



दक्षिणमध्यरेलवे South Central Railway
Office of the Sr.DME/Co-ordination/SC
3रीमंजिल ,संचालनभवन 3rd floor, Sanchalan Bhavan,
सिकंदराबाद- 71 Secunderabad-71. Ph: 040.27825302, 27786662

No.CM.226.C&W.Vacancies

दिनांक/Date:09-07-2024.

Sr.DPO/SC

विषय/Sub:Filling up of vacancies of JE against ~~LDCE~~ Supply of Revised Syllabus & Question bank.

सन्दर्भ/ Ref: Sr.DPO/SC's Lr.No.SCR/P-SC/210(a)/JE/PRQ/355933 dt.21-06-2024.

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Reference to the above subject, revised syllabus (1 page) & objective type question bank (256 pages) for selection to the post of JE against LDCE quota comprising 257 pages are enclosed herewith and it is advised to arrange to supply the syllabus to the legible candidates and to make the same available on website by uploading in the web portal.

DA: As above



(के.श्रीनिवास/K.SRINIVAS)
व.मं.यां.इंजी./समन्वय/ सिकं /Sr.DME/Co-ord/SC

Syllabus for selection to the post of JE C&W in Level-6 of 7th PC against LDCE quota 2024-25

I. Coach maintenance activities

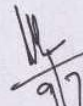
1. Various types of coaching stock in Indian Railways.
2. Salient features of ICF bogie, LHB bogie & Vande Bharat (Train-18).
3. Various maintenance schedules of ICF, LHB & Vande Bharat coaching stock.
4. IRCA Part IV – Coach maintenance
5. Knowledge on Passenger amenity items, refurbishing items and safety items in coaching stock.
6. Air brake system of ICF, LHB & Vande Bharat coaching stock.
7. Air brake testing of coaching stock.
8. Knowledge on primary suspension and secondary suspension in ICF, LHB & Vande Bharat coaching stock.
9. Details of items attended in PM, SM and OEM attention.
10. R&D activities carried out in coaching stock and their significance
11. The concepts on OBHS, CTS, MCC, Pest and Rodent control
12. Various registers maintained in the coaching maintenance.
13. Procedure of IOH attention of coaching stock.
14. Concepts on CDTs and Bio toilets maintenance
15. Concepts of linen management in coaching depots.
16. Various coach dimensions.
17. Latest developments/modifications in coaching stock.
18. CMM (Coach Maintenance Module).

II. Wagon maintenance activities

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

III. General

1. Break down attention facilities set up in SC division.
2. Brake binding on pass through trains and corrective & preventive action.
3. Train parting on pass through and corrective & preventive action.
4. Roller bearing failures in coaching & wagon stock and corrective & preventive action.
5. General arithmetic, general English and general knowledge
6. Major and minor penalties, leave and pass rules.
7. Knowledge on stock items, non stock items and imprest stores.
8. Basics of Official Language Act, 1963 and 1976.
9. Incentives given for implementing official language.


Sr.DME/Co-ord/SC

CARRIAGE & WAGON

1. Certain inputs are required from mechanical side for running trains at a maximum speed of 120 KMPH. Which of the following statement is not true?
 - (a) The coaches should be ICF all coil type.
 - (b) **The coaches should be fitted with 13.25t bogie.**
 - (c) The coaches should be air-conditioned.
 - (d) The coaches should be maintained to technical pamphlet C-7807
2. Which of the following conditions required for operation of 24 coach trains is not true?
 - (a) It should be Air brake with twin pipe graduated release system
 - (b) In case of double headed diesel locos maximum traction motor current will be restricted to 650 amperes
 - (c) Primary maintenance of the rake should be done in one hook without splitting
 - (d) **Minimum maintenance time of 4 hours on the pit during primary maintenance**
3. Which is not the advantage of Axle driven/self-generation system?
 - (a) Each unit being independent can work as slip coach
 - (b) In case of failure of generating equipment in 2 or 3 coaches, power can be drawn from adjacent coach by means of cable connection.
 - (c) Safe low work voltage.
 - (d) **Less initial cost.**
4. Which is not advantage of End-On Generation system?
 - (a) Low initial cost.
 - (b) Low maintenance cost.
 - (c) No power is required to drive the axle generators.
 - (d) **No restriction on interchangeability of coaches.**
5. What do Yellow strips on end wall panels of coaches represent?
 - (a) Coaches fitted with enhanced capacity screw coupling.
 - (b) **Anti telescopic coach body**
 - (c) Coach fitted with bogie mounted air-brake cylinders.
 - (d) Vacuum brake train.
6. What does White dumbbell mark on end wall panels of coaches represent?

- (a) Coach fitted with enhanced capacity screw coupling.**
 - (b) Anti telescopic coach body.
 - (c) Coach fitted with bogie mounted air-brake cylinders.
 - (d) Vacuum brake train.
- 7. What does the vertical yellow color line at end body corner of coach indicate?
 - (a) Coach fitted with enhanced capacity screw coupling.
 - (b) Anti telescopic coach body.
 - (c) Coach fitted with CBC**
 - (d) Vacuum brake train.
- 8. Yellow strips on exterior panel above the Lavatory window on coaches represent?
 - a) Coach fitted with enhance capacity screw coupling.
 - b) Second class general coach.**
 - c) Coach fitted with bogie mounted air-brake cylinders.
 - d) Vacuum brake train.
- 9. What is WSP?
 - a) Wheel slide protection**
 - b) Wheel slip provision
 - c) Wheel skid provision
 - d) Wheel shoe protection.
- 10. What is LSD?
 - a) Low Sensor Divider
 - b) Load Sensing device**
 - c) Load sensing divider
 - d) light sensing device
- 11. What is Auxiliary relief medical equipment coded as?
 - a) ART
 - (b) ARB
 - (c) ARME**
 - (d) ARMY
- 12. What is MEMU?
 - a) Mainline electric multiple unit.**
 - b) Model electric multiple unit.
 - c) Modern electric multiple unit.

d) mixed electric multiple unit.

13. Full name of PEASD?

a) Passenger emergency alarm sensing device.

b) Passenger emergency alarm signal device

c) Permanent emergency alarm signal device.

d) None of the above.

14. Yellow zebra stripes on wagons-what does it signify?

a) Departmental wagon

b) Sponsored wagon

c) Wagon for liquid stock

d) Wagon for animals.

15. Which of the following are the consequences of brake binding on the Railway system?

a) Damage to the wheels & sometimes coaches detachments resulting revenue loss.

b) Poor riding quality.

c) Damage to rolling stock components such as roller bearings, springs etc.

d) All the above.

16. The standard wheel gauge of passenger BG coaching stock is?

(a) 1602mm

(b) 1601mm

(c) 1603mm

(d) 1600mm

17. The length over buffer of ICF/RCF coach is-?

(a) 22297mm

(b) 22299mm

(c) 21996mm

(d) 21030mm

18. What is the length of coach over buffer of IRS coach?

(a) 22297mm

(b) 22296mm

(c) 21336mm

(d) 21996mm.

19. Over all width of ICF/RCF coach is?

(a)3251mm

(b) 3250mm

(c)3245mm

(d)3991mm

20. The maximum wheel gauge of passenger BG coaching stock is?

(a)1602mm

(b)1601mm

(c)1603mm

(d)1600mm

21. The height from rail level of ICF/RCF coach is-?

(a)3886mm

(b) 4025mm

(c)3991mm

(d)3251mm

22. The minimum wheel gauge of passenger BG coaching stock is?

(a)1602mm

(b)1601mm

(c)1603mm

(d)1599mm

23. How many emergency windows are provided in AC ICF/RCF coaches?

a) Two

(b)three

(c)four

(d)five

24. What do you mean by FRP?

(a)Fiber reconstruction panel

(b) Fiber reinforced plastic

(c) First reduction plastic

(d) fine reinforced panel

25. From where is the weight of the body transferred on trolley in an ICF coach?

(a) Journal

(b)Wheel

(c)Side bearer

(d)Dashpot

26. The full form of AR
- (a) Axle on road
 - (b) Axle reservoir
 - (c) Auxiliary reservoir**
 - (d) None of the above
27. The full form of BP
- (a) By pass
 - (b) Brake pipe**
 - (c) Bent pipe
 - (d) None of the above
28. Full form of BC-
- (a) Brake control
 - (b) Beside coach
 - (c) Brake cylinder**
 - (d) Branch cylinder
29. What is the Transportation code of second class fitted with self generating electrical equipment?
- (a) SG
 - (b) GS**
 - (c) GY
 - (d) GSD
30. The expanded name of PEAV is
- a) Power energy alarm valve
 - (b) Passenger emergency alarm valve**
 - (c) Passenger entrance alarm valve
 - d) Passenger emergency Application valve
31. The full name of ACP is-
- a) Air condition pipe
 - b) Air cooler pipe
 - c) Alarm chain-pulling**
 - d) Air cylinder piston
32. Of which brake van is the quick coupling an important part?
- (a) BVZT
 - (b) BVZX

(C) BVZC

(d) BVZM

33. What is the Transportation code of inspection carriage (Administrative)?

(a) AR

(b) CR

(c) IC

(d) RA

34. What is the length over Headstock of the BOXN wagon?

(a) 9774mm

(b) 9784mm

(c) 9777mm

(d) 9848mm

35. Tare weight of the BOXN wagon is

(a) 22.37 tons

(b) 22.47 tons

(c) 23.80 tons

(d) 24.80 tons

36. Tare weight of the BRN wagon is-

(a) 25.2 tons

(b) 24.4 tons

(c) 23.80 tons

(d) 24.80 tons

37. What is the length over couplers of the BOXN wagon?

(a) 10713mm

(b) 10813mm

(c) 11002mm

(d) 10100mm

38. What is the length over couplers of the BCN wagon?

a) 15400mm

b) 15443mm

c) 15429mm

d) 15563mm

39. What is the length over couplers of the BRN wagon?

(a) 14645mm

(b)14564mm

(c)14332mm

(d)14463mm

40. Gross load of the BOXN wagon is-

(a)78.92t

(b)81.28t

(c)86.78t

(d)88.81t

41. Gross load of the BRN wagon is-

(a)78.92t

(b)81.28t

(c)81.3t

(d)82.4t

42. Overall height of BOBR wagon from rail level is-

(a)3735 mm

(b)3998mm

(c)4324mm

(d)4532mm

43. Tare weight of the BCN wagon is ?

(a)22.47tons

(b)25.37tons

(c)27.20 tons

(d)27.80tons

44. Transportation codes of the pantry car is ?

(a) BC

(b)PC

(c)WCB

(d)CD

45. C-Class ODC shall be moved during ?

(a) **Daylight**

(b)Day-nighttime

(c) Only nighttime

(d) None of the above

46. The full form of CR is-

- (a) Central Reservoir
- (b) Cylindrical reservoir
- (c) Control reservoir**
- (d) None of the above

47. What is the frequency of schedule-A for coaching stock?

- a) One month+1day
- b) one month+3days**
- c) one month+5days
- d) one month+7days

48. Which of the following stock does not have the ROH frequency of 24 months?

- (a) BCCNR
- (b)BOXN**
- (C)BOXNLW
- (d)BOBRN

49. Coaching stock accident involving human life enquiry by?

- (a) PCME
- (b)CRS**
- (c)DRM
- (d) Sr.DME

50. What defect is detecting UST test?

- (a) **Internal Cracks**
- (b)External cracks
- (c)Air Blow cracks
- (d) None of the above

51. What is Codal life of steel bodied coaches (Including dining / pantry cars)

- (a)35years
- (b)18years
- (c)15years
- (d) 25years**

52. What are the essential requirements for running trains at 120kmph/130kmph?

- i. All coaches should be ICF all coil type
- ii. All coaches should be fitted with 16 T bogie
- iii. All coaches should be maintained as per technical pamphlet C-7807

- a) 1&2
- (b) 2&3
- (c) 1&3
- d) all the above**

53. As per board's guidelines, how much maintenance time should be given to a 24 coach length trains during primary maintenance?

- a) 4hrs
- (b) 6hrs**
- (c) between 4-6hrs
- (d) 8hrs

54. What is the periodicity of ROH for BOXN wagons?

- (a) 24months
- (b) 12months
- (c) 36months
- (d) 18months**

55. What is the periodicity of POH for newly built BOXN wagons?

- a) 42months
- (b) 48months
- (c) 36months
- (d) 72 months**

56. Codal life of light utilization categories of coaches is ?

- a) 35years
- (b) 40years**
- (c) 45years
- (d) 30years

57. The intensive cleaning of any coach is carried out after an interval of ?

- a) 3months
- (b) 1 month**
- (c) 6months
- (d) 8months

58. What is the interval for cleaning coach water tank?

- a) 15days
- (b) 25days
- (c) 1 month**

- (d) 2months
59. What shall be the periodicity for POH for a coach attached to mail/express train?
- a) 9 months
 - (b) 12 months
 - (c) 18 months**
 - (d) 24 months
60. What is the periodicity for cleaning of carpet of AC compartments?
- a) 2months
 - (b) 1month**
 - (c) 15days
 - (d) 3months
61. Rehabilitation of coaching stock (MLR) is carried out between-
- (a)10-12years
 - (b)12-15 years**
 - (c)15-18 years
 - (d) 18-20years
62. Cost of Mid Life Rehabilitation 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
63. AT what interval, the IOH of a BG coach is carried out?
- a) 1month±3days
 - (d)3months±3days
 - (c) 6months±7days
 - (d) 9 months+30days**
64. What is the interval of schedule 'B' examination of a coach?
- a) 1 month±3 days
 - (b) 2 months±3 days
 - (c) 3 months±7days**
 - (d) none of the above
65. What is the interval of cleaning/flushing of overhead water tank?
- a) every trip
 - (b)every month**

- (c) every 3 months
- (d) every 6 months

66. The revised maximum payloads of NMG coaches are?

- (a) 7.39t
- (b) 8.23t
- (c) 9.2t**
- (d) 10.3t

67. At what interval the IOH of Shatabdi coaches is carried out?

- (a) 12 months at Depot
- (b) 9 months at Workshop**
- (c) 9 months at Depot
- (d) none of the above

68. A toilet in which biological degradation of human waste by inoculums takes place, is called a

- a) Vacuum Toilet
- (b) Control Discharge Toilet
- (c) Bio-Toilet**
- (d) None of the above

69. Under which schedule is single car test is carried out?

- (a) **IOH**
- (b) A-schedule
- (c) B-schedule
- (d) none

70. POH periodicity of DV of?

- a) 3 years or 8 lakh kms whichever is earlier
- b) 5 years or 6 lakh kms whichever is earlier**
- c) 4 years or 6 lakh kms whichever is earlier
- d) 4 years or 4 lakh kms whichever is earlier

71. After which interval the roof leakage in all ICF coach checked?

- (a) 1 month
- (b) 2 months
- (c) 3 months
- (d) 6 months**

72. What is the interval of inspecting the side bearer oil level?

(a) **1month**

(b) 25days

(c) 20days

(d) 10days

73. What is the interval of checking the dash pot oil in mail /express train?

(a) 15 days

(b) 25 days

(c) **1 month**

(d) 2 months

74. Under which schedule, the over hauling and testing of alarm chain apparatus is carried out?

(a) A schedule

(b) **B schedule**

(c) C schedule

(d) Special schedule

75. In Bio-Toilet human waste is converted

(a) Fumes and gas

(b) **Water and Gas**

(c) Water and fumes

(d) Sublimation

76. What is the periodicity of the schedule D2 for all types of LHB coaches?

a) **1 month± 3 days**

(b) 3 monthly ±15 days

(c) 6 monthly ±15days

(d) yearly± 30days

77. What is the periodicity of the SS-I schedule of all type of LHB coaches?

a) yearly±15days/ 6 lakhs Kms earned whichever is earlier

b) Threemonths±15days/ 4 lakhs Kms earned whichever is earlier

c) six months±15days/ 6 lakhs Kms earned whichever is earlier

d) 18 months ± 30 days/ 6 lakhs kms earned whichever is earlier

78. What is the periodicity of the SS-2 schedule for all type of LBH coaches?

a) 36 months /12lakhs km earned whichever is earlier

b) (b) 24 months / 12lakhs km earned whichever is earlier

c) Six months±30days / 12lakhs km earned whichever is earlier

d) yearly±60days / 12lakhs km earned whichever is earlier

79. First POH periodicity for the newly built BLC containers wagon is ?

a) 4.5years

(b) 5.5 years

(c) 6.0years

(d)6.5years

80. The BOXN bogie is designed for an axle load of–

(a)20.50t

(b)20.80t

(c)20.30t

(d)20.10t

81. POH periodicity of BG brake van is-

a) 3.5years

(b) 2.0years

(c)6.0years

(d) 3.5years

82. What time relaxation period has been given to a loaded BOXN wagon for sending for POH?

a) After15days

(b) After30days

(c) Before30 days

(d) Before 15days

83. What time relaxation of period has been given it an empty BOX wagon for sending for POH?

a) Before 15 days

(b) After 30 days

(c) Before 30 days

(d) Before 15 days

84. What do you mean by PME in connection with goods stock?

a) Premedical examination

b) Pre maintenance examination

c) Periodical maintenance examinations

d) Power mechanical equipment

85. What do you mean by CC rakes?

- (a) Constant contact pad
- (b) close circuit rake**
- (c) complete coal rake
- (d) both B and C

86. Dirt collector should be cleaned in case of Wagons.

- a) **at the time of ROH**
- (b) 2 months
- (c) 6 months
- (d) 3 months

87. ROH interval in BTPN tank wagon is.....

- (a) 16 months
- (b) 20 months
- (c) 18 months
- (d) 24 months**

88. What is the thickness of roof sheet in ICF coach?

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

89. What is the diameter of compression tube under lavatory portion?

- (a) 85.0mm
- (b) 80.0mm
- (c) 65.0mm**
- (d) 70.0mm

90. Thickness of side wall sheet of ICF/RCF coach is.....

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

91. Thickness of trough floor of ICF/RCF coaches is....

- a) 1mm
- (b) 3mm**
- (c) 5mm
- (d) 7mm

92. Sole bar of ICF coaches consists of.....
- a) **Z section**
 - (b) I section
 - (c) Y section
 - (d) U section
93. Which type of brake blocks are used in bogie mounted brake system?
- a) L-type
 - (b) K-type**
 - (c) Cast iron
 - (d) Sand Casting
94. Which of the following statement is not true?
- a) Sand casting brake blocks can be provided with bogie mounted air brake coach under certain conditions**
 - b) Fitment of K-type high friction composite brake block should only be ensured in modified brake shoe heads, meant for the fitment of said brake block.
 - c) Composite brake blocks having lug at their top and bottom (L-type) should not be fitted in modified brake shoe heads, this will cause uneven wear of brake block and will not fulfill the requirements of bogie mounted airbrake.
 - d) Mixing of levers and curved profile pull rods for non-AC coaches (13 T bogies) and AC coaches (16T bogies) should be restricted as the separate design components have been introduced in BMBC stock for 13T and 16T coaches.
95. Name of the bacteria used in Bio-Toilet
- a) Anaerobic Bacteria**
 - b) Aerobic bacteria
 - c) Bio bacteria
 - d) None of the above
96. Which of the following can be degraded by anaerobic bacteria?
- (a) Acids
 - (b) Anti Acids
 - (c) Detergents**
 - (d) Bases
97. Which of the following statements is true in case of anaerobic bacteria?
- (a) It can survive without oxygen

- (b) It can survive without feed
 - (c) It can double its population in 30 min to 16hrs.
 - (d) All the above**
98. How many liters of Inoculums to be filled initially in Bio-Toilet?
- (a) 100lit
 - (b) 120lit**
 - (c) 150 lit
 - (d) 200lit
99. What level of dash pot oil is being maintained on the coaches at washing line?
- (a) 50mm
 - (b) 60mm
 - (c) 40mm**
 - (d) 20mm
100. What is the radius at the root of flange of a new wheel?
- (a) 22mm
 - (b) 16mm**
 - (c) 18mm
 - (d) 20mm
101. At what thickness of flange on a high-speed coach, the wheel set will be condemned?
- (a) 21mm
 - (b) 24mm
 - (c) 22mm**
 - (d) 29mm
102. Thickness of flange is measured at what distance below the top of the flange?
- (a) 14mm
 - (b) 16mm
 - (c) 18mm
 - (d) 13mm**
103. At what radius at the root of flange the wheel set will be declared as having less root radius?
- (a) 13mm**
 - (b) 15mm
 - (c) 14.5mm

