Gratuity is paid @ $\frac{1}{4}$ months pay per each completed half year of the service subject to a maximum of ----- months' pay or Rs.20 lacs, whichever is less
A. 15 times B. 12 times C. 20 times D. 16 $\frac{1}{2}$ times.
1201. Period of Retention of Railway Quarters on account of missing of Railway Servant is upto _____ Months.
A. 24 B. 36 C. 12 D. None.
1202. The rate of contribution to join RELHS for Level 7 to Level 11 employees as per the 7th Pay Commission shall be last month's basic pay drawn or _____ amount whichever is lower.
A. Rs.78, 000 B. Rs.30, 000. C. Rs.1, 20,000 D. 54,000

b) Official Language (Rajbhasha)

(Question Bank on Official Language Policy of the union for Departmental Examination)

1203. What is the official language of the India?
a) Telugu b) Hindi c) Marathi d) Hindi in Devnagari Script
1204. In which article of the constitution of India Hindi has been declared as Official Language?
a) Article 120 b) Article 210 c) Article 343 d) 3Article 351
1205. As per the provisions of the Constitution of India Official Language Hindi shall be written in which script?

- a) Brahmi Script b) Sanskrit Script c) Roman Script d) Devnagari Script
- 1206 . Which forms of the numerals should be used in official purposes of the Union of India?
 a) International form of Indian Numerals b) Devnagari numerals
 c) Roman numerals d) None of the above
- 1207 . Hindi Day is celebrated in India on every year.
 a) 10th January b) 26th January c) 15th August d) 14th September
- 1208 . Why Hindi Day is celebrated in India on 14th September?
 a) Constituent Assembly of India had adopted Hindi as Official Language of India on that day.
 b) Ministry of Home Affairs, Department of Official Language had ordered to do so.
 c) Railway Board had ordered to do so d) None of the above
1209. In which article of the Constitution of India envisages setting up of Official Language Commissions?
 a) Article 343 b) Article 344 c) Article 345 d) Article 346
- 1210 . Which article of the Constitution of India empowers the Indian states to choose their own Official Language?
 a) Article 343 b) Article 351 c) Article 210 d) Article 345
1211. If a state does not choose Official Language for itself from the languages spoken in the state what language will be its Official Language?
 a) All the languages spoken in the state b) Hindi Language
 c) English Language d) None of the above
1212. The authoritative texts of all Bills to be introduced or amendments thereto to be moved in either House of Parliament or in the House or either House of the Legislature of a State shall be in which language?
 a) In Hindi b) In English
 c) In any of the Languages mentioned in 8th Schedule of the Constitution of India
 d) None of the above
1213. As per the prevailing provisions of the Constitution of India all proceedings in the Supreme Court and in every High Court shall be in..... language.
 a) In Hindi b) In English
 c) In any of the Languages mentioned in 8th Schedule of the Constitution of India
 d) None of the above
1214. In which article of the constitution of India the duty to promote the spread of the Hindi language assigned to the Union of India?
 a) Article 120 b) Article 210 c) Article 343 d) Article 351

1215. Which of the following languages not included in the VIII Schedule of the Constitution of India?

- a) Chhattisgarhi b) Maithili c) Dogri d) Bodo

1216. As per the provisions of the Constitution of India vocabulary should be drawn primarily from which language wherever necessary or desirable for enrichment of Hindi Language to serve as medium of expression for all the elements of the composite culture of India?

- a) English Language b) Hindustani Language c) Lingua Franca d) Sanskrit Language

1217. In which article of the Constitution of India the provision contains that if a Member of Parliament does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?

- a) Article 120 b) Article 210 c) Article 343 d) Article 351

1218. In which article of the Constitution of India the provision regarding the language to be used in parliament has been contained.

- a) Article 120 b) Article 210 c) Article 343 d) Article 351

1219. In which article of the Constitution of India the provision regarding the language to be used in state legislatures has been contained.

- a) Article 120 b) Article 210 c) Article 343 d) Article 351

1220. In which article of the Constitution of India a provision contains that if a Member does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?

- a) Article 120 b) Article 210 c) Article 343 d) Article 351

1221. In clause-3 of which article of the Constitution of India empowers the parliament to make rule regarding continuation of the use of English language even after the expire of 15 years of the commencement of the constitution.