(d) 16mm

104. Sharp flange will occur when the top radius at the corner towards the tread reduces to?

a) 6mm

(b) 5mm

(c) 4mm

(d) 4.5mm

105. oil is used in dash pot guide?

a) Servo RR-3

(b) servo line 68 (shell cornia oil)

c) Lithium base grease

(d) none of the above

106. What is the maximum limit of flat place in an ICF coach?

(a) 60mm

(b) 30mm

(c) 50mm

(d) 40mm

107. What is the color of group B springs?

(a) Red

(b) Yellow

(c) Green

(d) Blue

108. While the coach is negotiating curve, the bogie can move around having the pivot point at

a) Side Bearer centre

b) Centre –pivot

c) Centre of the axle

d) Dash pot springs

109. Why is two stage suspension preferred over single stage suspension?

(a) to keep un-sprung masses low

(b) to provide greater isolation of vibrations

(c) both A and B

(d) none of the above

110. Which of the following part is not provided in an ICF trolley?

- a) Dashpot
- (b) side bearer
- (c) shock absorber

(d) drag link

111. Maximum permissible clearance between brake gear pin and bushes is –

- (a) 0.5mm
- (b) 1.0mm
- (c) 1.5mm**
- (d) 2.0mm

112. In ICF coach the load transmission takes place through–

- a) Center pivot
- (b) bogie
- (c) Side bearer**
- (d) wheel

113. The ‘L’ type composite brake block should be changed, if worn out beyond–

- (a) 10mm**
- (b) 15mm
- (c) 20mm
- (d) 22mm

114. The ‘K’ type composite brake block should be changed, if worn out beyond–

- (a) 10mm
- (b) 12mm**
- (c) 20mm
- (d) 22mm

115. Standard Packing pieces of ICF coach are–

- (a) 13, 14, 26mm
- (b) 13, 22, 28mm
- (c) 13, 26, 48 mm**
- (d) 22, 26, 32mm

116. The standard thickness of compensating rings is–

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

117. What is the purpose of manipulator?
- (a) For testing roller bearing
 - (b) For down hand welding**
 - (c) For ROH
 - (d) For brake ring adjustment
118. What is the distance between axle box top and axle box crown bolt called?
- a) **Clearance A**
 - (b) Clearance B
 - (c) clearance C
 - (d) None of the above
119. The top and bottom flange thickness of 16.25 tons axle load bogie is-
- (a) 14mm
 - (b) 16mm**
 - (c) 15mm
 - (d) 20mm
120. Initially the 16.25 tons axle load bogie is used in coaches only?
- a) WGS
 - (b) AC**
 - (c) WGSCN
 - (d) Non-AC
121. Axle load capacity generator (WLLRM) coach is?
- a) 16tons
 - (b) 16.25tons**
 - (c) 15tons
 - (d) 20.30tons
122. The top and bottom flange thickness of 13 tons load bogie is ?
- (a) 14mm
 - (b) 12mm**
 - (c) 15mm
 - (d) 20mm
123. 13 tons axle load bogies are used in coaches?
- a) PVH
 - (b) AC
 - (c) Power car

(d) Non-AC

124. Condemning flange thickness in a high speed ICF coach is-
- a) 14mm
 - b) 13mm
 - (c) 22mm**
 - (d) 10mm
125. Lateral movements of wheels controlled by
- a) axle guide**
 - b) journal center
 - c) roller bearing
 - d) dashpot
126. Bogie wheel base of ICF/RCF all coil bogies are—
- a) 2896 mm**
 - b) 2986mm
 - c) 2886 mm
 - d) 2997mm
127. What is the new wheel diameter of ICF/RCF coach is—
- a) 910mm
 - b) 915 mm**
 - c) 930 mm
 - d) 925mm
128. Min shop issue size of ICF solid wheel is a-
- a) 837 mm**
 - b) 870mm
 - c) 854 mm
 - d) 846mm
129. Flange thickness of new BG wheel coach is—
- a) 28mm
 - b) 28.5mm**
 - c) 29.5mm
 - d) 27.5mm
130. Condemning flange thickness of other than super fast BG wheel is—
- a) 28mm
 - b) 20mm

c) 16mm

d) 14mm

131. What is the frequency for doing sample testing of effluent of Bio-Toilet?

a) 100 days

b) 90 days

c) 180 days

d) 120days

132. Condemning height of flange on thread on BG wheel is—

(a)30mm

(b)32mm

(c)34mm

(d) 35mm

133. To disinfect the discharged water which of the following is provided in Bio-Toilet.

a) Chlorine tablet

b) KMn_4 Tablet

c) Any of the above

d) None of the above

134. Total length of axle is—

(a) $2310+0.5/-0.0$ mm

(b) $2316+0.5/-0.0$ mm

(c) $2318+0.5/-0.0$ mm

(d) $2320+0.5/-0.0$ mm

135. On ICF journal, a taper should not exceed—

(a) 0.010/0.015 mm

(b) 0.015/0.010 mm

(c) 0.010/0.025 mm

(d) none

136. On ICF journal, out of roundness (ovality) must not exceed-

(a) 0.010/0.015 mm

(b) 0.015/0.010 mm

(c) 0.015/0.020 mm

(d) none

137. What is the capacity of equalizing stays used in shatabdi express?

a) 22tons

- b) 20tons
 - c) 16tons**
 - d) 14tons
138. What is amount of the oil per side bearer in ICF coaches?
- (a) 1.2 lts
 - (b) 1.6 lts
 - (c) 2.0 lts**
 - d) 2.2 lts
139. With which component of the trolley, the lateral longitudinal guides of ICF bogie are mounted?
- (a) dashpot**
 - (b) side bearer
 - (c) CBC
 - (d) spring
140. What is the distance between side bearer of ICF coach?
- (a)1560mm
 - (b)1590mm
 - (c)1600 mm**
 - d) 1610mm
141. What types of brake blocks are used in coaching stock?
- a) L type
 - b) K type**
 - c) CI type
 - d) All types
142. In released position, the gap between brake block and wheel is
- a) 3mm
 - b) 4mm
 - c) 5 mm**
 - d) 7mm
143. What is the oil level in dashpot?
- (a)50mm
 - (b)40 mm**
 - (c)75mm
 - (d) 90mm

144. What is the amount of oil per dash pot in 40- mm depth in modified guide arrangement?
- (a) 1.6 lts**
 - (b) 2.5lts
 - (c) 2.2lts
 - (d) 1.9lts
145. In ICF & RCF bogies, the total height of primary spring and compensating spring should not exceed-----
- (a)285mm
 - (b)290mm
 - (c)295mm**
 - (d) 300mm
146. The minimum clearance between the axle box lugs and their safety straps is-
- (a)36mm
 - (b)40 mm**
 - (c)44mm
 - (d) 43mm
147. The crown clearance “A” between the axle box crown and their bogie frame of GS, SLR, SCN, VPH, coaches is-
- (a)40±2mm
 - (b)43+0/-3 mm**
 - (c)42±0/4mm
 - (d) 45±2mm
148. In WGACCW and WGACCN coaches, the crown clearance between the axle box crown and the bogie frame is-
- (a)30±2mm
 - (b)30±5mm
 - (c) 27+0/-3 mm**
 - (d) 25±0/3mm
149. What is the bolster weight of ICF bogie?
- (a)0.234t
 - (b)0.400t**
 - (c)0.486 t
 - (d) 0.513t

150. How many holes are provided in the guide cap in ICF/RCF bogie?

- (a) 5
- (b) 7
- (c) 9**
- (d) 11

151. What is the diameter of guide cap hole in ICF/RCF bogie?

- a) 4mm
- b) 3mm
- c) 5 mm**
- d) 7mm

152. Center pivot pin does not transit—

- (a) Horizontal load
- (b) attractive force
- (c) Braking force
- d) vertical force**

153. New dimension of side bearers wearing plate is—

- (a) 10 mm**
- (b) 12mm
- (c) 14mm
- (d) 16mm

154. Condemning size of side bearer wearing plate is—

- (a) 10mm
- (b) 9mm
- (c) 8.50 mm**
- (d) 7.50mm

155. Dimension of a new side bearer wearing piece is—

- (a) 45 mm**
- (b) 44mm
- (c) 43mm
- (d) 42mm

156. What is the condemning size of side bearer wearing piece?

- (a) 45mm
- (b) 44mm
- (c) 43mm

(d) 42mm

157. Length of the anchor link is

(a) 445 ± 1 mm

(b) 450 ± 1 mm

(c) 451 ± 1 mm

(d) 455 ± 1 mm

158. Which mechanism is provided to control the speed of the coach by transferring the braking force from brake cylinder to the wheel thread?

a) brake rigging

b) pushrod

c) anchor link

d) brake cylinder

159. New size of hanger block of BSS hanger is—

(a) 9.5 mm

(b) 10.5mm

(c) 8.5mm

(d) 9mm

160. What is the wear limit of hanger block of BSS hanger?

(a) 1.0mm

(b) 2.0mm

(c) 1.5mm

d) 3.0mm

161. Wear limit of BSS brackets is—

(a) 0.5mm

(b) 1mm

(c) 1.5mm

d) 2mm

162. Longitudinal gauge for BSS bracket of 13 –t bogie is—

a) 1400 ± 1 mm

(b) 1300 ± 1 mm

c) 1500 ± 1 mm

d) 1450 ± 0.1 mm

163. Longitudinal gauge for BSS bracket of 16.25-t bogie is—

(a) 1400 ± 1 mm

(b)1500±01mm

(c)14500±01mm

(d) 13000±01mm

164. Diagonal gauge for bracket of 13 t bogie is–

(a)2687±1mm

(b)2573±1mm

(c)2159±1mm

(d) 2159±1mm

165. Diagonal gauge for BSS bracket of 16.25 t bogie is–

(a)2573±1mm

(b)2687±1mm

(c)2629±1 mm

(d) 3612±1mm

166. Longitudinal gauge for axle guide of 13 t bogie–

(a)570±1 mm

(b)580±1mm

(c)590±1 mm

(d) 595±1mm

167. Longitudinal gauge for axle guide of 16.25 t bogie–

(a)580±1mm

(b)570±1mm

(c)590±1 mm

(d) 575±1mm

168. Diagonal gauge for axle guide of 13 t and 16.25 t bogie is–

(a)3912±1mm

(b)3812±1mm

(c)3712±1 mm

(d) 3612±1mm

169. Distance between BSS bracket and adjacent axle guide of 13 t bogie is–

(a)463±1 mm

(b)453±1mm

(c)455±1 mm

(d) 413±1mm

170. Distance between BSS bracket and adjacent axle guide of 16.25 t bogie is–

(a) $463 \pm 1 \text{ mm}$

(b) $453 \pm 1 \text{ mm}$

(c) $455 \pm 1 \text{ mm}$

(d) $413 \pm 1 \text{ mm}$

171. Inside diameter of anchor link silent block in is—

(a) 25 mm

(b) 30mm

(c) 32mm

(d) 35mm

172. Outer diameter of anchor link silent block is—

(a) 85.5mm

(b) 87.5mm

(c) 90.5mm

(d) 91.5mm

173. Diameter for new pins of equalizing stay rod for 16.25 t ICF bogie

(a) $31(+0.5/-0.2 \text{ mm})$

(b) $33(+0.5/-0.3 \text{ mm})$

(c) $35 \pm 1.0 \text{ mm}$

(d) $30 \pm 1.0 \text{ mm}$

174. Diameter for new pins of equalizing stay rod for 13 t ICF bogie

(a) $31 \pm 1.0 \text{ mm}$

(b) $25 \pm 1.0 \text{ mm}$

(c) $24 + 0.2/-0.1 \text{ mm}$

(d) $20 \pm 0.51 \text{ mm}$

175. All the hangers should be tested to the tensile load of—

(a) 10t

(b) 8t

(c) 7t

(d) 6.5t

176. Inside distance between horizontal bearing arms of BSS hanger is—

(a) 374mm

(b) 378mm

(c) 381 mm

(d) 384mm

177. Thickness of vertical arm of BSS hanger is—

(a) 20.05mm

(b) 25.5 mm

(c) 30.5mm

(d) 23.5mm

178. Horizontal bearing surface of BSS hanger is—

(a) 42 mm

(b) 44mm

(c) 45mm

(d) 48mm

179. The maximum diametrical clearance between the lower spring seat and guide bush should not exceed—

(a) 1.4mm

(b) 1.5mm

(c) 1.6mm

(d) 2.0mm

180. Weight of the AC ICF bogie is—

(a) 12.80t

(b) 480 t

(c) 6.2t

(d) 7.22t

181. Length of the brake block hanger from center to center is—

(a) 235±0.5mm

(b) 238±1mm

(c) 236±1 mm

(d) 224±1mm

182. In which type of brake system external slack adjuster has been eliminated?

a) BMBC

b) UMBS

c) BMBS&UMBS

d) none

183. How many brake cylinders are fitted in an ICF under slug brake system?

(a) 4

(b) 2

- (c) 1
- (d) none

184. Wear limit of equalizing stay pins is—

- a) upto 1.0mm**
- b) upto 1.5mm
- c) upto 2.0mm
- d) none

185. Between which of the components the equalizing stay rod is fitted?

- (a) SAB head to control rod
- (b) Bolster and lower spring plank**
- (c) bolster and bogie transoms
- (d) none

186. Where is anchor link fitted in bogie?

- a) bolster and bogie transom**
- b) bolster stay rod and plank
- c) equalizing stay rod and plank
- d) none

187. 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

188. What type of axle guidance arrangement is used in ICF/RCF bogie?

- (a) oil clamping
- (b) telescopic axle guide with oil damping**
- (c) vertical oil damping
- (d) Pneumatic axle guide

189. Between which components is crown clearance “A” measured?

- a) Between bolster and side frame
- b) Between anchor link and primary suspension
- c) Between axle box crown and the crown bolt**
- d) none

190. One of the functions of anchor links is—

- a) to join bolster and side frame

b) to prevent rational movement of bolster

c) to connect with upper plank and lower plank

d) none

191. What is the free height of 13 tons bolster spring?

(a)385 mm

(b)415mm

(c)405 mm

(d) 420mm

192. Free height of 16.25 tons AC coach bolster spring is–

(a)385mm

(b)390mm

(c)400mm

(d) 410mm

193. What is the free height of 16.25 tons or AC coach axle box spring-

(a)360mm

(b)365mm

(c)375mm

(d) 380mm

194. What the free height non AC coach or 13 t axle boxes Spring?

(a)355mm

(b)360 mm

(c)367 mm

(d) 370mm

195. What is the inside length of a new bolster spring suspension hanger?

(a)380mm

(b)384 mm

(c)386 mm

(d) 388mm

196. What is the new diameter of B.S.S hanger pin?

(a)35mm

(b)36mm

(c)37mm

(d) 39mm

197. What is the condemning diameter of B.S.S hanger pin?

- (a) 35mm
- (b) 35.5mm**
- (c) 36mm
- (d) 36.5mm

198. Free height of high capacity parcel van axle box spring is–

- (a) 375mm
- (b) 360mm
- (c) 337 mm
- (d) 315mm**

199. Free height of high capacity parcel van bolster coil spring is–

- (a) 375mm
- (b) 386mm
- (c) 393mm**
- (d) 286mm

200. What is the colour code of 'A' group coil springs?

- a) Yellow**
- b) red
- c) oxford blue
- d) White

201. What is the colour code of 'B' group coils springs?

- a) Oxford blue**
- b) white
- c) green
- d) yellow

202. What is the colour code of 'C' group coils springs?

- (a) oxford blue
- (b) white
- (c) green**
- (d) yellow

203. The capacity of hydraulic shock absorbers other than those power car is–

- a) ± 600 kg at a speed of 10 cm/sec**
- (b) ± 500 kg at a speed of 10 cm/sec
- (c) ± 45 kg at a speed of 15 cm/sec
- (d) None of the above

204. Double acting telescopic type shock absorbers are used in?
- (a) Primary suspension
 - (b) secondary suspension**
 - (c) primary & secondary suspension
 - (d) none
205. Which of the following is not the feature of a CASNUB bogie?
- a) cast steel H frame bogie
 - b) floating bolster
 - c) primary suspension with long links and laminated springs**
 - d) Wedge type load proportional friction snubbing
206. Which of the following is not the feature of a diamond frame bogie?
- (a) only secondary suspension consisting of coil nest of four outer and four innersprings
 - (b) floating bolster carrying center pivot and side bearer
 - (c) un damped suspension
 - (d) cylindrical roller bearing**
207. Why are elastomeric pads provided?
- a) to reduce wheel flange wear**
 - b) to improve ride index
 - c) to increase buffer height
 - d) all the above
208. The composite brake block for air brake trains should be changed in the yard, when its thickness reaches—
- (a) 10 mm**
 - (b) 15mm
 - (c) 20mm
 - d) 25mm
209. The Std. gap between wheel and brake block in BOX wagon is-
- (a) 8mm
 - (b) 8.5mm
 - (c) 6.25 mm**
 - d) 6.8mm
210. Minimum pressure required for door operation on BOBR wagon is-
- (a) 5.0kg/cm²

(b) 4.92 kg/cm²

(c) 3.9 kg/cm²

(d) 6.3 kg/cm²

211. 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

212. On RDSO recommendations, which material is now used in BVG brake vans in place of wood dust bag?

a) Glass wool

b) Cotton wood

c) steel wood

d) none

213. Which RDSO's technical pamphlet is referred to find instructions for maintenance of BOX wagon?

(a) G-71

(b) G-73

(c) G-18

(d) G-16

214. Which RDSO's technical pamphlet is referred to find instructions of BOXN wagon fitted with CASNUB bogies and twin pipe air brake system?

(a) G-90

(b) G-70

(c) G-97

(d) WT-77

215. Which RDSO's technical pamphlet is referred to find instructions for inspection and maintenance of BOBR wagons?

(a) G-73

(b) G-78

(c) G-97

(d) G-16

216. Which RDSO's technical pamphlet is referred to find instructions for inspection and maintenance of CASNUB bogies?
- (a) G-97
 - b) G-86
 - (c) G-90
 - (d) G-95**
217. Maximum diameter of wheel on tread on BOXN wagon is-
- (a) 1010mm
 - (b) 1000mm**
 - (c) 950mm
 - (d) 906mm
218. Minimum diameters of wheel on tread on BOXN wagon during service is
- (a) 1000mm
 - (b) 960mm
 - (c) 906mm**
 - (d) 915mm
219. The axle load of BOXN, BCN, BDN BOBR, BTPN wagon is-
- (a) 22.9t
 - (b) 20.32t**
 - (c) 16.3t
 - (d) 12.2t
220. The wheel gauge should be measured on-
- a) Off load condition**
 - b) Loaded wagon
 - c) Either (a) or (b)
 - d) Empty wagon
221. The condemning diameter of wheel of BOY wagon is-
- (a) 990mm
 - (b) 906mm**
 - (c) 813mm
 - (d) 860mm
222. The new diameter of wheel for BOY wagon is-
- (a) 990mm
 - (b) 1090mm

(c)1000mm

(d)915mm

223. The condemning diameter of BOBR wheel is-

(a)815mm

(b)906mm

(c)990mm

(d)860mm

224. The condemning diameter of BTPN wheel is-

(a)813mm

(b)990mm

(c)906mm

(d)860mm

225. The radius at the root of the flange of new worn wheel profile is-

(a)14mm

(b)16mm

(c)18mm

(d)120mm

226. Permissible maximum flat surface on tread on other BG wagon are

(a)75mm

(b)60mm

(c)75mm

(d)70mm

227. The wheel gauge measures-

(a)the distance between the flanges of two wheels on same axle.

(b)the distance between dia and axle

(c)the distance between journal and bearings

(d)the distance between two wheels

228. Which of the following is an integrated portion of an axle?

(a)Cap

(b)roller bearing

(c) journal

(d) none of these

229. Permissible thickness of CASNUB bogies composite brake block while leaving yard is-

(a) **20 mm**

(b) 10mm

(c) 9mm

(d) 8mm

230. What is the permissible variations in a group for load bearing & snubber spring?

(a) 2mm

(b) **3mm**

(c) 94mm

(d) 5mm

231. What is the Std. thickness of brake block of BOXN wagon is--

(a) 52mm

(b) 54mm

(c) 56mm

(d) **58mm**

232. How many side frames are fitted in a CASNUB trolley/bogie?

(a) **2**

(b) 1

(c) 3

(d) nil

233. What is the new wheel diameter of CASNUB 22W retrofitted ?

(a) 1000mm

(b) 960mm

(c) **956mm**

(d) 946mm

234. What type of side bearers are fitted in a CASNUB 22W(M) bogie?

(a) **CC type**

(b) spring type

(c) roller type

(d) none of these

235. What type of side bearers are fitted in CASNUB 22W bogie?

a) CC type

(b) **roller type**

(c) EM type

(d) none of these

236. What type of pivot is used in a CASNUB 22W trolley?
- a) IRS type**
 - (b)spherical type
 - (c)other type
 - (d)none
237. What type of pivot is used in a CASNUB 22W(M), 22NL and other type of CASNUB trolley?
- (a)IRS type
 - (b) UIC spherical type**
 - (c)outer type
 - (d)none
238. What is the nominal lateral clearance between side frame& bolster in CASNUB22HS?
- (a)18mm
 - (b)10mm
 - (c)25mm**
 - (d) 22mm
239. What is the nominal lateral clearance between side frame & bolster in CASNUB 22W, 22WM, 22NL, 22NLB?
- (a)16mm
 - (b)11mm
 - (c)18mm**
 - (d) 20mm
240. What is the nominal longitudinal clearance between side frame & adopter of CANUB22W (M) bogie?
- a) 5mm
 - (b) 8mm
 - (c) 10mm**
 - (d) 12mm
 - (d) nil
241. What is the nominal lateral clearance between side frame & adopter of CASNUB 22NLB, 22HSbogie?
- (a)18mm
 - (b)16mm**

(c)22mm

(d)25mm

242. What is the standard inclination on wheel tread used in CASNUB bogie?

(a) **1in20**

(b) 1in22

(c) 1in18

(d) 1 in25

243. What is the condemning wheel diameter in all CASNUB versions?

(a)916mm

(b) **906mm**

(c)936mm

(d)963mm

244. What the condemning dimensions of narrow jaw/wide Adopter thrust shoulder?

(a)0.4mm

(b)0.6mm

(c) **0.7mm**

(d)0.9mm

245. What is the lateral clearance between side frame & Axle box/adopter CASNUB
22w,22w(m)

(a)18mm

(b)16mm

(c)22mm

(d) **25mm**

246. What is the condemning/wear limit of narrow/wide jaw adopter crown lugs ?

(a) 2mm

(b) **4mm**

(c)6mm

(d)8mm

247. What is the dimensions of new wide jaw adopter crown lug?

(a)155m

(b) **156mm**

(c)154mm

(d)152mm

248. What is the dimension of new narrow jaw adopter crown lugs?

- (a) 154.5mm
 - (b) 155.5mm**
 - (c) 156.5mm
 - (d) 157.5mm
249. What is the wear limit of wide /narrow jaw adopter crown seat?
- (a)2.5mm
 - (b)3.5mm**
 - (c)4.5mm
 - (d)5.5mm
250. What is the dimension of new wide jaw adepter bore seat to crown seat?
- (a)46.5mm
 - (b)47.5mm
 - (c)48.5mm**
 - (d)49.5mm
251. What is the dimension of new narrow jaw adepter bore seat to crown seat?
- (a)25.2mm
 - (b)26.2mm**
 - (c)28.5mm
 - (d)27.5mm
252. What is the dimension of new modified wide jaw adepter bore seat to crown seat?
- (a)20.5mm
 - (b)25.5mm**
 - (c)30.5mm
 - (d)35.5mm
253. Worm limit of wide jaw adepter bore seat to crown seat is—
- a) 45mm**
 - (b)247mm
 - (c)48mm
 - (d)49mm
254. Condemning limit of modified wide jaw adapter bore seat to crown seat is—
- (a)25mm
 - (b)22mm**
 - (c)27mm
 - (d)29mm

255. Condemning limit of narrow jaw adapter bore seat to crown seat is—
(a)20mm
(b)22.5mm
(c)22.7mm
(d)24.5mm
256. The condemning size of brake block of goods stock is—
(a)30mm
(b)10mm
(c)20mm
(d)15mm
257. Nominal free height of inner spring of CASNUB bogie except to HS is —
(a)260mm
(b)262mm
(c)264mm
(d)266mm
258. What is the nominal thickness of elastomeric pad of CASNUB bogie?
(a)49mm
(b)46mm
(c)48mm
(d)52mm
259. Condemning size of elastomeric pad for CASNUB bogie is—
(a)44mm
(b)43mm
(c)42mm
(d)40mm
260. Nominal dimension of side bearer rubber pad for CASNUB bogie is —
(a)114mm
(b)116mm
(c)118mm
(d)120mm
261. Condemning size of side bearer rubber pad for CASNUB bogie is —
a)11mm
b)110mm
(c)109mm

(d)108mm

262. IS ---spec of lubricant used to lubricant center pivot of the CASNUB trolley?

(a) **IS:495**

(b) Is;449

(c) IS:455

(d) None of above

263. New dimension of side frame anti – rotation lug for all CASNUB bogie is–

(a)520mm

(b)**522mm**

(c)524mm

(d)528mm

264. New pedestal crown for 22NL/NLB/HS CASNUB bogie is

(a)300mm

(b)320mm

(c)**323mm**

(d)330mm

265. Condemning dimension of side frame anti rotation lug for all CASNUB bogies is

(a)530mm

(b)522mm

(c)**528mm**

(d)524mm

266. Wear limit of pedestal side for CASNUB bogie is–

(a)1mm

(b)**2mm**

(c)4mm

(d) None of above

267. New dimension of all CASNUB bogie crown side is–

(a)151mm

(b)**152mm**

(c)154mm

(d)155mm

268. New dimension of 22W, 22W(M) CASNUB bogie pedestal side is –

(a)100mm

(b)**105mm**

- (c)110mm
(d) None of above
269. New dimension of 22NL/NLB/HS CASNUB bogie pedestal side is-
- (a)80mm
(b)85mm
(c)81mm
(d)82mm
270. Wear limit of pedestal crown roof for CASNUB bogie is-
- (a)4mm
(b)5mm
(c)6mm
(d)3mm
271. New pedestal crown roof for 22W(M) CASNUB bogie is-
- (a)310mm
(b)318mm
(c) 320mm
(d)322mm
272. Distance between new pedestal jaw (long) of CASNUB bogie is-
- (a)230mm
(b)232mm
(c)234m
(d)236mm
273. Wear limit of pedestal jaw (long) of 22NL/NLB/HS CASNUB bogie is-
- (a)2mm
(b)3mm
(c)4mm
(d)5mm
274. Distance between new pedestal jaw (short) of 22NL/NLB/HS CASNUB bogie is -
- (a)182mm
(b)186mm
(c)188mm
(d)190mm
275. New dimension of pedestal jaw CASNUB 22W, 22W(Retro) bogie is-
- (a)270mm**

(b)272mm

(c)268mm

(d)190mm

276. New dimension of pedestal jaw for CASNUB 22W(M) bogie is –

(a)270mm

(b)274mm

(c) 278mm

(d)290mm

277. Wear limit of crown sides for CASNUB bogie is-

(a)4.0mm

(b)3.0mm

(c)2.0mm

(d)5.0mm

278. New dimensions of bolster column inner gibs of all CASNUB bogies is –

(a)144mm

(b)136mm

(c)138mm

(d)132mm

279. Wear limit of bolster column inner gibs of all CASNUB bogie is –

(a)2.0mm

(b)5.0mm

(c)6.0mm

(d)8.0mm

280. New dimensions of over bolster land surface of all CASNUB bogie is–

(a)444mm

(b)446mm

(c)448mm

(d)450mm

281. New dimension of over rotation stop lugs of all CASNUB bogie is-

(a)516mm

(b)518mm

(c)520mm

(d)522mm

282. Wear limit of bolster land surface of all CASNUB bogie is–

(a)2.0mm

(b)3.0mm

(c)5.0mm

(d)7.0mm

283. Wear limit of bolster rotation stop lug of all CASNUB bogie is–

(a)1.0mm

(b)2.0mm

(c)3.0mm

(d)5.0mm

284. Nominal free height of Snubber spring of CASNUB bogie except 22 HS is –

(a)260mm

(b) 270mm

(c)282mm

(d)294mm

285. Nominal free height of inner spring of CASNUB 22 HS bogie is–

(a)261mm

(b)252mm

(c)243mm

(d)246mm

286. Nominal free height of Snubber spring of CASNUB 22 HS bogie is –

(a)291mm

(b)294mm

(c)296mm

(d)293mm

287. New dimension of bolster column outer gibs of CASNUB bogie is –

(a)224mm

(b)234mm

(c)244mm

(d)246mm

288. New dimension of bolster column outer gibs of CASNUB 22Hs bogie is

(a)232mm

(b)236mm

(c)241mm

(d)251mm

289. Wear limit of bolster column outer gids of CASNUB bogie is –
- (a) 2.0mm
 - (b) 3.0m
 - (c) 5.0mm**
 - (d) 6.0mm
290. New dimension of friction shoes wedge block of CASNUB bogie is–
- (a) 60mm
 - (b) 62mm
 - (c) 63mm
 - (d) 61mm**
291. Condemning limit of friction shoes wedge block of CASNUB bogie is–
- (a) 54mm**
 - (b) 56mm
 - (c) 58mm
 - (d) 8.0mm
292. Wear limit of vertical surface in friction shoes wedge block of CASNUB bogie is –
- (a) 5.0mm
 - (b) 6.0mm
 - (c) 7.0mm**
 - (d) 8.0mm
293. Wear limit of slope surface in friction shoes wedge block of CASNUB bogie is –
- (a) 1.0mm
 - (b) 2.0mm
 - (c) 3.0mm**
 - (d) 4.0mm
294. Normal free height of outer spring of CASNUB bogie is except HS
- (a) 260mm**
 - (b) 262mm
 - (c) 264mm
 - (d) 266mm
295. What type of side bearer is 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

296. What shall be tolerance permitted between door centerline to door hinge in a new wagon?

(a)+2/-1mm

(b)+2.5/-1.5mm

(c)±1.5mm

(d)±2.5mm

297. The BOXN bogie is designed for an axle load of ?

(a)22.1t

(b)20.3t

(c)21.9t

(d)16.8t

298. The primary lock clearance of BOBR door is—?

(a)3mm

(b) 5mm

(c)7mm

(d)4mm

299. Which of the following design improvements have been made in ICF coaches to avoid corrosion?

(a)Provision of elongated holes between pillars in side wall.

(b)Tubular structure below the lavatories.

(c)Provision of teakwood floor boards below the lavatories floor.

(d)All of the above

300. Which of the following step have helped in controlling corrosion in ICF coaches?

i. Skirting of decolite in the compartment and lavatory.

ii. sole bar in doorways strengthened by box section.

iii. Larger opening at the bottom of body doors with removable inside panel for inspection.

iv. All of the above.

301. Which of the following are helpful in preventing the corrosion in an ICF coach?

(a)Increased size of drain hole on trough floors (13mm to 29mm)

(b)End lavatories in all layouts.

(c)Stainless steel trough floors.

(d)All of the above

302. Based on Indian Railways Experience with operation of double headed trains, an updated Design of enhanced screw coupling was evolved. The ultimate strength of enhanced Coupling is
- (a) 60 t
 - (b) 112 t**
 - (c) 71.12 t
 - (d) 36 t
303. What is the working capacity of enhanced capacity screw coupling?
- (a) 36.0 t**
 - (b) 32 t
 - (c) 28 t
 - (d) 38.3 t
304. When is transition coupling / baby coupling used?
- (a) For connecting a loco with a wagon
 - (b) To connect diesel loco with an electric loco
 - (c) To detach container wagons
 - (d) For connecting CBC and screw coupling**
305. What is the purpose of draft gear?
- (a) To provide telescopic features in the coach.
 - (b) Offers considerable resistance to longitudinal crushing loads.
 - (c) To work as a cushion to smoothen the shocks during impact between vehicles.
 - (d) To transmit tractive force without shock.**
306. What is the purpose of buffing gear?
- (a) To provide telescopic features in the coach.
 - (b) Offers considerable resistance to longitudinal crushing loads.
 - (c) to work as a cushion to smoothen the shocks during impact between vehicles**
 - (d) To transmit attractive force without shock
307. Through which arrangement the tractive / braking force from the coach are transferred to bogie?
- (a) Anchor link arrangement
 - (b) Draw gear arrangement
 - (c) Buffing arrangement

(d) Center pivot arrangement

308. In ICF coach, replace Headstock if the thickness is reduced more than?

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

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

- (a) Between main head stock and auxiliary head stock**
- (b) Outer main headstock
- (c) with auxiliary headstock
- (d) None of the above

310. The maximum standard buffer height above rail level to buffer is

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

311. The minimum standard buffer height above rail level to center of buffer is –

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

312. The diameter of buffer plunger face of ICF coaches is–

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

313. What is the distance between two buffers at one end?

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

314. What is the maximum buffer plunger stroke in mm?

- (a) 127.0mm**
- (b) 129.0mm

- (c) 131.0mm
(d) 133.0mm
315. The ICF buffer plunger is made of—
a) Mild steel
(b) Cast iron
(c) Cast steel
(d) Aluminum Alloy
316. What is the slot of draft key in drawbar hook in ICF coach?
(a) 36.0mm
(b) 37.0mm
(c) 38.0mm
(d) 39.0mm
317. The draw & buffing force transmission in coach is—
(a) Center pivot
(b) Bogie
(c) side bearer
(d) wheel
318. What is Arc radius of buffer face ?
(a) 1505mm
(b) 1905mm
(c) 1305mm
(d) 1205mm
319. Nominal diameter of draw gear pin is ?
(a) 25.0mm
(b) 30.0mm
(c) 31.0mm
(d) 36.0mm
320. The projection of the shoulder on the draw hook from the Headstock is with in—?
(a) 80 to 100 mm
(b) 92 to 110 mm
(c) 92 to 120 mm
(d) 100 to 120 mm
321. Enhance capacity of buffer specification No: IRS-M 10 are fitted in all BG maintenance coach is—

(a) 910kg.m

(b) 1030kg.m

(c) 1210kg.m

(d) 1290kg.m

322. Nominal thickness of buffer casing body wall is-

(a) 9.50mm

(b) 10.50mm

(c) 11.50mm

(d) 13.50mm

323. What is wear limit of buffer casing body wall?

(a) 2.50mm

(b) 3.50mm

(c) 4.50mm

(d) 5.50mm

324. Maximum nominal thickness of buffer plunger tube wall is?

(a) 4.0mm

(b) 9.0mm

(c) 13.0mm

(d) 16.0mm

325. Maximum nominal thickness of plunger faceplate in ICF type buffer is—

(a) 19.0mm

(b) 22.0mm

(c) 24.0mm

(d) 26.0mm

326. Wear limit of plunger face plate in ICF type buffer is- ?

(a) 9.0mm

(b) 11.0mm

(c) 12.0mm

(d) 13.0mm

327. Wear limit of buffer plunger tube wall in ICF type buffer is-

(a) 2.0mm

(b) 4.0mm

(c) 6.0mm

(d) 8.0mm

328. In buffer casing, the vertical distance of holes from centre of buffer is—
- (a) $60.3 \pm 0.2 \text{ mm}$**
 - (b) $62.3 \pm 0.5 \text{ mm}$
 - (c) $59.3 \pm 0.2 \text{ mm}$
 - (d) $61 \pm 0.4 \text{ mm}$
329. In buffer casing, the horizontal distance of holes from centre of buffer is—?
- (a) $163.5 \pm 0.2 \text{ mm}$
 - (b) $169.3 \pm 0.4 \text{ mm}$
 - (c) $174.5 \pm 0.2 \text{ mm}$**
 - (d) $176.3 \pm 0.2 \text{ mm}$
330. What is the weakest link of the H type tight lock center buffer coupler?
- (a) draft gear
 - (b) knuckle**
 - (c) lock
 - (d) yoke pin
331. How many auxiliary Headstocks are provided in an ICF shell?
- (a) 02
 - (b) 03
 - (c) 04**
 - (d) 08
332. Thickness of the auxiliary Headstock is—
- (a) 8/10 mm**
 - (b) 12/15 mm
 - (c) 15/18 mm
 - (d) none
333. Destruction tube is provided inside the—
- (a) Buffer**
 - (b) Headstock
 - (c) Under sole bar
 - (d) None
334. What type of draw gear is used in brake van goods (BVG)?
- (a) Screw coupling
 - (b) CBC**
 - (c) HT coupling

- (d) NT coupling
335. Buffer center stiffener is provided between-
- (a) **Main Headstock & auxiliary headstock**
 - (b) Over main headstock
 - (c) End panel & sole bar
 - (d) none of the above
336. The maximum permissible buffer height above rail line to center of H/Stock under loaded condition is-?
- (a) 1105mm
 - (b) 1145mm
 - (c) 1115mm
 - (d) **1030mm**
337. Standard buffer projection from Headstock is-?
- (a) 650mm
 - (b) **635mm**
 - (c) 620mm
 - (d) 660mm
338. Min permissible buffer projection from Headstock is- ?
- (a) 635mm
 - (b) 600mm
 - (c) 590mm
 - (d) **584mm**
339. Standard diameter of knuckle pivot pin is- ?
- (a) 50mm
 - (b) 43mm
 - (c) **41.28mm**
 - (d) 34mm
340. Permissible diameter of knuckle pivot pin is-?
- (a) 41mm
 - (b) 38mm
 - (c) **39.5mm**
 - (d) 40.5mm
341. Standard diameter of Clevis pin is-?
- (a) 35mm

(b)38mm

(c)39mm

(d)37mm

342. Permissible diameter of clevis pin is-?

(a)35.8mm

(b)38.5mm

(c)36.5mm

(d)37mm

343. Standard dimension of shank wear plate for AAR coupler is-?

a) 12mm

(b) 8mm

(c)6mm

(d)14mm

344. Standard dimension of distance between the nose of Knuckle and guard arm is-?

(a)140m

(b)150mm

(c)127 mm

(d)12mm

345. Wear limit of distance between the nose of knuckle and guard arm is-

(a)140mm

(b)155mm

(c)125mm

(d)130mm

346. For goods train, max. Buffer height from rail level is-

a) 1105mm

(b)1115mm

(c) 1015mm

(d)1100mm

347. The maximum permissible free slack in the draft gear in service is-

(a)35mm

(b)30mm

(c) 25mm

(d)20mm

348. What is the weakest link of the center buffer coupler?

a) Knuckle

(b) Draft gear

(c) Lock

(d) yoke pin

349. The high capacity draft gears is–

a) MK- 20

(b) MK50

(c) CF21

(d) DF39

350. The high capacity of draft gears is–

a) RF 361

(b) RF-401

(c) RF-600

(d) RF-21

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

(a) 38mm

(b) 37mm

(c) 33mm

(d) 32mm

352. What type of center buffer coupler used in Indian railway?

a) ARPT type

(b) AARP type

(c) AAR type

(d) ARPA type

353. 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

354. The yield strength of knuckle of material AAR-M-201 Grade 'C' (STD) is–

(a) 180t

(b) 171t

(c) 142 t

(d) 132t

355. The yield strength of knuckle of material AAR-M-201 Grade 'E' (HT) is–

(a) 180t

(b) 171 t

(c) 142t

(d) 132t

356. The yield strength of coupler body of AAR Grade 'C' (STD) is –

(a) 180 t

(b) 169t

(c) 179t

d) 159t

357. The yield strength of coupler body of material AAR-M-211 Grade 'E' (HT) is–

(a) 180t

(b) 200 t

(c) 205t

(d) 211t

358. The yield strength of the knuckle is 180 t compared to 132 t in standard coupler; the draft capacity of HT coupler is –

a) 45% higher

(b) 36% higher

(c) 22% higher

(d) 18% higher

359. The working strength of center buffer coupler is–

(a) 100t

(b) 120t

(c) 140t

(d) 180t

360. The ultimate tensile strength of coupler body of AAR-M- 201&211 Grade 'C' (STD) is–

(a) 300t

(b) 320t

(c) 290t

(d) 270t

361. The ultimate tensile strength of coupler body of AAR-M-201&211 Grade 'E' (HT) is–

a) 408 t

(b)480t

(c)330 t

(d) 370t

362. The ultimate tensile strength of knuckle of AAR-M-201&211 Grade 'C' (STD) is –

(a)240 t

(b)250 t

(c)241t

(d) 251t

363. The ultimate tensile strength of knuckle of AAR-M-201&211 Grade 'E'(HT) is-

(a)250t

(b)280t

(c)295t

(d) 305t

364. The conventional screw coupling has a proof load of–

(a)50.9t

(b)60.0t

(c)74.3t

(d) 40.3t

365. Which among the following buffer gear assemblies absorbs the buffer impact?

a) Buffer Spring

(b) Plunger

(c)Buffer Casting

(d)Spindle

366. 416. Material AAR-m-201&211 Grade 'E' coupler is called as- ?

a) High Tensile

(b)Non-Tensile

(c)Standard

(d) None of the above

367. Clevis and Clevis pin are the part of?

(a) Alliance-II coupler

(b) Non –transition coupler

(c) Transition coupler

(d) Draw bar

368. As per watering committee recommendations, what should be the ideal distance between two consecutive watering stations on BG system?
- (a) 80-120Kms
 - (b) 120-160kms
 - (c) 200-240kms
 - (d) 160-200kms**
369. As per watering committee recommendations, the rate of flow at the delivery end of a hydrant should be more than?
- a) 60Lts/min
 - (b) 100 Lts/min**
 - (c) 40Lts/min
 - (d) 20Lts/min
370. Which RDSO pamphlet is referred to find the description of water raising system to SK - 86209 and instructions for filling water for air brake coaches?
- (a) C-9009**
 - (b) C-9011
 - (c) C-9103
 - (d) C-9105
371. Water tank capacity of ICF coach is-
- a) 1600liters
 - (b) 1800liters**
 - (c) 1500liters
 - (d) 2000liters
372. Under slung tank capacity of roof mounted AC coaches fitted with WRA system is-?
- a) 1600 liters**
 - (b) 1700liters
 - (c) 1800liters
 - (d) 2000liters
373. Minimum air pressure required for WRA is-?
- (a) 0.35kg/cm²**
 - (b) 0.45 kg/cm²
 - (c) 0.55kg/cm²
 - (d) 0.65kg/cm²
374. How many non return valves are provided in ICF coach fitted with WRA system?