- a) Article 343 b) Article 344 c) Article 348 d) Article 351

1222. In which article of the Constitution of India a provision to constitute Official Language Commission at the expiration of five years from the commencement of the Constitution and thereafter at the expiration of ten years from such commencement has been envisaged.

- a) Article 120 b) Article 210 c) Article 344 d) Article 348

1223. The 1st Official Language Commission has been constituted on 7th June 1955 as per the provisions of the Constitution of India. Who was the Chairman of this commission?

- a) K. M. Munshi b) Gopal Swami Ayengar c) B. G. Kher d) Govind Vallabh Pant
1224. Who was the Chairman of the 2nd Official Language Commission?
a) Lal Bahadur Shastri b) Guljarilal Nanda c) Smt. Indira Gandhi d) None of the above
1225. What is the Official Language of Union of India
a) Hindi in Devnagari Script b) Hindi c) Sanskrit d) None of these
]
1226. On which date part XVII of the Constitution was passed in Parliament
a) 12.09.1949 b) 14.09.1949 c) 15.09.1949 d) 21.09.1949
]
1227. When was official language act 1963 passed
a) 10.05.1963 b) 10.05.1964 c) 10.05.1965 d) 10.05.1966
1228. When was official language Act 1963 amended
a) 1963 b) 1965 c) 1967 d) 1969
1229. Union of India is classified into ----- Regions under Official Language Rules
a) A & B Regions b) C & D Regions c) A, B & C Regions d) None of these
1230. When is "Hindi Day" celebrated every year
a) November 14 b) September 14 c) November 21 d) September 21
1231. According to official language rules, under which region Andaman and Nicobar islands come?
a) Region 'A' b) Region 'B' c) Region 'C' d) None of these
1232. According to official language rules, which is the only Union territory classified under region 'B'
a) Union territory of Chandigarh b) Union territory of Daman & Diu
c) Pondichery d) None of these
1233. What is the official language of Arunachal Pradesh
a) Mizo b) English c) Hindi d) None of these
1234. What is the act passed to give legal form to the assurances given to Non-Hindi speaking people?
a) Official Language Act (amended)-1967 b) Official Language Act (amended)-1969
c) Official Language Act (amended)-1965 d) None of these
1235. From when did the section 3(3) of official languages act take effect?
a) 26.01.1961 b) 26.01.1963 c) 26.01.1965 d) 26.01.1967
1236. In which part of the constitution are the articles 343-351 that give information about Official Language available?
a) Part XV b) Part XVI c) Part XVII d) Part XVIII

1237. Maximum how many Artists can participate in Hindi drama competitions?
 a) Maximum 10 artists b) Maximum 15 artists c) Maximum 18 artists
 d) Maximum 21 artists
- 1238 .How many inspections in a month are mandatory for RajbhashaAdhikari of railways
 a) One inspection per month b) Two inspections per month
 c) Three inspections per month d) Four inspection per month
1239. At present how many languages are enlisted in the Eighth schedule of the constitution
 a)20 b)21 c)22 d)23
- 1240 . In which article is the provision regarding OL policy available in part V of the constitution
 a) Article 120 b) Article 343 c) Article 344 d) None of these
- 1241 . Name the article in which the provision of the Eighth schedule of the Constitution is available
 a) Article 120 b) Article 343 c) Article 344 d) Article 344 (1) & 351
1242. When was the Official Language Rules passed?
 a)1974 b)1975 c)1976 d) None of these
1243. How many articles are there in part XVII of the Constitution?
 a) 7 b) 8 c) 9 d) 10
1244. In compliance of article 344 when was the official language commission formed in the year?
 a) 1955 b) 1956 c) 1957 d) 1958
1245. Who was the first chairman of the Official Language Commission?
 a) B.G.Kher b) G.B.Pant c) Lal Bahadur Shastri d) None of these
1246. Who was the first chairman of the committee which was formed on the recommendation of the official language commission
 a) B.G.Kher b) G.B.Pant c) Lal Bahadur Shastri d) None of these
1247. As per the constitution, who is translating the statutory Rules, Regulations and Orders?
 a) Law ministry b) Home ministry c) HRD ministry d) None of these
1248. Which Official Language Rule of 1976, mentions about the working knowledge of the Officer/ Employee?
 a) Rule-8 b) Rule-9 c) Rule-10 d) None of these
1249. Which article comes under part VI?
 a) Article 120 b) Article 343 c) Article 344 d) Article 210