(a)03

(b)05

(c) 07

(d)08

375. Maximum air pressure required for WRA is-?

a) 0.35 kg/cm²

(b)0.55kg/cm²

(c)0.65kg/cm²

(d)0.75kg/cm²

376. Which of the following are the factors responsible for slow charging of B.P .pressure?

(a) Leakage in B.P line for complete train more than 0.2kg/cm²/min

(b) Dirt/moisture in air supply resulting in the blockage of various coaches/passage of DV

(c) Insufficient supply of air through compressor/loco

(d) All of the above

377. e-dimension in freight stock is between?

(a)615-655mm

(b)350-400mm

(c)410-465mm

(d)555-575mm

378. During the process of charging, time required to raise CR pressure from 0 to 4.8kg/cm² is seconds.

a) 100-160sec

(b)60-100sec

(c)280-340sec

(d)160-280sec

379. During testing, brake release time is found out by recharging BP pressure to 5kg/cm² and time taken to release BC pressure from 3.8 to 0.4 kg/cm². This should be within Seconds in freight stock?

a) 15-20sec;45-60sec

(b)5-10sec;20-30sec

(c)10-15sec;35-45sec

(d)20-25sec;60-75sec

380. While conducting Leakage Test, what is the prescribed leakage rate?
- (a) It should not be more than $0.14 \text{ kg/cm}^2/\text{Min}$
 - (b) It should not be more than $0.7 \text{ kg/cm}^2/\text{Min}$
 - (c) It should not be more than $0.4 \text{ kg/cm}^2/\text{Min}$
 - (d) **it should not be more than $0.2 \text{ kg/cm}^2/\text{Min}$**
381. The test to know the reaction of DV to a very less reduction of BP pressure i.e., when BP pressure is reduced at the rate of 0.6 kg/cm^2 in 6 seconds is known as
- (a) **Sensitivity test**
 - (b) Insensitivity test
 - (c) Brake release test
 - (d) Emergency braking test
382. The test to check that the brakes do not apply by reducing the pressure at The rate of 0.3 kg/cm^2 in 60 seconds is known as
- (a) sensitivity test
 - (b) **insensitivity test**
 - (c) Brake release test
 - (d) Emergency braking test
383. Which item in C3W restricts the max. brake cylinder pressure to $3.8 \pm 0.1 \text{ kg/cm}^2$?
- a) A-controller
 - (b) u-controller
 - (c) **limiting device**
 - (d) Quick service valve
384. During testing what is the permissible leakage in FP & BP?
- (a) 0.14 kg/cm^2 per minutes
 - (b) 0.3 kg/cm^2 per minute
 - (c) 0.4 kg/cm^2 per minutes
 - (d) **0.2 kg/cm^2 per minute**
385. Intermediate piece is used at which at which location in air brake system?
- (a) **Between DV & common pipe bracket**
 - (b) between dirt collector & AR
 - (c) Between brake cylinder and trolley
 - (d) not used in an location
386. What is the reason for FP pressure rushing to BP pipe line?
- a) Leakage in AR

b) DV defective

c)FP pipe leakage

d)NRV defective

387. what is the condition of the DV when its handle is in vertical position?

(a) Open condition

(b) Close condition

(c) Neutral condition

(d) Working condition

388. When is empty load box device put in loaded condition?

(a) When the load exceeds 42.5t

(b) When the gross weight exceeds 42.5t

(c) When the wagon is filled between 25-50% of its capacity

(d) When the wagon is filled more than half

389. What is the size of PEV choke?

(a) 4mm

(b) **(b) 8mm**

(c) (c)6mm

(d) (d)2mm

390. What is the train pipe dia /size of air brake goods stock?

(a)25mm

(b)32mm

(c)19mm

(d)35mm

391. What does the red needle of air flow indicator point out?

(a) Maximum leakage allowed in the system

(b) Reference mark which shows initial trains leakage

(c) Current leakage in the system during run

(d) There is no such needle on the air flow indicator

392. How much leakage is allowed in a goods load as per AFI?

(a) Equal to number of wagon

(b) (b) Equal to half the number of wagon

(c)100 psi

(d) 25% more than the number of wagon

393. How will you identify brake blocks of K-type & L-type?

- (a) K-type brake block having projected lug 15mm below the both end but the L-type brake block Having projected portion at the both extreme ends
 - (b) L-type brake block having projected lug 21mm below the both ends but the k-type brake block Having projected portion at the both extreme ends
 - (c) **k-type brake block having projected lug 21mm below the both ends but the L-type brake block Having projected portion at the both extreme ends**
 - (d) None of these
394. At which rate the reduction in BP pressure take place during sensitivity test of a coach?
- (a) 0.2 kg/cm² in 6second
 - (b) 0.1kg/cm² in 6 second
 - (c) 0.3kg/cm² in 6second
 - (d) **0.6kg/cm² in 6 second**
395. What should be the maximum pressure drop in BP when the alarm chain is pulled from a coach?
- (a)0.1kg/cm²
 - (b)0.4kg/cm²
 - (c)0.2kg/cm²
 - (d)**0.8kg/cm²**
396. During insensitivity test what condition should be fulfilled to declare a DV is O.K.?
- (a) At the reduction on BP pressure @ 0.6 kg/cm² in 60 seconds, brake should not apply
 - (b) At the reduction on BP pressure @0.6 kg/cm² in 60 seconds, brake should apply
 - (c) At the reduction on BP pressure @0.3 kg/cm² in 60 seconds, brake should apply
 - (d) **At the reduction on BP pressure @0.3kg/cm² in 60 seconds, brake should not apply**
397. Which of the following are the advantages of Bogie Mounted Brake System over conventional air brake system?
- (a) The weight of the Bogie Mounted brake system is reduced by 492kg.

- (b) Breaking distance for 18 coach rake at 110kmph for bogie mounted air brake rake is less as compared to conventional air brake rake of the same coach length.
 - (c) Number of pins and bushes have been reduced to 84 from 102.
 - (d) **all of the above**
398. Which of the following statement is not correct regarding the advantages of bogie mounted brake system over conventional air brake system?
- (a) Wear and tear of wheel set is increased as friction co-efficient of composite brake block is 0.25 as compared to 0.9 for cast iron brake block
 - (b) In bogie mounted coaches, brake rigging force does not transmit to under frames such shell body does not rattle
 - (c) **Bogie mounted coaches require more maintenance as compared to conventional air brake coaches.**
 - (d) None of the above
399. Clearance measured between control rod head & barrel head face when the brake is fully released, is known as
- a) E-dimension
 - (b) C-dimension
 - (c) **A-dimension**
 - (d) H-clearance
400. It is the distance between projection tube end and mark on adjuster spindle. This value denotes the total shortening capacity of adjuster i.e. capacity available for adjustment by brake regulator, when all the brake blacks, pins & bushes are new& manual adjustment of the brake gear corresponds to wheel diameter. What is it known as?
- a) E-dimension**
 - (b) C-dimension
 - (c) A-dimension
 - (d) Leverage ratio
401. Which of the following are the advantages of composite brake blocks over conventional cast iron brake blocks?
- (a) Reduced braking distance due to uniform co-efficient of friction
 - (b) Longer life due to reduced wear of composition brake blocks
 - (c) Reduced noise during braking

(d) All of the above

402. The other name of pilot valve is-?

- (a) PESAD
- (b) **(b) PEASD**
- (c) (c)PDEAS
- (d) (d)EPASD

403. Which RDSO pamphlet is used for finding instructions or inspection / maintenance of air brake equipment on passenger coaches?

- (a)C-7512
- (b)C-7907
- (c)C-8805**
- (d)C-8703

404. Which RDSO pamphlet is used as a Maintenance manual for IRSA-600 slack adjuster?

- (a)G-92**
- (b)G-97
- (c)G-67
- (d)G-94

405. For testing loco vacuum, Dimension of hole of the test plate is–

- (a)6.0mm
- (b)8.0mm
- (c)7.5mm**
- (d)8.5mm

406. Capacity of air reservoir (AR) of the coach is–

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

407. In twin pipe system, the time taken for releasing of the brake in goods stock is–

- (a)45 to 60 sec**
- (b) 27 to30sec
- (c)75 to80 sec
- (d)120 to 140sec

408. In an air Brake Ac coach , ‘A’ dimension should be–

- (a) $18 \pm 2 \text{ mm}$
- (b) $20 \pm 2 \text{ mm}$
- (c) $22 \pm 2 \text{ mm}$
- (d) **$22 \pm 2 / -0 \text{ mm}$**

409. 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

410. How many angle cocks are provided in a vehicle in twin pipe system?

- (a) two
- (b) Three
- (c) **Four**
- (d) Six

411. What is the diameter of branch pipe attached to PEAV?

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

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

- (a) 15.0 mm
- (b) 25.0 mm
- (c) 30.0 mm
- (d) **20.0 mm**

413. BP pressure in working train is—

- (a) $6.0 \pm 0.1 \text{ kg/cm}^2$
- (b) $5.5 \pm 0.1 \text{ kg/cm}^2$
- (c) **$5.0 \pm 0.1 \text{ kg/cm}^2$**
- (d) $5.2 \pm 0.1 \text{ kg/cm}^2$

414. During charge position, Air pressure in Auxiliary reservoir is-

- (a) 6.5 kg/cm^2
- (b) 6.1 kg/cm^2
- (c) **6.0 kg/cm^2**
- (d) None of above

415. 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
416. The En route brake power percentage of mail trains should be—
(a) 80%
(b) 75%
(c) 95%
(d) 90%
417. In twin pipe system, the AR pressure should be—
(a) 5.0 kg/cm²
(b) 6.0 kg/cm²
(c) 7.0 kg/cm²
(d) 8.0 kg/cm²
418. At originating station the brake power percentage for mail/express train should be —
(a) 85%
(b) 90%
(c) 100%
(d) 75%
419. Cut off angle cock can be fitted to —
(a) FP
(b) BP
(c) **BP & FP both**
(d) None of above
420. What is the diameter of bogie mounted brake cylinder?
(a) 220 mm
(b) 210 mm
(c) 203 mm
(d) 200 mm
421. In a conventional air brake system, the No of brake cylinder in a coach are...?
(a) 3
(b) 2
(c) 1

(d) 4

422. The brake cylinder diameter of conventional air brake system is –

(a) 205mm

(b) 1305mm

(c) 325mm

(d) 305mm

423. The rate of air leakage in single car testing should not be more than–

(a) 0.02kg/cm²/min

(b) 0.1kg/cm²/min

(c) **0.2kg/cm²/min**

(d) 0.1kg/cm²/min

424. In emergency application the brake cylinder pressure rises from 0-3.6kg/cm² in–

(a) 15-29sec

(b) 5-10sec

(c) 3-5sec

(d) 8-10sec

425. Brake should not apply during insensitivity test with in–

(a) 50sec

(b) **60sec**

(c) 40sec

(d) 30 sec

426. During release after full-service application, release time of Mail/ Express coach is -

(a) 5 to 10sec

(b) 10 to 15sec

(c) **15 to 20sec**

(d) 20 to 30sec

427. check valve with choke allows air from–

(a) BP to FP

(b) FP to CR

(c) FP to AR

(d) AR to BC

428. Feed pipe diameter of Rajdhani coach is

(a) 20.0mm

(b) 25.0mm

- (c) 30.0mm
(d) 35.0mm
429. Which pressure is vented out, if the brake is manually released by QRV?
(a) BC pressure
(b) AR pressure
(c) BP pressure
(d) CR pressure
430. What is the pressure of control reservoir in coaching trains?
(a) 6.0kg/cm²
(b) 5.0kg/cm²
(c) 6.2kg/cm²
(d) 4.8kg/cm²
431. In coaching trains, auxiliary reservoir is charged to –
(a) 5.0kg/cm²
(b) 6.0kg/cm²
(c) 4.8kg/cm²
(d) 5.5kg/cm²
432. Brake pipe throughout the length of train is charged with compressed air at –
(a) 6.0kg/cm²
(b) 5.8kg/cm²
(c) 5.0kg/cm²
(d) 4.8kg/cm²
433. Feed pipe throughout the length of train is charged with compressed air at –
(a) 6.0kg/cm²
(b) 5.5kg/cm²
(c) 5.0kg/cm²
(d) 4.8kg/cm²
434. After brake application, the control reservoir is disconnected from the—
(a) Brake pipe
(b) Auxiliary reservoir
(c) Brake Cylinder
(d) Feed pipe
435. Reduction in BP pressure for minimum application is—
(a) 1.0 to 1.5kg/cm²

- (b) (b) 0.8 to 1.0 kg/cm²
(c) **0.5 to 0.8 kg/cm²**
(d) 0.1 to 0.5 kg/cm²
436. Reduction in BP pressure for service application is –
(a) 1.0 to 0.5 kg/cm²
(b) 1.0 to 1.5 kg/cm²
(c) 0.5 to 0.8 kg/cm²
(d) **0.8 to 0.1 kg/cm²**
437. Reduction in BP pressure for full-service application is –
(a) **1.0 to 1.5 kg/cm²**
(b) 0.8 to 1.0 kg/cm²
(c) 0.5 to 0.8 kg/cm²
(d) 0.1 to 0.5 kg/cm²
438. Reduction in BP pressure for emergency application is –
(a) 1.0 to 1.5 kg/cm²
(b) **1.5 kg/cm² & above**
(c) 0.5 to 0.8 kg/cm²
(d) 3.8 to 5.0 kg/cm²
439. After releasing of brakes, brake cylinder is isolated from the auxiliary reservoir by.
(a) **Distributor valve**
(b) control reservoir
(c) Brake pipe
(d) Feed pipe
440. The colour of brake pipe in coaching trains is –
(a) Black
(b) Yellow
(c) **Green**
(d) white
441. The colour of feed pipe in coaching trains is –
a) Black
b) Yellow
(c) Green
(d) **white**
442. Cut off angle cock fitted on the brake pipe is painted –

- a) Black
- (b) Yellow
- (c) Green**
- (d) white

443. Cut off angle cock fitted on the feed pipe is painted—

- (a) Black
- (b) Yellow
- (c) Green
- (d) white**

444. How many dirt collectors are fitted with under frame mounted air brake system on every coach?

- (a) Two**
- (b) One
- (c) Three
- (d) None of above

445. What is choke diameter of guard's emergency brake valve?

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

446. A device provided in the brake rigging for automatic adjustment of clearance /slack Between brake block and wheel is called-

- (a) Brake cylinder
- (b) Brake Regulator**
- (c) Distributor valve
- (d) control Reservoir

447. What type of slack adjuster is used in passenger coaches?

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

448. In goods stock the AR charging time from 0 to 4.8 kg/cm², for testing C3W DV, is...?

- (a) 170±10sec

(b) 175±30sec

(c) 280±30sec

(d) 180±20sec

449. In goods stock for testing C3W DV, the CR charging time from 0 to 4.8 kg/2 is

(a) 170±10sec

(b) 165±20sec

(c) 160±10sec

(d) 210±20sec

450. In goods stock for testing KE type DV, the CR charging time from 0 to 4.8 kg/cm² is—

(a) 170 to 200sec

(b) 160 to 210 sec

(c) 160 to 180 sec

(d) 180 to 210 sec

451. During brake release, air from BC goes to ?

(a) AR

(b) CR

(c) DV

(d) Atmosphere

452. The three-branch pipe is attached to the common pipe bracket, where the middle pipe leads to

(a) CR

(b) DV

(c) BC

(d) AR

453. During testing of C3W /KE type DV, after full service application the brake cylinder filling time from 0 to 3.6 kg/cm² is – (coaching stock)

a) 3 to 5sec

(b) 5 to 10sec

(c) 10 to 15sec

(d) 12 to 8sec

454. During testing of C3W /KE type DV, after releasing the brake cylinder release time from max BC pressure from 3.8 ± 0.1 kg/cm² To 0.4 kg/cm² is – (coaching stock)

(a) 3 to 5 sec

(b) 5 to 10sec

(c) 10 to 15sec

(d) 15 to 20sec

455. During testing of C3W / KE type DV, after emergency application the brake cylinder filling time from 0 to 3.6 kg/cm² is- (coaching stock)

(a) 3 to 5 sec

(b) 5 to 8

(c) 8 to 10sec

(d) 10 to 15 sec

456. Which of the following types of isolating cocks are provided in the passenger coaches?

a) **Ball type**

(b) Wall type

(c) Dome type

(d) C3W type

457. The type of dirt collector used in bogie mounted passenger coaches is—

(a) 2-way

(b) 4-way

(c) 3-way

(d) 1-way

458. Total no. of MU washer used in a twin pipe passenger coach is?

(a) 3

(b) 4

(c) 2

(d) 6

459. In single car leakage test, the air pressure drop should not exceed—

(a) 0.35 kg/cm²/min

(b) 0.2 kg/cm²/min

(c) 0.28 kg/cm²/min

(d) 0.3 kg/cm²/min

460. When DV is in Isolation condition, the position of DV handle is

a) Horizontal

b) (b) Inclined

c) (c) Vertical

d) (d)Parallel

461. How many DVs as a percentage of the total population should be kept as spares

(a)10%

(b) 5%

(c)2%

(d)10%

462. What is the capacity of control reservoir of passenger coach?

(a) 6.0 liter

(b) 7.0 liter

(c) 9.0 liter

(d) 10.0 liter

463. Length of air brake Hose is _

(a) 790mm

(b) 660mm

(c) 839mm

(d) 844mm

464. 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) $4.1 \pm 0.1 \text{ kg/cm}^2$

465. DV is directly mounted on—

(a) AR

(b) Brake pipe

(c) Brake cylinder

(d) common pipe bracket

466. From which component is compressed air supplied to C3W DV?

(a) FP

(b) Cut off valve

(c) BP

(d) Main valve

467. Which of the following valves in C3W DV controls charging of CR?

(a) Main valve

- (b) **Cut off valve**
 - (c) Quick service valve
 - (d) Limiting device
468. The angle cock of wagon can be fitted on the coach provide d it is having
- (a) Nut
 - (b) Nut & Bolt
 - (c) Reducer
 - (d) **Reducer with inner & outer threads**
469. Cut off angle cock in open position of the handle is.....
- (a) **Parallel to pipe**
 - (b) Parallel to pipe or perpendicular to pipe
 - (c) Perpendicular to pipe
 - (d) (d) None of the above
470. Cut off angle cock in close position of the handle is.....
- a) Parallel to pipe
 - b) Parallel to pipe or perpendicular to pipe
 - c) **Perpendicular to pipe**
 - d) None of the above
471. The full from of CR is–
- (a) Central reservoir
 - (b) cylindrical reservoir
 - (c) **control reservoir**
 - (d) None of the above
472. In air brake system of coach, the following is fitted?
- (a) 1BP 1FP 1DC
 - (b) 1BP 2FP 1DC
 - (c) **1BP 1FP 2DC**
 - (d) 2BP 2BP 2DC
473. Control reservoir in an air brake system is–
- (a) To control FP pressure
 - (b) To control DV valve
 - (c) **To control Brake system**
 - (d) None of the above
474. Auxiliary reservoir is assisting in?