1250. Who chaired the first railway Hindi Salahkar Samiti constituted in 1973?
a) Sri Lalit Narayan Mishra b) Sri B.G. Kher c) Sri G.B. Pant d) Sri Lal Bahadur Shastri
1251. Who was the chairman of the parliamentary committee on official language constituted in the year 1976?
a) OM Mehta b) Sri B.G. Kher c) Sri G.B. Pant d) Sri Lal Bahadur Shastri
1252. In which year the post of Hindi Asst. was created in General Branch of Railway Board in compliance of president's order 1952?
a) 1952 b) 1953 c) 1954 d) 1955
1253. In which year the Hindi translation of Railway Budget was prepared and who was the Railway Minister
a) 1956- Lal Bahadur Shastri b) 1956- G.B. Pant
c) 1957- B.G. Kher d) 1957- L.M. Gupta
1254. In which year Hindi (Parliament) section was established in Railway Board
a) 1956 b) 1958 c) 1960 d) None of these
1255. The state of Jarkhand comes under which Region?
a) Region 'A' b) Region 'B' c) Region 'C' d) None of these
1256. The state of Jarkhand comes under which Region?
a) Region 'A' b) Region 'B' c) Region 'C' d) None of these
1257. Which sub-committee of the parliamentary committee on official language inspects Railway Ministry
a) First sub-committee b) Second sub-committee
c) Third sub-committee d) Fourth sub-committee
1258. What is the scheme implemented by Railway Board for doing work in Hindi
a) Rajbhasha individual cash award scheme b) Rajbhasha group cash award scheme
c) Rajbhasha Samman award scheme d) None of these
1259. What is the expansion for OLIC used by department of official language?
a) Official Language Implementation committee
b) Oriental Language Implementation committee
c) Other Languages Improvement committee
d) None of these
1260. How many Hindi courses are prescribed for central government employees?
a) One b) Two c) Three d) Four
1261. Which is the elementary Hindi course prescribed for central government employees?
a) Praveen b) Pragya c) Parangat d) Prabodh

1262. Who is the chairman of central Hindi Committee?
 a) Prime Minister b) Home Minister c) President of India d) Vice President
1263. Which committee reviews the progress made in the propagation of Hindi in particular ministry/ department?
 a) Hindi Salahkar Samiti b) Parliamentary Committee
 c) Official Language Committee d) None of these
1264. When was the present parliamentary committee on official language constituted?
 a) September 1975 b) January 1975 c) September 1976 d) January 1976
1265. How many members are there in the committee of parliamentary on official Language?
 a) 21 b) 25 c) 27 d) 30
 [Answer: d]
1266. How many Lok Sabha members will be there in the committee of parliamentary on official language?
 a) 21 b) 25 c) 27 d) 20
1267. At present, how many sub-committees are there in the parliamentary committee on official language
 a) 2 sub-committees b) 3 sub-committees c) 4 sub-committees d) 5 sub-committees
1268. What is the main duty of the committee of parliament on official language?
 a) To review the progressive use of Hindi
 b) To review the expenditure incurred for implementation of Hindi
 c) To review the regions based on use of Hindi
 d) None of these
1269. Who is the Chairman of the Town Official Language Implementation Committee constituted in major cities?
 a) Senior most central government officer of the city
 b) Senior most state government officer of the city
 c) Senior most railway officer of the city
 d) None of these
1270. What is the periodicity of the meetings of Official Language Implementation Committee?
 a) once in 3 months b) once in 6 months c) once in 9 months d) once in 12 months
1271. What is the periodicity meeting of Town Officials Language Implementation Committee?
 a) once in 3 months b) once in 6 months c) once in 9 months d) once in 12 months