- (a) Charging of DV
 - (b) Charging of BP
 - (c) **Sending air to BC**
 - (d) Charging of CR
475. Air hose can be connected to—?
- (a) FP cut off angle cock
 - (b) BP cut off angle cock
 - (c) **BP & FP cut off angle cock**
 - (d) none of the above
476. The Driver reduced the BP pressure by 1.2 kg/ cm². What is it called?
- (a) **Full-service application**
 - (b) Service application
 - (c) Emergency application
 - (d) None of the above
477. 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
478. In air brake system, brake should apply when the rate of drop of air pressure in BP is—
- (a) **0.6 kg/cm²/min in six sec**
 - (b) 0.3 kg/cm²/min in six sec
 - (c) 0.4 kg/cm²/min in six sec
 - (d) 0.1 kg/cm²/min in six sec
479. In the brake system, brake should not apply when the rate of drop of air pressure in BP is—
- (a) **0.3 kg/cm² in 60sec**
 - (b) 0.4 kg/cm² in 4sec
 - (c) 0.5kg/cm² in 30sec
 - (d) 0.8 kg/cm² in 8sec
480. The function of main valve of C3W type DV is to supply requisite amount of pressure into the brake cylinder when—
- (a) **BP pressure in reduced**

- (b) FP pressure is reduced
 - (c) CR pressure is reduced
 - (d) BP&FP are also reduced
481. The main valve in DV exhausts pressure from brake cylinder to atmosphere, is the
- (a) **BP pressure is raised**
 - (b) BP pressure is reduced
 - (c) FP pressure is reduced
 - (d) FP pressure is raised
482. The function of None-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
483. What is the expanded form of SCTR?
- (a) Single car test rubber
 - (b) Sliding car test rig
 - (c) **Single car test rig**
 - (d) None of the above
484. For releasing brakes, SAB is rotated
- (a) Clock wise
 - (b) **Towards trolley in anti clock wise**
 - (c) Towards trolley in clock wise
 - (d) Anti clock wise
485. To uncouple BP or FP air hose it is essential to—?
- (a) **Close adjacent angle cocks**
 - (b) Open adjacent angle cocks
 - (c) Close supply of air from loco
 - (d) None of the above
486. BC vent plug is used for—?
- (a) Brake application
 - (b) Air leakage to stop
 - (c) **Brake release**
 - (d) Air pressure maintenance
487. For by pass the special device required is.?

- (a) **For FP & BP connector**
 - (b) FP & BP exhauster
 - (c) FP & BP reducer
 - (d) BP & FP jointer
488. What shall be the function of check valve of C3W distributor valve?
- (a) Charging the CR
 - (b) **To prevent back flow of AR**
 - (c) Charging the BC
 - (d) none of the above
489. Cut off angle cock can be fitted with?
- (a) Brake pipe
 - (b) **Feed pipe & brake pipe both**
 - (c) Feed pipe
 - (d) None of the above
490. The control reservoir is mounted on the face of___?
- (a) Distribution valve
 - (b) **common pipe bracket**
 - (c) Brake pipe
 - (d) Auxiliary reservoir
491. The function of dirt collector is to segregate dirt particle from the air—?
- (a) After coming out of DV
 - (b) **Before going to DV**
 - (c) Both (a)& (d)
 - (d) none of the above
492. In air brake system, branch pipe of DV to BC via common pipe bracket is—
- (a) At the pipe
 - (b) **At the bottom**
 - (c) In middle
 - (d) None of the above
493. In air brake system branch pipe of DV to AR via common pipe bracket is—
- (a) At the bottom
 - (b) **In middle**
 - (c) At the top
 - (d) None of the above

494. Position of handle to open angle cock is—?
- (a) **Parallel to pipe line**
 - (b) perpendicular to pipe line
 - (c) Center to pipe line
 - (d) None of the above
495. In air brake system, sensitivity test is performed to know?
- (a) **Working sensation of DV**
 - (b) The release time to break.
 - (c) leakage in BC pressure
 - (d) Release time of BC piston stroke.
496. If there is a leakage from the drain plug of dirt collector then reason can be—?
- (a) Filter choked
 - (b) Gasket damaged
 - (c) **Hexagonal nut not fully tight ended**
 - (d) Sealing washer damaged
497. Slow charging from outlet of dirt collector can be due to—
- (a) **Filter choked**
 - (b) Gasket damaged
 - (c) Hexagonal nut not fully tightened
 - (d) Sealing washer damaged
498. In SAB, double acting means—
- (a) Provision of braking action on both the brake shoes
 - (b) Correcting the clearance on both the brake shoes
 - (c) Spindle inside the barrel moves in both direction
 - (d) **Brake shoes clearance is adjusted to its correct value both ways**
499. What is the function of SAB?
- (a) **To developed automatic adjustment**
 - (b) Regulate working of BC.
 - (c) To provided extra support to brake block
 - (d) To transfer the push of piston rod.
500. If the piston movement is sticky in the brake cylinder during both application and release then it can be due to—?
- (a) Piston return compression spring weak
 - (b) **Hexagonal nuts not equally tighten**

- (c) Piston rubber packing running dry
 - (d) Piston rubber packing cut or worn out.
501. If the handle of the cut off angle cock rotates all around and does not stop at a specific position then the reason can be –
- (a) Leaf spring has lost its compression effect
 - (b) Rubber seats are not properly placed
 - (c) “O” ring defective
 - (d) Stopper lug of cap broken or stopper plate defective**
502. What is the function of the leaf spring provided in the handle of cut off angle cock?
- (a) To avoid leakage from pipe.
 - (b) To keep operating handle in off- on position firmly.**
 - (c) To maintain properly and easily working of cut off angles cock.
 - (d) None of the above
503. If the DV is having leakage
- (a) Close the isolating cock of the AR
 - (b) Close the isolating handle of DV
 - (c) Close the isolating cock of the BP branch pipe**
 - (d) None of the above
504. Air hose pipe are connected to?
- a) Feed pipe cut off angle cock
 - b) Brake pipe cut off angle cock
 - c) Brake pipe and feed pipe cut off angle cocks**
 - d) None of the above
505. The function of return spring provided in a brake cylinder is–?
- (a) To push the spring outside the piston
 - (b) To push the piston inside the cylinder**
 - (c) To push the dead lever
 - (d) To push the control rod
506. ‘E’ dimension is measured from?
- (a) From protection tube to ‘V’ groove made on the spindle rod.**
 - (b) From control rod to anchor pin.
 - (c) From SAB barrel tube ‘V’ groove to control rod.
 - (d) None of the above
507. What is the function of SAB?

- (a) To maintain the slack between pull rod and wheel
 - (b) To maintain the slack between piston and BC
 - (c) To maintain the slack between brake block and wheel tread**
 - (d) None of the above
508. 'A' dimension is measured from—?
- (a) Control head to anchor pin
 - (b) Pull rod to anchor pin
 - (c) Pull rod to control rod head
 - (d) Control rod head to barrel face**
509. If the 'A' dimension of the SAB is reduced, then the?
- (a) Piston stock is increased
 - (b) Piston stock is reduced**
 - (c) Piston stock remain same
 - (d) None of the above
510. Warranty period of distributor valve is—
- (a) 24 months from the date of delivery or 34 months from date of fitment whichever is earlier
 - (b) 36 months from the date of delivery or 24 months from date of fitment whichever is earlier**
 - (c) 48 months from the date of delivery or 24 months from date of fitment whichever is earlier
 - (d) 36 months from the date of delivery or 12 months from date of fitment whichever is earlier.
511. Number of brake cylinder in bogie mounted air brake system are....
- (a) 8
 - (b) 6
 - (c) 2
 - (d) 4**
512. The pulling force required for alarm chain testing should not be more than
- (a) 12kg
 - (b) 10kg**
 - (c) 20kg
 - (d) 30kg
513. On application of pulling force of 6.4 kg the alarm chain should

- (a) **Work**
 - (b) Not work
 - (c) Not definite
 - (d) None of above
514. Manually operated pilot vent valve is–
- (a) **PEASD**
 - (b) PEAV
 - (c) ACP
 - (d) PEAMTD
515. What is the diameter of control pipe attached from PESAD to PEAV?
- (a) 15.0mm
 - (b) **10.0mm**
 - (c) 20.0mm
 - (d) 25.0mm
516. Passenger emergency alarm signal device are mounted on the
- (a) Under frame
 - (b) Side panel
 - (c) **End wall**
 - (d) Roof panel
517. After ACP, it is reset, then brakes are released–
- (a) DV quick release valve
 - (b) Isolating handle
 - (c) PEAV
 - (d) **PEASD**
518. PEAV& PEASD can be isolated by isolating
- (a) Isolating cock between branch pipe of BP&DV
 - (b) Isolating cock between branch pipe of FP&BP
 - (c) **Isolating cock fitted in branch pipe before PEASD**
 - (d) Isolating cock of BC
519. What is the diameter of brake cylinder of bogie mounted brake system–?
- (a) 12 Inches
 - (b) 10 Inches
 - (c) 9 Inches
 - (d) **8 Inches**

520. External slack adjuster has been eliminated in bogie mounted air brake system?
- (a) **True**
 - (b) False
 - (c) Notional
 - (d) None of the above
521. Piston stroke of BMBC coach is—
- (a) 28mm
 - (b) **32mm**
 - (c) 36mm
 - (d) 38mm
522. The average coefficient of friction of K-type composite brake block is—
- (a) 0.20
 - (b) **0.25**
 - (c) 0.30
 - (d) 0.35
523. In BMBC coach, hole adjustment of curved pull rod to be done when wheel diameter Reaches to—?
- (a) **839mm**
 - (b) 842mm
 - (c) 846mm
 - (d) None of the above
524. What is the diameter of side operated hand brake wheel for BOXN wagon?
- (a) 630 mm
 - (b) **610 mm**
 - (c) 620 mm
 - (d) 600 mm
525. Maximum pressure for door operation on BOBR wagon should not exceed—?
- (a) 8.56kg/cm²
 - (b) 8.90kg/cm²
 - (c) **9.14kg/cm²**
 - (d) 9.90kg/cm²
526. In an air brake system, the thread joints are tightened with.....?
- (a) Cello tape
 - (b) **Teflon tape**

- (c) paper tape
- (d) None of the above

527. Minimum permissible dimension 'e' in SAB on goods stock, while leaving the yard is—?

- (a) 555 mm**
- (b) 575 mm
- (c) 565 mm
- (d) 580 mm

528. What is the colour code of the distributor valve of air brake goods stock?

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

529. Control rod diameter of an air brake wagon is—

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

530. Piston stroke of BOXN wagon in empty condition is—

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

531. Piston stroke of BOXN wagon in loaded condition is—

- (a) 140±15mm
- (b) 130±10mm**
- (c) 120±15mm
- (d) 125±15mm

532. Piston stroke in empty condition of BOBYN wagon is—

- (a) 90±10mm
- (b) 100±5mm
- (c) 100±10mm**
- (d) 90±10/5mm

533. Piston stroke in loaded condition of BOBYN wagon is—

- (a) 135±5m
- (b) 135±10mm
- (c) 135±20mm
- (d) 110±10mm**

534. What is the capacity of control reservoir in goods train?

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

535. The colour of brake pipe in twin pipe brake system is–

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

536. What should be the brake pipe pressure in engine?

- (a) 4.8kg /cm²
- (b) 4.7kg/cm²
- (c) 5.0kg/cm²**
- (d) 6.0kg/cm²

537. The BP pressure in brake Van of 58- BOXN load should not be less than–

- (a) 4.8kg /cm²
- (b) 3.7kg/cm²
- (c) 4.7kg/cm²**
- (d) 5.8kg/cm²

538. When we release KE type DV manually, the air pressure is released from–

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

539. If Empty Loaded Device handle is kept on loaded position of empty wagon, the Result will be –

- (a) Poor Brake Power
- (b) Brake binding**
- (c) Both of the above

(d) None of the above

540. Number of brake blocks in one BOXN wagon is.....

(a) 4

(b) 8

(c) 12

(d) 16

541. 'A' dimension in BOXN wagon is –

(a) 70±2/0mm

(b) 172±3mm

(c) 175±4mm

(d) 175±1mm

542. D.V is directly attached with–

(a) Brake cylinder

(b) Brake pipe

(c) AR

(d) CPB (common pipe bracket)

543. The diameter of air brake cylinder BOXN wagon is –

(a) 300mm

(b) 355mm

(c) 360mm

(d) 315mm

544. The diameter of air brake cylinder in BVZC (wagon) is–

(a) 300mm

(b) 295mm

(c) 305mm

(d) 315mm

545. The capacity of Auxiliary Reservoir in an air brake wagon except Brake Van is–

(a) 200Litre

(b) 100Litre

(c) 300Litre

(d) 150Litre

546. In single pipe system the time taken in releasing of the wagon brake is

(a) 60sec

(b) 120sec

(c) 210sec

(d) 90sec

547. Distance between the control rod head and the barrel of SAB is named as-

(a) 'E' dimension

(b) 'C' dimension

(c) 'A' dimension

(d) 'D' dimension

548. In twin pipe system the Auxiliary Reservoir pressure should be—

(a) 6.0kg/cm²

(b) 4.8kg/cm²

(c) 5.0kg/cm²

(d) 6.5kg/cm²

549. The brake power of CC rake from nodal point is—

(a) 90%

(b) 100%

(c) 85%

(d) 75%

550. Brake power certificate issued for premium end –to-end rake will be valid for –

(a) 7±4days

(b) 10±2days

(c) 12±3days

(d) one month

551. The of air pressure in control reservoir of twin pipe system is—

(a) 3.8kg/cm²

(b) 6.0kg/cm²

(c) 5.0kg/cm²

(d) 4.8kg/cm²

552. What is the function of DC (Dirt collector)?

(a) Collect dirt

(b) collect air

(c) Clean air

(d) Clean CR

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

(a) 0.8kg/cm²

(b) 1.0kg/cm²

(c) 1.2kg/cm²

(d) 1.5kg/cm²

554. Diameter of brake pipe and feed pipe in a goods train is ...

(a) 28mm

(b) 34mm

(c) 32mm

(d) 36mm

555. How many cutoff angle cock are provided in a vehicle in twin pipe system–

(a) Two

(b) Four

(c) Six

(d) None

556. While isolating DV, the position of the handle in relation to rail line shall be?

(a) Horizontal

(b) vertical

(c) Any position

(d) None of the above

557. If brake block is not releasing,is removed to release the brake-?

(a) Anchor link pin

(b) center pivot pin

(c) pull rod pin

(d) equalizing pin

558. During Brake application, air flows from-?

(a) AR to BC

(b) BP to AR

(c) BP to BC

(d) CR to BC

559. The en-route brake power percentage of CC goods train should be?

(a) 85%

(b) 75%

(c) 95%

(d) 90%

560. The en-route brake power percentage of End to End goods train should be?

(a) 85%

(b) 75%

(c) 95%

(d) 90%

561. The en-route brake power percentage of Premium goods train should be ?

(a) 85%

(b) 75%

(c) 95%

(d) Not specified

562. what is the piston stroke of BVZC wagon?

(a) 50mm±10mm

(b) 70mm±10mm

(c) 32mm±10mm

(d) 90mm±10mm

563. what is the piston stroke of BVZI wagon?

(a) 50mm±10mm

(b) 70mm±10mm

(c) 32mm±10mm

(d) 90mm±10mm

564. What is the piston stroke of BOBR/BOBRN wagon in empty?

(a) 70±10mm

(b) 75±10mm

(c) 80±10mm

(d) 100±10mm

565. 'A' dimension of the BOBRN wagon is?

(a) 29+2/-0mm

(b) 27+2/-0mm

(c) 33±2mm

(d) 25+⁻⁵₂mm

566. What is colour of BPC of air brake CC?

(a) Red

(b) Pink

(c) Green

(d) Yellow

567. What should be the pressure in feed pipe?

(a) 3.8kg/cm²

(b) 5.0kg/cm²

(c) 6.0kg/cm²

(d) None of the above

568. Control rod of SAB when rotated for one round, control rod head moves by a distance of—?

(a) 6.0mm

(b) 4.0mm

(c) 2.0mm

(d) 1.0mm

569. The type of joint for FP&BP pipe in goods stock is—?

(a) Grip seal

(b) Flange

(c) Thread coupling

(d) knuckle

570. The allowed leakage rate in BP or FP in air brake system for goods stock is—

(a) 04kg/cm²/min

(b) 0.25kg/cm²/min

(c) 0.3kg/cm²/min

d) 0.1 kg/cm²/min

571. With what pressure of AR twin pipe system works?

(a) BP pressure only

(b) FP pressure only

(c) BP & FP pressure

(d) BC pressure

572. Single pipe system works on.....

a) BP pressure

b) FP pressure

c) BP&FP pressure

d) None of the above

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. What do you mean by SWTR?

- a) Single wagon test rubber
- b) single wagon test rig**
- c) Sliding wagon testing
- d) None of the above

575. SAB is fitted on.....

- a) End pull rod
- b) Main pull rod**
- c) Control rod
- d) Dead equalizing lever

576. Auxiliary reservoir assists in—

- a) DV charging
- b) Charging of BP
- c) sending air to BC**
- d) charging of CR

577. When a defect is noticed in brake pipe in twin pipe system, the train can be worked as single pipe system?

- a) By bypassing BP of particular vehicle**
- b) Cannot be worked
- c) Can be worked without change
- d) None of the above

578. Full from of AR is—?

- a) Accident of reservoir
- b) Axle ring
- c) Auxiliary reservoir**
- d) None of the above

579. Full from of BC is—?

- (a) Brake control
- (b) Beside coach
- (c) Brake cylinder**
- (d) None of the above

580. What shall be the function of check valve of C3W type distributor valve?
- a) Charging the AR
 - b) Charging the CR
 - c) Charging the BC
 - d) None of the above**
581. BC vent plug is used for -
- a) Brake application
 - b) Brake release**
 - c) Air leakage to stop
 - d) Air pressure maintenance
582. The ELB device indicator plate shows--
- a) Yellow empty, black loaded**
 - b) Blue empty, black loaded
 - c) Whit empty, black loaded
 - d) black empty, blue loaded
583. The first step in releasing brake binding in conventional Air brake system is to--?
- a) Open vent plug of BC
 - b) Rotate SAB
 - c) Take out pin of SAB
 - d) Isolate DV & release manually**
584. The type of dirt collector, used in wagon is--?
- a) 2-way
 - b) 3-way**
 - c) Branch pipe of BP to FP
 - d) None of the above
585. The trouble shooting form twin pipe system in case of broken AR is--?
- a) Isolate DV and release brake
 - b) Isolate DV, AR & release brake**
 - c) Release BC & open vent plug BC
 - d) By-pass AR
586. After isolating DV, handle should be?
- a) Tightened with thread
 - b) Kept horizontal and tightened with wire**
 - c) Tightened with wire

d) Opened

587. The function of double release valve of the DV is –?

a) To release the brake automatically

b) To release the BC pressure

c) To release the brake manually

d) To release brake pipe pressure on AR chamber

588. 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

589. What is the minimum distance being maintained between adjacent two tracks for intensive examination?

a) At least 3 meters

b) At least 3.5 meters

c) At least 4.0 meters

d) At least 2.0 m

590. As per RPC -4, whenever the lie-over is more than hours at the platform or the rake is stabled in yard, the rake should be locked and positive security should be provided?

a) 2hours

b) 4 hours

c) 6hours

d) 8 hours

591. For rakes maintained by 'A' category CC bases, BPC is valid for?

a) 4500 kms or 15 days

b) 6000 Kms or 20 days

c) 7500 Kms or 35 days

d) 6000 Kms or 15 days

592. Match colour of BPC issued with the stock?

Colour

Stock

A. Pink

1. Air brake stock

B. Light Green

2. Vacuum Brake

C. Yellow

3. Closed circuit Rake

a) A-1, B-2, C-3

b) A-3, B-1, C-2

c) A-3, B-2, C-1

d) A-2, B-1, C-3

593. For closed circuit air brake rake, Rake integrity, as listed in the BPC be are allowed to be replaced by good examined wagon in the entire run between two PMEs?

a) 4 wagons

b) 6 wagons

c) 3 wagons

d) 2 wagons

594. What are the colors recommended for intensive brake power certificate for end to end Running air brake (Goods stock)?

(a) Green

(b) Pink

(c) Red

(d) Blue

595. What are the colors recommended for brake power certificate for close circuit airbrake rake (Goods stock)?

(a) Yellow

(b) Pink

(c) Green

(d) white

596. Which of the following are the advantages associated with revised maintenance pattern for coaching trains as per Railway Board Policy circular no.4?

a) Attention as per the requirement of train service and passenger requirements.

b) A step towards standardization of rake to reduce the requirement of Rakes and coaches

c) More utilization of existing coaches

d) All of the above

597. Which of the following is not the advantage of revised maintenance pattern for coaching trains as per Railway Board policy no.4?

(a) Increase in productivity after avoiding frequent attention of trains covering less km

(b) Emphasis shifted from staff inputs to infrastructural inputs

(c) Customer based rake formation

(d) A step towards standardization of rake to reduce the requirement of Rakes and coaches

598. Which of the following is not the part of the minimum infrastructure to be provided at the platform from where trains returned without secondary maintenance?

- i. One storage room for essential safety and passenger amenity item
- ii. Road transportation facility for ferrying material from the depot.
- iii. Mobile high-pressure cleaning machines in adequate numbers
- iv. Mobile phones for easy communication

(a) (I) & (IV) (b) Only (III) **(c) Only (IV)** (d) Only (II)

599. Which of the following are the minimum infrastructure facilities to be provided at the platforms from where trains are returned without secondary maintenance?

- a) Water connection at both the ends of the platform for quick watering and cleaning with high pressure Jet cleaning machine.
- b) Washable apron on the platform lines with covered drains to facilitate movement of maintenance staff
- c) Flood light at the platform ends for rolling examination at night and 110V inspection lights along the side of the track for night examination of under gear.

d) All of the above.

600. As per policy No-4 (revised) secondary examination of mail/express has been skipped on round trip Up to – (ICF coaches)

- (a) 2000km
- (b) 1500km
- (c) 2500km

(d) 3500km

601. As per policy No-4 secondary examination of mail/express has been skipped on round trip Up to – (LHB coaches)?

- a) 4000km**
- b) 1500km
- c) 2500km
- d) 3500km

602. 'A' category depot will issue BPC of CC Rake valid up to km–?

a) 7500km

b) 7000km

c) 6000km

d) 6500km

603. 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) Next TXR point

604. In air brakes 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

605. In air brake stock, BPC become 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

606. At the originating point, minimum brake power of premium end-to-end rake is-?

(a) 85%

(b) 95%

(c) 90%

(d) 98%

607. The colour of brake power certificate for premium end-to-end rake is –?

a) Green

b) White

c) Pink

d) Yellow

608. The BPC of ballast train is valid for?

a) 3days

- b) 7days
- c) 15days
- d) 30days**

609. The ride index for LHB coach is?

- (a) 2.50-2.75.**
- (b) 2.75-3.00.
- (c) 3.00-3.25.
- (d) 3.25-3.5

610. Which bogies are provided for higher passenger ride index comfort?

- a) ICF (all coil)
- (b) IRS type
- (c) BEML type
- (d) FIAT – SIG type**

611. Maximum ride index of LHB coach is–

- (a) 2.75**
- (b) 3.25
- (c) 3.65
- (d) 3.45

612. What is the purpose of corrugated trough floor?

- a) To provide telescopic features in the coach
- b) Offers considerable resistance to longitudinal crushing loads
- c) To work as cushion to smoothen the shocks during impact between the vehicles
- d) All of above**

613. When a locomotive or a coach collides with another coach and enters forcibly, piercing the end wall. What type of accident is it?

- a) Collapsible
- b) Telescopic**
- c) Normal
- d) Typical

614. After Indo-German modification in coaching stock, what type of bushes are used for brake gear components?

- a) Nylon-55
- b) Steel-46

c) Nylon-66

d) Copper coated – 55

615. After Indo- German modification, the crown clearance bolt is fitted with–

a) Steel bush

b) Rubber washer

c) Nylon bush

d) Rubber packing

616. Truss bar hanger length is increased from–

a) 205 to 235 mm

b) 205 to 240 mm

c) 205 to 255 mm

d) None of the above

617. What is the modification of equalizing stay rod?

a) fitted 16 tons in all coaches

b) fitted 18 tons in all coaches

c) Fitted 14 tons in all coaches

d) none of the above

618. Which is not true about Fiat bogie design?

a) It has Y-shaped bogie

b) It has rigid axel guidance system

c) Bogie weight is 6.5 tons

d) It is provided with anti-skid features

619. While lowering the container, lock automatically operates the moment a force of kg is exerted by the container.?

a) 700 kg

b) 600 kg

c) 800 kg

d) 1000 kg

620. While lifting the container, lock automatically operates the moment a force of kg is exerted by the container.

a) 700 kg

b) 600 kg

c) 800 kg

d) 1000 kg

621. Which brake system is used in LHB coaches?

- a) **Disc-brake**
- b) Bogie mounted
- c) Conventional
- d) Vacuum brake

622. Which device have been fitted on BLC wagons to function in lieu of ELB?

- a) **Automatic load sensing Device**
- b) Automatic load box Device
- c) Automatic load sensor
- d) None of these

623. What is the operational speed of BLC wagon rake?

- (a) **100 Kmph**
- (b) 110 kmph
- (c) 75 kmph
- (d) 120 Kmph

624. One modular unit of BLC rake comprises how many CAR 'B' wagons?

- (a) Five
- (b) Two
- (c) **Three**
- (d) One

625. As and when required to detach one wagon from the BLC rake, how many wagons to be detached in total?

- (a) 2
- (b) 3
- (c) **5**
- (d) 1

626. What are the advantages of faired bogie over ICF bogie?

- a) Lower wheel-base, which improves its ability to negotiate curves
- b) Axle mounted disc brake system reduces to wheel thread wear, requires lesser maintenance and is suitable for higher braking force
- c) Cartridge Tapered Roller bearing requires lesser maintenance attention
- d) **All of the above**

627. What are the advantages of faired bogie over ICF bogie?

- a) Primary suspension of nested coil spring with hydraulic damper and control rod is more reliable and maintenance free as compared to dashpot arrangements.
- b) Better noise control due to use application of a new materials such as a wooden Board Sandwiched with cork layer, use rubber pad below floorboard, rubber paint spray inside the shall etc.
- c) Lower corrosion due to extensive use of stain less steel
- d) All of the above**

628. Which of the following is not the advantages of bogie over ICF bogie?

- a) Poor riding index**
- b) Provision of anti-roll bar to restrict rolling of coach body on curves.
- c) Y- damper to control yaw-motion (body motion in vertical axis)
- d) None of the above

629. Which of the following are the advantages of disc brake system?

- a) Higher speed potential of the bogie
- b) Almost constant co-efficient of friction over the whole speed range
- c) Reduced frequency of the wheel turning
- d) All of the above**

630. What are the measures taken in LHB coaches for safety of travelling public?

- a) Use of fire-retardant material for coach furnishings
- b) Provision of emergency windows
- c) The coach is provided with vertically interlocked central buffer couplers that would not open even if there were a derailment
- d) All of the above**

631. CBC Coupler are used in.

- a) All conventional ICF design coaches
- b) IRS coaches
- c) LHB design coaches**
- d) BEML coaches

632. Which of profile is used in IR coaches?

- (a) WWP**
- (b) WWM
- (c) WWT
- (d) WWN

633. Why is inbuilt slack adjuster of BMBC called single acting?
- a) **Because it takes up the slack in return stroke only**
 - b) Because it takes up the slack in forward stroke only
 - c) Both a & b
 - d) None of the above
634. Condemning limit of BLC wheel set is–
- (a) 900mm
 - (b) 800mm
 - (c) 670mm
 - (d) 780mm**
635. Maximum height of side frame from Rail level of container bogie type LCCF20(c) trolley is
- (a) 851 mm
 - (b) 715 mm
 - (c) 932 mm
 - (d) 786 mm**
636. In BLC wagon, width over sole bar at center line wagon is-
- a) 200 mm
 - b) 2100 mm**
 - c) 2150 mm
 - d) 2180 mm
637. In place of empty load box what device is used in BLC wagon?
- a) BSD
 - b) LSD**
 - c) SDF
 - d) SAB
638. 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) 110 km/h
639. What is the material specification of BLC wagon trolley?
- a) Cast steel**
 - b) Low cast steel
 - c) steel

d) Micro steel

640. At the time of load distribution what percentage of load is coming on the center pivot?

(a) 10%

(b) 15%

(c) 20%

(d) 25%

641. What shall be maximum length of container platform in BLC wagon?

(a) 30 feet

(b) 28 feet

(c) 29 feet

(d) 32 feet

642. The standard height of platform for BLC wagon from Rail level is—

(a) 1010 mm

(b) 1015 mm

(c) 1009 mm

(d) 1100 mm

643. The axle load capacity of BLC wagon is—

(a) 20.10 ton.

(b) 20.32 ton.

(c) 21.10 ton.

d) 23.10 ton.

644. 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.

645. 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.

646. In BLC wagon, height of slackness drawbar system from Rail level is —?

(a) 890 mm

(b) 848 mm

(c) 845 mm

(d) 910 mm

647. How many automatic twist locks used in BLC wagons?

(a) 6

(b) 8

(c) 10

(d) 12

648. . Distance between bogie centers of BLC wagon is–

(a) 9678 mm

(b) 9687 mm

(c) 9765 mm

(d) 9675 mm

649. Rake carrying capacity of the BLC is–

(a) 40 wagons

(b) **45 wagons**

(c) 40 wagons

(d) 48 wagons

650. Which type of side bearer arrangements is used in BLC trolley?

(a) Elastomeric

(b) constant contact type

(c) Spring loaded side bearer

(d) None of the above

651. Which type trolley is used in BLC wagon?

(a) UIC trolley

(b) Cast steel type of bogie LCCF20

(c) IRS trolley

(d) Diamond frame trolley

652. For auto metric locking & for lifting of auto metric twist lock how much force is Kg required, respectively?

(a) 600 & 1000 kg

(b) 800 & 1200 kg

(c) 1000 & 500 kg

(d) 500 & 1350 kg

653. What type of roller bearing is used in BLC wagon?
- (a) Cartridge type
 - (b) Tapered two-row cartridge roller bearing**
 - (c) Spherical type
 - (d) plain bearing
654. What is the loading capacity of containers in BLC wagon?
- (a) Two 20' or one 40'**
 - (b) Two 22' or one 45'
 - (c) Two 15' or two 20'
 - (d) Two 20' or one 45'
655. Name the type of coupling used in BLC wagon?
- (a) CBC & SLD**
 - (b) HTCBC
 - (c) Screw coupling
 - (d) Slackness draw bars (SLD)
656. Pay load of BTPN tank wagon is–
- (a) 58.88 tons
 - (b) 54.28 tons**
 - (c) 55.80 tons
 - (d) 52.3 tons
657. Axle load of BTPN tank wagon is–
- (a) 20.32 tons**
 - (b) 22.35 tons
 - (c) 21.35 tons
 - (d) 25.22 tons

BCNHL & MBS

658. Type of steel used for construction of BCNHL wagon
- a) Stainless Steel**
 - b) Mild Steel
 - c) Carton Steel
 - d) Carbon Steel
659. Tare weight of BCNHL wagon
- a) 25.0 t
 - b) 20.8 t**

c) 22.8 t

d) 24.8 t

660. Carrying capacity of BCNHL wagon

a) 78.8 t

b) 66.2 t

c) 70.8 t

d) 56.7 t

661. Axle load of BCNHL wagon

a) 22.9 t

b) 20.3 t

c) 24 t

d) 20 t

662. Width of BCNHL wagon

a) 3200 mm

b) 3450 mm

c) 3250 mm

d) 3500 mm

663. Overall height of BCNHL wagon

a) 4305 mm

b) 4017 mm

c) 4205 mm

d) 4027 mm

664. No. of BCNHL wagons that can be accommodated in one rake

a) 42

b) 44

c) 58

d) 61

665. Minimum length of loop line in stations as per G & SR

a) 536 M

b) 650 M

c) 586 M

d) 686 M

666. Side body thickness of BCNHL wagon

a) 3.15 mm

b) 2.5 mm

c) 3.5 mm

d) 1.15 mm

667. Floor plate thickness of BCNHL wagon

a) 5 mm

b) 3.5 mm

c) 4 mm

d) 2 mm

668. In place of riveting is used in BCNHL wagon

a) Welding

b) Huck bolting

c) Bolting

d) None of the above

669. Size of Brake cylinder used in BCNHL wagon

a) 355 mm

b) 208 mm

c) 300 mm

d) 286 mm

670. Type of SAB used in BCNHL wagon

a) IRSA-750

b) IRSA-600

c) IRSA-400

d) IRSA-500

671. SAB-e dimension of IRSA-750

a) 555 to 575 mm

b) 560 ± 10 mm

c) 560 ± 25 mm

d) 560 ± 5 mm

672. Type of Brake blocks used in BCNHL wagon

a) L-type

b) K-type

c) Both L& K

d) Cast Iron

673. Type of center pivot provided in BCNHL wagon

- a) **Flat pivot**
- b) Spherical pivot
- c) Diamond pivot
- d) None of the above

674. Which of the following model of CBC is used in BCNHL wagon?

- a) E-type
- b) F-type
- c) **E/F-type**
- d) H- type

675. Alphabetical code available beside CBC of BCNHL wagon indicates

- a) **Make of CBC & Draft gear**
- b) Make of CBC only
- c) Make of Draft gear only
- d) None of the above

676. Warranty period for imported CBC/Draft gear used in BCNHL wagon

- a) 60 months from date of delivery and fitment
- b) 72 months from date of delivery
- c) 60 months from date of fitment
- d) **both B & C**

677. Type of electrode used for welding repairs on BCNHL wagon (SS to SS)

- a) Class-A1
- b) Class-B2
- c) Class-M1
- d) **Class-M2**

678. Type of electrode used for welding repairs on BCNHL wagon (SS to MS)

- a) Class-A1
- b) Class-B1
- c) Class-M1
- d) **Class-D**

679. Type of electrode used for welding of MS to MS?

- a) Class-A1
- b) Class-B2
- c) **Class-C**
- d) Class-D1 1306.

680. What is MBS in connection with wagon?

- a) Model Brake system
- b) Modified Brake system**
- c) Mechanical Brake system
- d) Modern Brake system

681. In MBS brake cylinders used are called?

- a) Bogie Mounted brake cylinder**
- b) Under frame mounted brake cylinder
- c) Both of the above
- d) None of the above

682. Size of BMBC in wagon?

- a) 10"**
- b) 12"
- c) 14"
- d) 8"

683. Manual load empty change over lever not available in MBS?

- a) False
- b) True**
- c) Not specified
- d) None of the above

684. In place of load empty box is provided in MBS?

- a) LSD
- b) LSV
- c) APM**
- d) APV

685. APM stands for?

- a) Automatic Pipe Measure
- b) Automatic Pressure Measure
- c) Auto Pressure Mechanism
- d) Automatic Pressure Maintainer**

686. Pressure allowed in to BC in empty condition of MBS?

- a) $1.1 \pm 0.1 \text{ Kg/Cm}^2$
- b) $2.2 \pm 0.25 \text{ Kg/Cm}^2$**
- c) $3.8 \pm 0.1 \text{ Kg/Cm}^2$

- d) $3.8 \pm 0.25 \text{ Kg/Cm}^2$
687. Pressure allowed in to BC in loaded condition of MBS?
- a) $1.1 \pm 0.1 \text{ Kg/Cm}^2$
- b) $2.2 \pm 0.25 \text{ Kg/Cm}^2$
- c) $3.8 \pm 0.1 \text{ Kg/Cm}^2$**
- d) $3.8 \pm 0.25 \text{ Kg/Cm}^2$
688. Type of brake blocks used in MBS?
- a) L-type
- b) K-type**
- c) Both L& K
- d) Cast Iron
689. Brake application and release times of wagon fitted with MBS are different from conventional air brake system?
- a) True
- b) False**
- c) Can't say
- d) Not specified
690. Piston stroke of BMBS?
- a) $44 \pm 10 \text{ mm approx.}$
- b) $54 \pm 10 \text{ mm approx.}$**
- c) $64 \pm 10 \text{ mm approx.}$
- d) $74 \pm 10 \text{ mm approx.}$
691. APM is fitted on?
- a) CASNUB trolley
- b) Under frame of body**
- c) End Body
- d) Near the wheels
692. Type of slack adjusting available in MBS?
- a) Single acting
- b) Double acting**
- c) Both the above
- d) None of the above

693. What is the full form of LHB?
- (a) Lower heavy Bogie
 - (b) Link Hofmann Busch**
 - (c) Low height Bogie
 - (d) None of these
694. What is the length over body of LHB coaches?
- a) 23570 mm
 - b) 23545 mm
 - c) 23540 mm**
 - d) 23565 mm
695. what is the maximum width over body of LHB coaches.?
- (a) 3260 mm
 - (b) 3240 mm**
 - (c) 3456 mm
 - (d) 2356 mm
696. 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
697. 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
698. 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
699. What is the higher speed potential of LHB coaches?
- a) 160 Kmph upgradeable to 180Kmph
 - b) 180 Kmph upgradeable to 200Kmph
 - c) 160 Kmph upgradeable to 200Kmph**

d) 200 Kmph upgradeable to 220 Kmph

700. What is the wheel gauge of LHB wheel?

(a) 1676 mm

(b) **1600+2/-1 mm**

(c) 1610 mm

(d) 1676 \pm 1mm

701. What is the new wheel diameter of LHB wheel?

a) 910 mm

b) 915 mm

c) 912 mm

d) 725 mm

702. What is the condemning limit of LHB wheel diameter?

a) 813 mm

b) 839 mm

c) 845 mm

d) 854 mm

703. How many brake discs on one wheel?

a) One

b) Two

c) Three

d) Four

704. 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

705. What is the thickness of brake disc.?

a) 100 mm

b) 110 mm

c) 105 mm

d) 108 mm

706. What is the diameter of brake disc?

a) 650 mm

b) 630 mm

c) 640 mm

d) 645 mm

707.

708. What is the maximum temperature limit for TIMKEMCTBU?

a) 90 °C

b) 80°C

c) 85°C

d) 87°C

709. How many types of shock absorbers are used in LHB Coaches?

a) 6

b) 5

c) 4

d) 3

710. How many shock absorbers/dampers are used in LHB Coaches?

a) 10 no's

b) 8 no's

c) 18 no's

d) 12 no's

711. What is the name of shock absorbers/dampers connected between bogie and car body?

a) Primary

b) Secondary

c) Yaw

d) None of these.