1272. Who prepares the annual programme on Official Language?
a) Ministry of Home Affairs b) Ministry of LAW
c) Ministry of HRD d) None of these
1273. What are the Hindi courses prescribed for central government employees?
a) Prabodh & Praveen b) Praveen & Pragya
c) Praveen, Pragya & Parangat d) Prabodh, Praveen, Pragya and Parangat
1274. Which is the final Hindi course prescribed for Clerical Cadre Employees Of Central Government?
a) Praveen b) Pragya c) Parangat d) Prabodh
1275. What are the training facilities available to a central government employee to get trained in the Hindi Courses?
a) Regular b) Intensive c) Correspondence and Private d) All of these
1276. How many times the regular Hindi exams are conducted in a year?
a) One Time b) Two Times c) Three Times d) Four Times
1277. In which months regular Hindi examinations are conducted
a) April and October b) May and November c) June and December d) None of these
1278. Who are eligible to be trained in the Hindi Courses?
a) All the central government employees
b) All the central government employees in class III
c) All the central government employees in class III and above officials
d) None of these
1279. Name the newly introduced course in Hindi by Hindi teaching scheme?
a) Praveen b) Pragya c) Parangat d) Prabodh
1280. Which course a category 'C' employee required to be trained
a) Praveen b) Pragya c) Parangat d) Prabodh
1281. From which course a category 'D' employee required to be trained
a) Praveen b) Pragya c) Parangat d) Prabodh
1282. In which order name, designation and sign boards are to be exhibited?
a) 1. Regional Language 2. Hindi and 3. English
b) 1. Hindi 2. English and 3. Regional Language
c) 1. English 2. Hindi and 3. Regional Language
d) None of these
1283. In which order the forms used by public are to be prepared
a) 1. Regional Language 2. Hindi and 3. English

- b) 1. Hindi 2. English and 3. Regional Language
 c) 1. English 2. Hindi and 3. Regional Language
 d) None of these
1284. In which order rubber stamps are to be prepared
 a) Hindi- English bi-lingual form-one line Hindi and one line English
 b) English- Hindi bi-lingual form-one line English and one line Hindi
 c) both a and b d) None of these
1285. What is the foreign language included in the Eighth schedule
 a) English b) Bhutanese c) Nepali d) Russian
1286. Who is the chairman of the Divisional Official Language Implementation Committee?
 a) Sr.DPO b) ADRM c) DRM d) Senior RajbhashaAdhikari
1287. ----- ministry/ office is conducting the exams under Hindi Teaching Scheme for the central government employees
 a)Law ministry b) Home ministry c) HRD ministry d) None of these
 [
1288. In which order are the station announcements made?
 a) Tri lingual (Hindi, Regional and English)
 b) Tri lingual (English ,Regional and Hindi)
 c) Tri lingual (Regional, Hindi and English)
 d) None of these
1289. In which proportion the roof board has to be displayed
 a) In equal proportion- Tri lingual
 b) In equal proportion- bi lingual
 c) 1:2:3 proportion- Tri lingual
 d) None of these
1290. How the panel board of a train has to be displayed
 a) Tri lingual (Hindi, Regional and English)
 b) Tri lingual (English ,Regional and Hindi)
 c) Tri lingual (Regional, Hindi and English)
 d) None of these