712. 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

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

a) 23590 mm

b) 24000 mm

c) 24095 mm

d) 24225 mm

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

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

715. Approx. "Riding Index" of LHB Coach–

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

716. Distance between inner wheels of LHB -

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

717. Distance between centre pivots -

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

718. Maximum permissible buffer drops under gross load and worn condition is

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

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

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

720. D2 Maintenance Schedule of LHB Coach is done -

- (a) 30 days ± 1days
- (b) 30 days±3 days**
- (c) 30 days ± 5days

(d) 30 days \pm 7days

721. D3 Maintenance Schedule i.e. of LHB Coach is done

(a) 150 days \pm 1days

(b) 120 days \pm 3days

(c) 180 days \pm 15days

(d) 90 days \pm 7days

722. 'SS-I' (Shop Schedule-1) of LHB coach is done

(a) 1 year

(b) 2years

(c) 1.5 years / 6 lakes Kms earned whichever is earlier

(d) 3 years/ 6 lakes Kms earned whichever is earlier

723. 'SS-II' of LHB coach is done

a) 1 year

b) 2years

c) 1.5 year/ 6 lakes Kms earned whichever is earlier

d) 3 years/ 12 lakes Kms earned whichever is earlier

724. On KM basis 'SS- I' of LHB coach is done

a) 5 lakhs

b) 6 lakhs

c) 9 lakhs

d) 12 lakhs

725. On KM basis 'SS -II' of LHB coach is done-?

a) 5 lakhs

b) 6 lakhs

c) 12 lakhs

d) 24 lakhs

726. 'SS -III' of LHB coaches is done-?

a) 5 years

b) 4 years

c) 3 years

d) 6 years

727. On KM basis 'SS - III' of LHB coach is done-?

a) 5 lakhs

b) 6 lakhs

c) 24 lakhs

d) 12 lakhs

728. 'IOH' of LHB coaches is done -

a) 18 months

b) 12 months

c) 9 months

d) 14 months

729. Codal life of LHB coaches is-?

a) 30 year

b) 25 years

c) 15 years

d) 35 years

730. Brake power of air brake for Rajdhani coaches from out station is

a) 90%

b) 100%

c) 85%

d) 95%

731. Length of car body of LHB coach is-?

a) 24000 mm

b) 23540 mm

c) 2400 mm

d) 24430 mm

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

a) Vertical slide protector

b) Restrictor

c) Protecting device.

d) None of these

733. What is the wheel base of LHB bogie?

a) 2440 mm

b) 2696 mm

c) 2560 mm

d) 2570 mm

LHB
Coach/Shell

734. Side wall of LHB Coaches are manufactured from -
- a) Austenitic steel (SS304M)
 - b) IRSM-41
 - c) Ferritic steel (SS-409M)**
 - d) IRSM-44
735. Roof sheet of LHB Coaches are manufactured from
- a) Austenitic steel (SS304)**
 - b) IRSM-41
 - c) Ferritic steel (SS-409)
 - d) IRSM-44
736. End wall of LHB Coaches are manufactured from –
- (a) Austenitic steel (SS304M)
 - (b) IRSM-41
 - (c) Ferritic steel (SS-409M)**
 - (d) IRSM-44
737. Trough floor of LHB Coaches are manufactured from
- (a) Austenitic steel (SS304)**
 - (b) IRSM-41
 - (c) Ferritic steel (SS-409)
 - (d) IRSM-44
738. Cross member so funder frame of LHB Coaches are manufactured from
- (a) Austenitic steel (SS 304)
 - (b) IRSM-41**
 - (c) Ferritic steel (SS-409)
 - (d) IRSM-44
739. Thickness of Roof sheets of LHB coaches are
- (a) 2 mm & 2.75 mm
 - (b) 1.25 mm & 1.7 mm**
 - (c) 3 mm & 3.25 mm
 - (d) 2.75 mm & 2.5 mm
740. Thickness of Corrugated sheets of LHB coaches are
- a) 2 mm
 - b) 3 mm
 - c) 1.25 mm**

- d) 2.5 mm
741. Thickness of side wall sheets of LHB coaches are
- a) **2 mm**
- b) 3 mm
- c) 1.25 mm
- d) 2.5 mm
742. Sole bar of LHB Coaches are manufactured from
- (a) Austenitic steel (SS 304)
- (b) **IRSM-41**
- (c) Ferritic steel (SS-409)
- (d) IRSM-44
743. Thickness of sole bar of LHB coaches is
- a) 2 mm
- b) 5 mm
- c) 4 mm
- d) **6 mm**
744. Thickness of Roof flange of LHB coaches is -
- a) 2 mm
- b) 5 mm
- c) **4 mm**
- d) 6 mm
745. Material of yaw damper bracket of LHB Coaches is
- (a) **Cast steel**
- (b) IRSM-41
- (c) Ferritic steel (SS-409)
- (d) IRSM-44
746. Yaw damper is fitted on
- (a) Sole bar
- (b) Bogie
- (c) Under frame
- (d) **Between under frame and bogie frame**
747. The Fire Extinguisher used in AC LHB coaches is –
- a) Foam type
- b) **DCP Type**

- c) CO2 type
- d) None of these

748. Fire Extinguisher should be refilled

- a) Every month
- b) Every 3months
- c) After 1year**
- d) One very trip

BRAKE SYSTEM

749. Torque value of brake caliper mounting bolt is

- a) 200 NM
- b) 170 NM**
- c) 150 NM
- d) 190 NM

750. 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

751. What is the capacity of AR tank?

- a) 200 liters**
- b) 75 liters
- c) 125 liters
- d) 300 liters

752. 125 liters AR tank used for -

- a) Toilet purpose
- b) Braking purpose**
- c) Stand by
- d) None of these.

753. 75 liters AR tank used for

- a) Toilet purpose**
- b) Braking purpose
- c) Standby
- d) None of these.

754. What is the capacity of CR tank?

a) 5.0 Liters

b) 6.0 Liters

c) 9.0 Liters

d) 8.0 Liters

755. Bore size of main BP and FP pipe is

a) 45 mm

b) 25 mm

c) 20 mm

d) 18 mm

756. Diameter of BC line branch pipe is-?

a) 25 mm

b) 20 mm

c) 18 mm

d) 16 mm

757. Diameter of brake indicator pipe is-?

a) 18 mm

b) 10 mm

c) 15 mm

d) 20 mm

758. When brake indicator shows 'Red', the brake will be-?

a) Released

b) Applied

c) Indicator defective

d) none

759. . When brake indicator shows 'Green' the brake will be- ?

a) Released

b) Applied

c) Indicator defective

d) none

760. Brake accelerator is a- ?

a) Brake actuating device

b) Emergency brake application device.

c) Both a & b

d) None of these

761. Principle application of brake accelerator is- ?

- a) Emergency braking in each coach of rake**
- b) Partial braking in each coach of rake
- c) Similar braking in each coach of rake
- d) None of these

762. Brake accelerator actuates during

- (a) Every service application
- (b) Emergency brake application**
- (c) Both a & b
- (d) None of these.

763. Brake accelerator is connected to

- a) FP pipe
- b) BP pipe**
- c) BC pipe
- d) both a & b

764. What is the capacity of pressure tank provided for parking brake?

- a) 9 Ltr
- b) 5 Ltr.
- c) 6 Ltr.**
- d) 8 Ltr.

765. What is the name of cable provided for hand brake?

- a) Hand brake cable
- b) Flex ball cable**
- c) Both a & b
- d) None of these

766. How many flex ball cables provided on generator car.

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

767. Flex ball cable directly connected to

- a) Brake caliper
- b) Brake cylinder**
- c) Both

- d) None of these
768. 'ASD' stands for
- a) Anti Sleep device
 - b) Anti slip device**
 - c) Both a & b
 - d) None of these
769. 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
770. 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
771. The applications of Dump valve is
- a) Only braking
 - b) Only De-braking
 - c) Both braking and de-braking.**
 - d) None of these
772. Electricity required for Dump valve operative
- a) 110 volt AC
 - b) 110 volt DC**
 - c) 24Volt DC
 - d) 230 Volt AC
773. Anti skid system is a
- a) Electronic system
 - b) Pneumatic system
 - c) Electro Pneumatic system**
 - d) None of the above
774. 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
775. What is the limit of air gap between sensor and phonic wheel ?
- a) 1.0 -5.0 mm
 - b) 1.0 - 10.0mm
 - c) 0.9 –1.4mm**
 - d) 1.0 – 2.5mm
776. What is the purpose of pressure switch?
- a) To actuate anti skid system**
 - b) To provide electric supply to brake accelerator
 - c) To provide electric supply to dump valve
 - d) None of these
777. Pressure switch actuate at the train pressure reaches
- a) 0 - 0.5 bars
 - b) 0.5 - 1 bars
 - c) 1.3-1.8 bars**
 - d) 1.5 – 3.0 bars
778. In KNORR BREMSE system pressure switch connected to
- a)FP line**
 - b) BP line
 - c)BC line
 - d) both a &b
779. In SAB WABCO system pressure switch connected to
- a)BP line
 - b) FP line**
 - c) BC line
 - d) none of these
780. How many brake cylinders are used in LHB coache?
- a) 6 nos
 - b) 4 nos
 - c) 8 nos**
 - d) 16 nos
781. 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

782. The '99' code shown on micro processor means

a) Whole system working perfectly.

b) Some defect in speed sensor

c) Either a or b

d) None of these.

783. 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

784. 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

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

(a) 0.4kg/cm²

(b) 1.0kg/cm²

(c) Almost 3kg/cm²

(d) none of these

786. Size of choke provided in emergency brake valve is

a) 0.4mm

b) 2.0mm

c) 3.0mm

d) No choke

787. 'PEASD' provided in LHB can be reset ?

a) From under gear of coach only

b) From any whereof inside coach

c) From the point where chain pulled

d) Both a & b

788. How can identified the actual position of chain pulled. ?

- a) Pull box will in up position & hissing sound heard.
 - b) Pull box will in down position & hissing sound not heard.
 - c) Pull box will in down position and hissing sound can hear.**
 - d) None of these
789. Location of isolating cock provided in 'PEASD' in LHB coaches. ?
- a) On under gear
 - b) Near emergency brake valve
 - c) Under frame**
 - d) None of these
790. When emergency pull box pulled from inside the coach. ?
- (a) The air pressure slightly dropped
 - (b) The air pressure dropped.**
 - (c) No pressure dropped
 - (d) None of these.
791. When emergency chain pulled, brake accelerator will
- (a) Not respond
 - (b) Respond**
 - (c) May be respond
 - (d) None of these.
792. Thickness of new brake pad is- ?
- a) 35 mm**
 - b) 30 mm
 - c) 45 mm
 - d) 30 mm
793. .Condemning limit of brake pad is- ?
- a) 10 mm
 - b) 7 mm**
 - c) 8 mm
 - d) 9 mm
794. Maximum brake cylinder pressure in kg/cm² is- ?
- (a) 3.0 ± 0.1 kg/cm²**
 - (b) 3.8 ± 0.1 kg/cm²
 - (c) 2.8 ± 0.1 kg/cm²
 - (d) 4.0 ± 0.1 kg/cm²

795. Maximum gap between brake disc and brake pad is- ?
- (a) 3 mm
 - (b) 1 mm
 - (c) 2 mm
 - (d) 1.5 mm**
796. In built slack adjuster in brake cylinder is- ?
- a) Single acting mechanism**
 - b) Double acting mechanism
 - c) No slack adjuster
 - d) None of these
797. The brake cylinder is comprises
- a) Power portion
 - b) Slack adjuster mechanism**
 - c) Spindle reset mechanism
 - d) All above
798. . 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
799. 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
800. 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
801. Actual size of tool required to open slack adjuster nut of 'SAB' brake cylinder is
- a)46mm
 - b) 42mm**
 - c)47mm

- d) 45mm
802. Dia of 'SAB' make brake cylinder is
- a) 250mm
 - b) 256mm**
 - c) 245mm
 - d) 255mm
803. Max. length of brake pad is –
- a) 330 mm
 - b) 400 mm**
 - c) 350 mm
 - d) 375 mm
804. Friction area of brake pad is -
- (a) 400 cm²**
 - (b) 300 cm²
 - (c) 350 cm²
 - (d) 375 cm²
805. 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
806. 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
807. What is the diameter meter of brake disc?
- a) 110mm
 - b) 640 mm**
 - c) 70mm
 - d) 125mm
808. Brake disc made up of
- a) Gray Cast iron**

- b) Cast steel
 - c) Special cast steel
 - d) Non of above
809. 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
810. The brake disc fitted on a same axle at the distance is—?
- a) 1030 mm**
 - b) 1070 mm
 - c) 1100 mm
 - d) 1125 mm
811. .Distance of brake disc from inner face of wheel is
- a) 195 mm
 - b) 175 mm**
 - c) 250 mm
 - d) 210 mm
812. How many types of brake system being used on IR
- a)One
 - b)two
 - c)Three
 - d)four**
813. Which type of air brake system being used on LHB coaching stock?
- a)Single pipe air brake system
 - b)Twin pipe disc brake system**
 - c)Twin pipe air brakes system
 - d)Vacuum brake system
814. How many type brakes system provided on LHB power car.
- (a) One
 - (b) Two**
 - (c) Three
 - (d) Four
815. Handbrake are provided on LHB power cars know as

a) Parking brakes

b) Emergency brakes

c) Flex ball remote control brakes

d) Any of above

816. Hand brakes provided on no. of wheels is –

(a) Only one

(b) two wheels of diagonally opposite

(c) Any three of all

(d) Any of above

817. What are main advantages to adopt disc brake system on LHB coaches?

a) Wear and tear on wheels is minimized

b) Over all life of wheels is increased

c) Effective braking than old system

d) All above

818. How many brake discs are provided on one axle?

a) One

b) Two

c) Three

d) Four

819. How many brake discs are provided on one power car?

a) One

b) Eight

c) Three

d) Four

820. How many brake discs provided on LHB coaches are

a) Four

b) Eight

c) Twelve

d) Sixteen

821. How many brake cylinders are provided in an “A” /under frame mounted coach?

a) 2 nos

b) 1 nos

c) 4 nos

d) 8 nos

822. How many brake cylinders are provided on an “AB” / bogie mounted brake system coach?

- a) 1 nos
- b) 2 nos
- c) 4 nos**
- d) 8 nos

823. How many brake cylinders are provided on air brake freight stock?

- a) 3 nos
- b) 2 nos
- c) 1 no**
- d) 4 nos

824. How many brake cylinders are used in a LHB type coaches.

- a) 1 nos
- b) 6 nos
- c) 12 nos
- d) 8 nos**

825. Outer diameter of main BP pipe line is –

- (a) 20mm
- (b) 32mm**
- (c) 28mm
- (d) 40mm

826. Outer diameter of main FP pipe line is

- a) 20mm
- b) 40mm
- c) 32mm**
- d) 28mm

827. Outer diameter of main BC pipe line is

- a) 20mm
- b) 18mm**
- c) 22mm
- d) 10mm

828. Brake caliper unit mounted on -

- a) Bogie cross beam**
- b) Bogie side frame

- c) Wheel axles
 - d) Any of above
829. By pass system is used in brake system when
- (a) F.P pipe broken
 - (b) B.P Pipe broken
 - (c) Hose pipe broken
 - (d) Any of these**
830. 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**
831. What will you do when one end BP angle cock leakage enrout
- (a) By pass the coach
 - (b) Single pipe the train
 - (c) Isolate the line from T-joint
 - (d)Any of above**
832. Brake caliper unit should be checked for
- (a) Corroded part
 - (b) Worn out pins
 - (c) Free leverage
 - (d) All of above**
833. Brake caliper unit mounted with the help of
- (a) M16x60bolt**
 - (b) M 12x 60 mm bolt
 - (c) M 24X60mm bolt
 - (d) M 20 x60 mm bolt
834. Torque required for brake caliper mounting bolt is
- (a) 170nm**
 - (b) 60nm
 - (c) 200nm
 - (d) 190nm
835. Brake caliper jammed when
- (a) Middle pin corroded

(b) Brake pad pin worn out

(c) Brake cylinder lose

(d) Any of above

836. 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

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

(a) Torn bellow

(b) Cracked bellow

(c) Bent bellow

(d) All of above

838. 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

839. 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

840. 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

841. During drop test of the rake the maximum drop permitted in FP is- ?

(a) 0.2 kg/cm²

(b) 0.6 kg/cm²

(c) 2.0 kg/cm²

(d) 1.0 kg/cm²

842. During the Air brake test of the rake which hose pipe should be connect first ?

- (a) FP hose pipe
 - (b) BP hose pipe**
 - (c) Any hose pipe
 - (d) Both hosepipe
843. During the EOT (Engine on train) of the coaching rake which hose pipe should be connect first ?
- a) FP hose pipe**
 - b) BP hose pipe
 - c) Any hose pipe
 - d) Both hosepipe
844. During Air brake testing after connecting BP hose pipe what should be checked.?
- a)Only BP gauge shows pressure
 - b)Only FP gauge shows pressure
 - c)Both BP & FP gauge shows pressure
 - d)Any of above**
845. The parking brake pressure tank is charge through-?
- (a) FP line**
 - (b) Directly from BP line
 - (c) Through DV
 - (d) Any of above
846. During service application the brakes should apply in-?
- (a) 20Sec
 - (b) 30Sec
 - (c) 3-5Sec.**
 - (d) 15-20Sec
847. During service application the brake accelerator will be-?
- (a) Definitely respond
 - (b) Does not respond**
 - (c) May be respond
 - (d) any of above
848. 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

849. Charging time of CR is-?

a)150 Sec.

b) 160 Sec.

c) 140 Sec.

d) 120 Sec.

850. After full brake application the brake should release with in.

a)10-20 Sec.

b) 20-25 Sec.

c) 15-20 Sec

d) 25- 30 Sec.

851. 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

852. 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

853. 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

854. 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

855. 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)Any of the above

856. 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

857. 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

858. 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

859. 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

860. What is the reason of twisting of bellows?

a) Dust accumulation between bellow and piston

b) Hilting of unknown objects during run

c) Excess application of brake cylinder piston

d) Any of above

861. 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

862. If the handbrake indicators shows green even the handbrake is applied the reason will be
- a) Both indicators are defective
 - b) Parking brake continues having leakage
 - c) Roller valve of hand brake inoperative**
 - d) Above b & c both
863. 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
864. 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**
865. What will you do if hand brake indicators shows 'red' but the handbrakes 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**
866. 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) Both a & b**
 - d) Can not be checked
867. 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 of above**

868. Which type of CBC is fitted in LHB Coaches?

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

869. The CBC fitted on LHB coaches' has _feature.

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

870. The tensile stroke of CBC is

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

871. The maximum buffing stroke of CBC is

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

872. Horizontal gathering range of CBC is

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

873. 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.

874. 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.

875. Vertical gathering range of CBC is

(a) **90 mm**

(b) 95 mm

(c) 85 mm

(d) 100 mm

876. 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

877. During coupling operation the speed of vehicle should be

(a) 3-5 Kmph

(b) 2-3kmph

(c) 5kmph

(d) 6-7kmph

878. 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

879. 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.

880. Jaw gap gauge test' is performed when knuckle in

(a) Closed position

(b) Open position

(c) a & b

(d) None of above

881. During check of Jaw gap the gauge should be

a) Pass through the gap

b) Must not pass through the gap

- c) None of above
 - d) Can not say
882. 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
883. 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
884. 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
885. The max height of supporting device should be
- (a) 190 mm
 - (b) 187 mm
 - (c) 187.5 mm**
 - (d) 189.5 mm
886. To keep the coupler in level, the maximum distance between centre of coupler and lower edge of socket should be ?
- (a) 250 mm
 - (b) 260 mm**
 - (c) 240 mm
 - (d) 255 mm
887. Maximum torque is required for supporting device bolts.?
- (a) 400 NM
 - (b) 200 NM**
 - (c) 500 NM
 - (d) 550 NM
888. Maximum torque is required for base plate bolts. ?

- (a) 45 NM
- (b) 180-200 NM**
- (c) 500±25 NM
- (d) 55±50 NM

889. 923. Max. thickness of shim required for increase of buffer height-?

- a) 3 mm**
- b) 5 mm
- c) 10 mm
- d) 15 mm

WRA ,CDTS & Bio- Toilets

890. What is the full form of CDTS?

- a) Compact disk toilet system
- b) Compress Disc tuning system
- c) Control discharge toilet system**
- d) None of these

891. What is the full form of WRA?

- a) wire relay appliances
- b) water raising apparatus**
- c) Worker relief arrangement
- d) None of these.

892. What is the function of Solenoid valve / Magnetic Valve?

- a) To create air pressure
- b) This is part of PLC
- c) To control the entry of Air pressure**
- d) None of these.