ANSWERS

1	a	46	d	91	d	136	c	181	a	226	b	271	a	316	d	361	b	406	a
2	c	47	b	92	b	137	b	182	c	227	b	272	c	317	d	362	c	407	a
3	a	48	a	93	a	138	a	183	a	228	c	273	c	318	b	363	a	408	c
4	b	49	b	94	b	139	a	184	d	229	c	274	a	319	c	364	c	409	d
5	c	50	b	95	a	140	d	185	a	230	a	275	d	320	b	365	b	410	c
6	d	51	d	96	a	141	c	186	b	231	c	276	b	321	a	366	a	411	d
7	d	52	b	97	c	142	b	187	b	232	a	277	d	322	d	367	c	412	d
8	c	53	b	98	c	143	b	188	c	233	b	278	c	323	d	368	a	413	a
9	b	54	c	99	c	144	d	189	b	234	b	279	d	324	b	369	c	414	c
10	a	55	a	100	b	145	b	190	a	235	c	280	c	325	d	370	b	415	c
11	d	56	d	101	c	146	c	191	c	236	a	281	a	326	a	371	b	416	c
12	c	57	c	102	a	147	a	192	a	237	b	282	c	327	a	372	c	417	c
13	c	58	c	103	a	148	a	193	c	238	d	283	c	328	d	373	c	418	c
14	b	59	a	104	d	149	a	194	b	239	c	284	c	329	a	374	a	419	d
15	c	60	c	105	a	150	b	195	b	240	a	285	b	330	c	375	b	420	d
16	b	61	b	106	d	151	a	196	c	241	d	286	b	331	d	376	c	421	c
17	a	62	c	107	a	152	d	197	b	242	b	287	c	332	c	377	a	422	c
18	a	63	c	108	b	153	b	198	c	243	c	288	b	333	b	378	b	423	c
19	c	64	c	109	c	154	a	199	b	244	b	289	a	334	d	379	c	424	c
20	a	65	d	110	a	155	c	200	b	245	c	290	b	335	a	380	b	425	c
21	c	66	b	111	c	156	b	201	c	246	a	291	a	336	c	381	b	426	d
22	a	67	b	112	d	157	c	202	c	247	b	292	b	337	b	382	b	427	c
23	c	68	c	113	d	158	c	203	b	248	a	293	b	338	a	383	a	428	b
24	b	69	d	114	a	159	c	204	b	249	b	294	b	339	a	384	c	429	d
25	b	70	a	115	a	160	c	205	c	250	b	295	b	340	b	385	b	430	c
26	c	71	d	116	a	161	b	206	c	251	c	296	b	341	b	386	c	431	c
27	c	72	d	117	b	162	d	207	c	252	b	297	b	342	c	387	b	432	d
28	b	73	d	118	b	163	b	208	c	253	b	298	b	343	d	388	a	433	c
29	c	74	d	119	b	164	c	209	b	254	a	299	a	344	a	389	b	434	b
30	d	75	a	120	b	165	a	210	c	255	b	300	b	345	d	390	d	435	c
31	b	76	a	121	a	166	b	211	c	256	a	301	b	346	d	391	b	436	d
32	d	77	c	122	c	167	b	212	a	257	b	302	b	347	c	392	a	437	b
33	b	78	d	123	b	168	b	213	c	258	c	303	a	348	a	393	b	438	c
34	c	79	a	124	b	169	b	214	c	259	c	304	b	349	b	394	c	439	a
35	a	80	c	125	d	170	a	215	c	260	b	305	a	350	a	395	c	440	b
36	c	81	d	126	a	171	d	216	b	261	b	306	b	351	a	396	c	441	c
37	c	82	b	127	b	172	a	217	c	262	a	307	d	352	b	397	c	442	d
38	a	83	c	128	c	173	a	218	c	263	c	308	b	353	d	398	c	443	c
39	a	84	c	129	c	174	d	219	d	264	c	309	d	354	a	399	a	444	c
40	c	85	b	130	c	175	a	220	b	265	b	310	b	355	c	400	c	445	b
41	c	86	a	131	b	176	b	221	c	266	d	311	b	356	c	401	c	446	a
42	d	87	a	132	c	177	a	222	d	267	a	312	b	357	d	402	a	447	b
43	c	88	b	133	c	178	b	223	a	268	c	313	c	358	d	403	c	448	d
44	d	89	a	134	a	179	a	224	c	269	a	314	a	359	c	404	c	449	c
45	c	90	a	135	a	180	b	225	a	270	c	315	c	360	b	405	c	450	c

451	b	496	c	541	b	586	c	631	d	676	a	721	a	766	b	811	b	856	b
452	b	497	d	542	a	587	b	632	a	677	d	722	b	767	b	812	a	857	d
453	d	498	b	543	a	588	b	633	c	678	b	723	d	768	c	813	d	858	a
454	c	499	b	544	b	589	a	634	b	679	d	724	b	769	a	814	a	859	d
455	b	500	b	545	b	590	c	635	b	680	b	725	c	770	b	815	d	860	b
456	b	501	c	546	b	591	c	636	d	681	c	726	b	771	c	816	b	861	a
457	d	502	b	547	b	592	a	637	b	682	b	727	a	772	b	817	a	862	a
458	d	503	a	548	a	593	c	638	c	683	c	728	c	773	c	818	d	863	b
459	d	504	c	549	c	594	b	639	a	684	d	729	b	774	b	819	a	864	b
460	c	505	c	550	c	595	c	640	b	685	a	730	b	775	b	820	b	865	a
461	a	506	a	551	c	596	c	641	a	686	b	731	b	776	a	821	a	866	b
462	d	507	b	552	b	597	b	642	b	687	c	732	a	777	a	822	b	867	a
463	b	508	b	553	a	598	c	643	c	688	a	733	a	778	b	823	a	868	b
464	c	509	a	554	b	599	a	644	b	689	a	734	b	779	b	824	b	869	c
465	b	510	b	555	b	600	c	645	b	690	c	735	b	780	b	825	a	870	d
466	a	511	b	556	a	601	a	646	a	691	b	736	c	781	c	826	c	871	b
467	c	512	d	557	b	602	b	647	b	692	d	737	c	782	a	827	d	872	c
468	a	513	b	558	a	603	b	648	b	693	b	738	b	783	c	828	a	873	c
469	d	514	c	559	c	604	d	649	c	694	a	739	c	784	a	829	b	874	d
470	c	515	b	560	b	605	d	650	d	695	a	740	d	785	d	830	b	875	d
471	c	516	d	561	c	606	c	651	a	696	c	741	b	786	c	831	b	876	b
472	c	517	c	562	b	607	b	652	b	697	b	742	a	787	b	832	b	877	b
473	a	518	c	563	b	608	a	653	a	698	b	743	c	788	b	833	a	878	c
474	b	519	c	564	c	609	d	654	c	699	a	744	a	789	b	834	c	879	b
475	b	520	c	565	b	610	a	655	a	700	a	745	d	790	c	835	d	880	a
476	d	521	b	566	a	611	b	656	c	701	b	746	c	791	a	836	d	881	b
477	d	522	b	567	c	612	c	657	a	702	c	747	a	792	b	837	d	882	b
478	a	523	b	568	b	613	a	658	a	703	b	748	d	793	b	838	d	883	d
479	d	524	c	569	d	614	b	659	a	704	a	749	c	794	b	839	b	884	d
480	c	525	b	570	b	615	b	660	a	705	b	750	b	795	b	840	b	885	a
481	a	526	b	571	d	616	c	661	b	706	a	751	d	796	b	841	a	886	c
482	c	527	c	572	c	617	a	662	a	707	b	752	a	797	a	842	c	887	b
483	c	528	b	573	a	618	b	663	a	708	a	753	d	798	a	843	b	888	a
484	d	529	a	574	a	619	c	664	a	709	a	754	c	799	c	844	c	889	c
485	c	530	a	575	b	620	c	665	a	710	b	755	d	800	b	845	a	890	d
486	b	531	a	576	b	621	d	666	b	711	b	756	d	801	a	846	a	891	c
487	b	532	a	577	d	622	d	667	c	712	c	757	d	802	b	847	c	892	d
488	b	533	c	578	b	623	b	668	b	713	d	758	c	803	b	848	b	893	b
489	b	534	b	579	a	624	d	669	a	714	c	759	c	804	c	849	c	894	c
490	d	535	c	580	d	625	c	670	b	715	c	760	c	805	c	850	b	895	d
491	d	536	b	581	b	626	c	671	b	716	c	761	c	806	b	851	b	896	a
492	d	537	b	582	b	627	b	672	b	717	c	762	c	807	c	852	a	897	a
493	d	538	c	583	d	628	c	673	c	718	b	763	d	808	a	853	b	898	b
494	d	539	b	584	a	629	c	674	a	719	b	764	b	809	a	854	c	899	c
495	c	540	a	585	b	630	c	675	a	720	b	765	d	810	b	855	a	900	a

901	d	946	a	991	d	1036	c	1081	b	1126	c	1171	b	1216	d	1261	d
902	a	947	a	992	b	1037	c	1082	a	1127	a	1172	a	1217	a	1262	a
903	b	948	a	993	d	1038	c	1083	d	1128	a	1173	d	1218	a	1263	a
904	a	949	a	994	a	1039	a	1084	c	1129	a	1174	a	1219	b	1264	d
905	d	950	c	995	d	1040	c	1085	a	1130	a	1175	a	1220	b	1265	d
906	c	951	b	996	d	1041	d	1086	b	1131	b	1176	a	1221	a	1266	d
907	a	952	d	997	d	1042	c	1087	c	1132	a	1177	a	1222	c	1267	b
908	b	953	d	998	c	1043	a	1088	c	1133	c	1178	b	1223	c	1268	a
909	a	954	a	999	b	1044	b	1089	b	1134	b	1179	b	1224	d	1269	a
910	b	955	c	1000	d	1045	c	1090	b	1135	c	1180	d	1225	a	1270	a
911	a	956	a	1001	d	1046	c	1091	c	1136	d	1181	c	1226	b	1271	b
912	a	957	c	1002	c	1047	d	1092	a	1137	a	1182	a	1227	a	1272	a
913	a	958	a	1003	d	1048	c	1093	a	1138	d	1183	a	1228	c	1273	d
914	c	959	a	1004	b	1049	d	1094	c	1139	c	1184	a	1229	c	1274	c
915	a	960	b	1005	c	1050	d	1095	a	1140	a	1185	a	1230	b	1275	d
916	a	961	c	1006	d	1051	c	1096	b	1141	b	1186	a	1231	a	1276	b
917	b	962	d	1007	d	1052	c	1097	b	1142	a	1187	d	1232	a	1277	b
918	a	963	a	1008	d	1053	a	1098	a	1143	b	1188	b	1233	b	1278	c
919	c	964	b	1009	c	1054	d	1099	c	1144	a	1189	a	1234	a	1279	c
920	a	965	d	1010	d	1055	c	1100	a	1145	b	1190	a	1235	c	1280	b
921	a	966	b	1011	d	1056	a	1101	a	1146	c	1191	c	1236	c	1281	d
922	d	967	a	1012	d	1057	d	1102	b	1147	a	1192	a	1237	b	1282	a
923	b	968	a	1013	d	1058	a	1103	d	1148	a	1193	b	1238	a	1283	a
924	d	969	c	1014	b	1059	a	1104	c	1149	c	1194	b	1239	c	1284	a
925	b	970	a	1015	b	1060	b	1105	a	1150	a	1195	a	1240	a	1285	c
926	d	971	a	1016	c	1061	a	1106	b	1151	d	1196	c	1241	d	1286	c
927	b	972	a	1017	c	1062	b	1107	d	1152	a	1197	a	1242	c	1287	b
928	b	973	a	1018	c	1063	c	1108	c	1153	d	1198	d	1243	c	1288	c
929	a	974	a	1019	a	1064	d	1109	b	1154	a	1199	a	1244	a	1289	a
930	b	975	c	1020	c	1065	a	1110	c	1155	d	1200	d	1245	a	1290	c
931	a	976	a	1021	a	1066	b	1111	b	1156	a	1201	b	1246	b		
932	b	977	c	1022	d	1067	c	1112	d	1157	a	1202	a	1247	a		
933	a	978	a	1023	c	1068	d	1113	a	1158	a	1203	d	1248	c		
934	b	979	a	1024	b	1069	a	1114	d	1159	b	1204	c	1249	d		
935	a	980	b	1025	b	1070	b	1115	b	1160	a	1205	d	1250	a		
936	d	981	a	1026	a	1071	c	1116	a	1161	a	1206	a	1251	a		
937	a	982	d	1027	b	1072	d	1117	b	1162	d	1207	d	1252	a		
938	a	983	d	1028	c	1073	a	1118	a	1163	b	1208	a	1253	a		
939	c	984	d	1029	c	1074	b	1119	c	1164	a	1209	b	1254	c		
940	a	985	c	1030	b	1075	c	1120	b	1165	d	1210	d	1255	a		
941	a	986	d	1031	b	1076	d	1121	c	1166	b	1211	c	1256	c		
942	c	987	d	1032	b	1077	c	1122	a	1167	b	1212	b	1257	d		
943	a	988	d	1033	c	1078	a	1123	c	1168	a	1213	b	1258	a		
944	a	989	d	1034	a	1079	a	1124	d	1169	a	1214	d	1259	a		
945	a	990	c	1035	b	1080	a	1125	c	1170	a	1215	a	1260	d		