893. How many openings 'Retention Tank' have

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

894. Full form of P.L.C. in CDTS ?

- a) Programmable Logic Controller**
- b) Private Limited Company

- c) Perforated Loco Component
 - d) None of these.
895. CDTs work on
- (a) Automatically
 - (b) Electrically & pneumatic pressure arrangement**
 - (c) Manually
 - (d) None of these.
896. Opening of Retention tank activate by
- a) Double acting pneumatic cylinder
 - b) Automatically**
 - c) Manually
 - d) None of these
897. Lower opening of retention tank opens- ?
- a) When retention tank full of waste
 - b) Predetermined speed and predetermine no. of cycle of flush.**
 - c) It used to be always open
 - d) None of these
898. Function of pressurize in CDTs
- a) Delivers pressurized water to flush the waste**
 - b) To deliver the waste
 - c) To create maximum pressure for system
 - d) None of these
899. Function of P.L.C in CDTs
- a) To control the CDTs system
 - b) To record nos. of flush cycle as well as speed of vehicle**
 - c) To record speed of vehicle
 - d) None of these.
900. CDTs system is based on RDSO specification –
- a) MDTS:090
 - b) MDTS : 089
 - c) NO.C 9906**
 - d) None
901. Full form of W.S.P -
- a) Whole System Process

- b) Whole system procedure
 - c) Wheel sliding protection**
 - d) None of these.
902. Toilet bowl made up of
- a) Cast Iron steel
 - b) IRSM41
 - c) Stainless steel AISI304**
 - d) None
903. PLC works on
- a) 240 VAC
 - b) 120 VAC
 - c) 24 VDC**
 - d) 24 VAC
904. CDTs P.L.C. having
- (a) 8 input & 4output**
 - (b) 4 input & 4output
 - (c) 4 input & 8output
 - (d) None of these
905. Solenoid valve works
- a) In running condition of train
 - b) In stationary condition of train
 - c) Based on signal from P.L.C.**
 - d) None of these
906. Upper Flapper valve usually open when
- a) Train is in stationary condition
 - b) Train is in running condition
 - c) Operation of flush button**
 - d) None of these.
907. The slides of upper flapper valve & lower slide valve connected with
- a) By means of link to two pneumatic cylinder**
 - b) By means of wire
 - c) By some mechanical arrangement
 - d) None of these.
908. "Fail Safe Mode" of CDTs works

- a) In case of failure of Braking system
- b) In case of failure of slide valve
- c) In case of failure of loss of air &/or electricity**
- d) None of these

909. In case of retention tank discharge cycle –

- a) Train speed should be less than 10Kmph
- b) Train speed should be above 20Kmph
- c) Train speed should be above 30Kmph**
- d) Train speed should be above 40Kmph.

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

- a) 5 mm SS sheet
- b) 5 mm MS sheet
- c) 3mm SS sheet**
- d) 3 mm MS sheet

911. Thickness of sheet in inside partition of Bio digester is

- a) 3 mm SS sheet
- b) 3 mm MS sheet
- c) 2mm SS sheet**
- d) 2 mm MS sheet

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

- a) 115Kg**
- b) 125Kg
- c) 100 Kg
- d) 150Kg

913. What is the size of ICF coach Bio-digester (H x W x L)?

- a) 450mm x 550mm x 700mm
- b) 540 mm x 1150 mm x 720 mm**
- c) 540mm x 1000mm x 720mm
- d) 450mm x 1150mm x 720mm

914. What is the size of LHB coach Bio-digester (H X W X L)?

- a) 547mm X 580 mm X 1680mm**
- b) 547 mm x 550mm x 1600mm
- c) 540mm x 580mm x 1600mm
- d) 547mm x 580mm x 1650mm

915. What is the effective volume of Bio-Toilet tank?
- (a) 150 lit
 - (b) 200 lit
 - (c) 300 lit**
 - (d) 350 lit
916. What is the height of Bio-Toilet tank from Rail level?
- (a) 250mm
 - (b) 225 mm**
 - (c) 275 mm
 - (d) 290mm
917. Flow of human waste from Ist and last chamber is passed through?
- a) Gravity method
 - b) Siphon method
 - c) Pipe arrangement**
 - d) Lifting arrangement
918. What is full name of TPE connector?
- a) Thermo plastic electron
 - b) Thermoplastic Polyurethane Material**
 - c) Thermoplastic Polyurethane Membrane
 - d) None of the above
919. Green band on exterior below toilet glass indicates, that the coach is provided with ?
- a) CDTS
 - b) Bio-Toilet**
 - c) Vacuum Toilet
 - d) Vacuum cleaner
920. How many compartments are provided inside the Bio-Digester?
- (a) 6**
 - (b) 8
 - (c) 4
 - (d) 10
921. Why 6 compartments are provided inside the Bio-Digester?
- a) To increase surface area of Bio-Digester
 - b) To increase the volume of Bio-Digester
 - c) To give sufficient time for growth of bacteria**

d) None of the above

922. Growth of bacteria occurs in which area of Bio-Toilet?

a) Compartment walls

b) Poly Grass Mat

c) Bottom of chambers

d) Top of chambers

SUSPENSION & MISCELLANEOUS QUESTIONS

923. Length of FIAT Bogie is

(a) 3535 mm

(b) 3534 mm

(c) 3600 mm

(d) 3530 mm

924. Weight of FIAT Bogie is

(a) 6 t

(b) 6.92 t

(c) 7.0 t

(d) 8.0 t

925. Width of FIAT Bogie is

a) 3030 mm

b) 3240 mm

c) 3040 mm

d) 3010 mm

926. Distance between centre of two bogies is–

a) 15000 mm

b) 14900 mm

c) 19500 mm

d) 15090 mm

927. Capacity of luggage room of WLRRM is–

(a) 3.9 t

(b) 5.0 t

(c) 4.5 t

(d) 6.0 t

928. Cooling capacity of LHB coach is
- (a) 3.9 t
 - (b) 22.5 KW**
 - (c) 22 KW
 - (d) 25.0 KW
929. 'T' type schedule indicates
- (a) Weekly schedule
 - (b) Trip schedule**
 - (c) Monthly schedule
 - (d) six monthly
930. Max. limit of cracks permissible for roll link silent block in depth is
- (a) 36.7mm
 - (b) 35 mm**
 - (c) 39mm
 - (d) 40mm
931. New thickness of primary rubber pad is—
- (a) 36.7mm**
 - (b) 30.7mm
 - (c) 35.7mm
 - (d) 38.2mm
932. Max. Permissible limit of crack in depth for primary rubber pad is
- (a) Depth=10mm
 - (b) Depth = 15mm
 - (c) Depth=18mm**
 - (d) Depth = 25mm
933. 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**
934. 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.

935. How much grease is required for Timken make bearing?

(a) 300gm

(b) 350gm

(c) 500 gm

(d) 400gm

936. 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

937. Compressed length of Yaw damper is

(a) 800 ± 3 mm

(b) 703 ± 3 mm

(c) 700 ± 3 mm

(d) $800 \text{ mm} \pm 3$ mm

938. Extended length of yaw damper is

a) 703 ± 3 mm

b) 1083 ± 3 mm

c) 700 ± 3 mm

d) 800 ± 3 mm

939. Compressed length of primary vertical damper is—

a) 294 ± 3 mm

b) 434 ± 3 mm

c) 298 ± 3 mm

d) 325 ± 3 mm

940. Extended length of primary vertical damper is—

a) 294 ± 3 mm

b) 434 ± 3 mm

c) 298 ± 3 mm

d) 325 ± 3 mm

941. Stroke of primary vertical damper is

a) 160 mm

b) 140 mm

- c) 60 mm
 - d) 150 mm
942. Overall stroke of yaw damper is
- a) 260 mm
 - b) 380 mm**
 - c) 300 mm
 - d) 280 mm
943. Compressed length of secondary vertical damper is–
- a) 240 ±3mm
 - b) 395± 3 mm**
 - c) 690 ±3 mm
 - d) 325±3 mm
944. Extended length of secondary vertical damper is –
- a) 240 ±3mm
 - b) 635 ± 3 mm**
 - c) 260 ±3mm
 - d) 325±3 mm
945. Compressed length of secondary lateral damper is
- a) 400 mm
 - b) 360 ± 3 mm**
 - c) 240 ± 3mm
 - d) 325±3 mm
946. Extended length of secondary lateral damper is –
- a) 395±3mm
 - b) 545 ±3mm**
 - c) 600 mm
 - d) 325±3mm
947. Overall stroke of secondary lateral damper is–
- a) 240 ±3 mm
 - b) 185 ± 3 mm**
 - c) 690 ±3 mm
 - d) 325±3 mm
948. Capacity of under frame water tank fitted in AC/3tier.
- a) 650 Ltr

b) 685 Ltr

c) 400 Ltr

d) 500 Ltrs

949. Capacity of water tank provided in toilet for emergency–

a) 30 Ltr

b) 50 Ltr

c) 40 Ltr

d) 35 Ltr

950. The CBC fitted on LHB coaches has

a) Only pulling action

b) Only buffing action

C) Both pull & Buffing action

d) Non of the above

951. What kind of maintenance is used for rolling stock is-?

a) Break down maintenance

b) Preventive maintenance

c) Both a & b

d) Non of the above

952. Primary maintenance is a type of ?

a) Break down maintenance

b) Preventive maintenance

c) Safe to run examination

d) None of these

953. 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

954. 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

955. The capacity of axle of LHB coach is

- a) 13 t
- b) 16 t
- c) 16.25 t**
- d) 22 t

956. "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.

957. 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

958. 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**

959. The anti roll bar must be checked for

- a) Any weariness
- b) Any cracks
- c) Free movement
- d) All the above**

960. 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**

961. Grease of anti roll bar should be replace during every

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

962. The torque required for axle end safety disc.

a) 170 Nm

b) 180 Nm

c) 200 Nm

d) 590 Nm

963. Wheel tapping is done to detect

a) Any hair cracks

b) Any material flows

c) Any wheel shelling

d) All the above

964. How much shelling on a wheel can be allowed?

a) 50mm

b) 30mm

c) 20mm multiple

d) No shelling allowed

965. Control arm fitted with help of

(a) 2 bracket safety plated & 6bolt

(b) 6 bracket, 6- safety plated & 6 bolt

(c) 2 bracket, 2 safety plate & 2bolt

(d) None of above

966. Torque required for centre pivot screw is

(a) 170Nm

(b) 200Nm

(c) 120Nm

(d) 70Nm

967. Torque required for control arm bracket bolt is

(a) 200Nm

(b) 170Nm

(c) 250Nm

(d) 100Nm

968. What size spanner is used to loosen lock adjuster nut in case of KB make-?

(a) AF 43

(b) AF 24/27

(c) AF 36

- (d) Any of above
969. The NRV is provided in
- (a) BC Line
 - (b) BP line
 - (c) FP line**
 - (d) All above
970. if the silent block of roll link is shifted one side the roll link -
- (a) Not required to replace
 - (b) Can be allowed for one trip
 - (c) Must be replaced**
 - (d) None of these
971. If the silent block of traction link shifted to one side the traction link
- a) Must be replaced**
 - b) Not required replacing
 - c) Can be allowed for one trip
 - d) None of these
972. 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
973. 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
974. The gangway bridge mounting provided for
- a) To provide a bridge between two coaches**
 - b) To protect vestibule doors
 - c) Both a & b
 - d) None of the these
975. The supporting bracket of gangway bridge mounting should be checked for?
- (a) Corroded
 - (b) Broken or loose

(c) Intact of all bolts

(d) All of above

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

(a) Trip schedule

(b) D1 schedule

(c) D2 schedule

(d) D3 schedule

977. 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

978. 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

979. 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

980. For free movement of sliding and vestibule doors

(a)Oil should be provided on shaft

(b)Grease should be provided on shaft

(c)Vaseline should be provided on shaft

(d)Any of above

981. How many emergency windows are provided on a coach -

(a) Two

(b) Three

(c) Four

(d) Six

982. can you identified the emergency windows

a)Provided with Red colors handles

b) Provided with stickers on each emergency window

c) Above a & b

d) None of these

983. The FR panels are -

(a) Fire retardant

(b) Fire proof

(c) Fire friendly

(d) All of above

984. Curtains and Rexene seats provided on LHB coaches are

(a) Fiber made

(b) Fire retardant

(c) Fire proof

(d) All of above

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

a) 2

b) 3

c) 4

d) 5

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

a) 2

b) 3

c) 4

d) 1

987. What is the capacity of under slung water tank provided on WLRRM?

(a) 630ltr

(b) 640ltr

(c) 400ltr

(d) 450ltr

988. What is the purpose to provide water level indicator on water tanks?

(a) Availability of water

(b) Capacity of water tank

(c) Location of water tank

(d) None of these

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

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

990. The sensor is provided on

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

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

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

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

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

993. If the luggage door top stopper is missing

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

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

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

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

- a) Whole the rake
- b) All dump valve of the coach**
- c) Particular dump valve of the coach

d) None of these

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

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

997. 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**

998. 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**

999. The brake pads should be of same thickness on ?

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

1000. If difference in thickness of brake pads is appear , the reason could be - ?

- (a) The brake pads fitted with different thickness purposely
- (b) The caliper is running in jam condition
- (c) The slack adjustment of brake cylinder is not proper
- (d) Any of the above**

1001. 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

1002. 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

1003.If the drain cock of 125 ltr. Reservoir gets open or broken

(a) **The brakes of whole rake will fail**

(b) The 75 ltr reservoir will also drain

(c) The 75 ltr reservoir will not affect

(d) All of above

1004.If NRV of FP line is defective

a) Both BP & FP will drain

b) Only 125 ltr reservoir will drain

c) Only 75 ltr reservoir will drain

d) Any of above

1005.The NRV provided for

a) To protect 125 ltr reservoir to drain

b) To protect 75 ltr reservoir to drain

c) To protect CR reservoir to drain

d) To protect 125,75ltr reservoir & CR to drain

1006.The yaw damper will be defective if

(a) Eyehole bush cracked badly

(b) Any bolt is missing or broken

(c) Damper badly leaky or physically damaged

(d) All above

1007.If one side yaw damper is Leakey

(a) It will affect the riding quality of coach

(b) Coach may be tilted

(c) Secondary spring may broken

(d) All above

1008.If Secondary vertical damper defective it will affect- ?

a)The quality of sec. suspension

b)The quality of riding index

c)The spring may breakage

d)Any of above

MAINTENANCE SCHEDULE

1009.How many Maintenance Schedule are generally done in primary Maintenance Depot of LHB Coaches?

- a) One
- b)Two
- c) Three**
- d)None

1010.Frequency of D1 Schedule is

- (a) On Every Trip**
- (b) 7days
- (c) 15days
- (d) 30days

1011.Frequency of D2 Schedule is

- (a) 7 days \pm 1day**
- (b) 10 days \pm 1day
- (c) 15 days \pm 1day
- (d) 30 days \pm 3day

1012.Frequency of D3 Schedule is

- (a) 1 month \pm 1day
- (b) 3 month \pm 3day
- (c) 6 month \pm 15day**
- (d) 9 month \pm 3day

1013.Intensive cleaning of coaches should be done in

- (a) D1Schedule
- (b) D2Schedule
- (c) D3Schedule
- (d) D1, D2 &D3**

1014.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

1015.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

1016.Examination of sole bar for corrosion is done in

a)D1 Schedule

b) D2Schedule

c) D1, D2 &D3Schedule

d) D3Schedule

1017.Touching up damaged paint inside and outside in

a)D1 Schedule

b) D2 Schedule

c) D2 &D3 Schedule

d) D3 Schedule

1018.Checking of bogie bolster assembly and bracketed in

a)D1 Schedule

b) D2 Schedule

c) D1, D2 &D3Schedule

d) D3Schedule

1019.Washing of bogie frame thoroughly with water jet in

(a) D1 Schedule

(b) D2 Schedule

(c) D2 &D3 Schedule

(d) D3 Schedule

1020.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

1021.Carrying out of functional test on pneumatic brake system in –?

(a) D1 Schedule

(b) D2 Schedule

(c) D1, D2 &D3 Schedule

(d) D3 Schedule

1022.Checking of air hoses is done in-?

(a) D1 Schedule

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

1023. Verifying the clearance between each pad and disc surface in- ?

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

1024. Inspection of earthing equipment for wear of carbon bars-?

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

1025. Checking of crack, damage of spring is done in- ?

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

1026. Checking of dampers its rubber elements is done in

- (a) D1 Schedule
- (b) D2 Schedule
- (c) D1, D2 &D3 Schedule**
- (d) D3Schedule

1027. 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

1028. Checking of wheel profile gauge is done in

- (a) D1 Schedule
- (b) D2Schedule
- (c) D1, D2 &D3Schedule**
- (d) D3Schedule

1029. Inspection of Rotation Limiter is done in

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

1030.Checking of tread diameter and wear of wheel profile is done in

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

1031.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) D3Schedule

1032.Lubrication fall pin sand bushes is done in

- (a) D1Schedule
- (b) D2 & D3 Schedule**
- (c) D1, D2 &D3Schedule
- (d) D3Schedule

1033.Inspection of coupler head, knuckle for damage is checked in-?

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

1034.checking of tell tale recess for ensuring proper coupling is done in- ?

- a)D1Schedule
- b) D2Schedule
- c) D1, D2 &D3Schedule**
- d) D3Schedule

1035.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

1036.Cleaning of Air Filter is done in -

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

d) D2 & D3 Schedule

1037.Draining of Air tank is done in

- a)D1 Schedule
- b) D2 Schedule

c) D1, D2 & D3 Schedule

d) D3 Schedule

1038.Inspection of seats, Luggage rack etc. is done in – ?

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

1039.Inspection of Leaf of sliding door is done in

- (a) D1Schedule
- (b) D2Schedule
- (c) D1, D2 &D3Schedule**
- (d) D3Schedule

1040.Lubrication of door seals with silicon paste is done in

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

d) D3 Schedule

1041.What is SS-I?

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

1042.Where shop schedule is carried out

- (a) In primary depot
- (b) In sick line

(c) **In workshops**

(d) none

1043. Frequency of SS-I is -

(a) **18 month \pm 30 days**

(b) 20 months \pm 7 day

(c) 24 months \pm 15 day

(d) D3 Schedule

1044. 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

1045. Frequency of SS-II is -

(a) 1 year

(b) 2 years

(c) **3 years**

(d) 5 years

1046. 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**

1047. Frequency of SS-III is -

(a) 2 years

(b) 3 years

(c) **6 years**

(d) 5 years

1048. 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

UNDER GEAR /BOGIE

1049. What capacity of the equalizing stays of the shatabdi Exp.?

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

1050. The condemning size of sand casting brake block is –

- (a) 30.0 mm
- (b) 10.0 mm
- (c) 20.0 mm**
- (d) 15.0 mm

1051. The clearance between pin and bushes should not exceed –

- (a) 1.0 mm
- (b) 0.5 mm
- (c) 1.5 mm**
- (d) None of the above

1052. After indo-German modification in coaching stock, what type of bushes to be used for brake gear components?

- (a) Nylon -55
- (b) Steel –46
- (c) Nylon –66**
- (d) Copper coated –55

1053. What is amount of the oil per side bearer in ICF coaches?

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

1054. With what the lateral and longitudinal guides of ICF bogie is mounted?

- (a) Dash pot**
- (b) side bearer
- (c) CBC
- (d) Spring

1055. What should be the maximum distance between safety loop and axle in ICF bogie?

- (a) 32.0 mm
- (b) 35.0 mm

(c) 40.0 mm

(d) 44.0 mm

1056. What is the distance between side bearers of ICF coach?

(a) 1560 mm

(b) 1590 mm

(c) 1600 mm

(d) 1610 mm

1057. After indo- German modification, the crown clearance bolt to be fitted with-

(a) Steel bush

(b) Rubber washer

(c) Nylon bush

(d) Rubber packing

1058. What types of brake blocks are used in bogie mounted brake system in coaching stock?

(a) 'L' type

(b) 'K' type

(c) 'CI' type

(d) All type

1059. In released position, the gap between brake block and wheel is –

(a) 3 mm

(b) 4 mm

(c) 5 mm

(d) 7 mm

1060. What is the oil level in dashpot?

(a) 50.0 mm

(b) 40.0 mm

(c) 75.0 mm

(d) 90.0 mm

1061. What should be the interval of check the dashpot oil in mail/Express train?

(a) 15 days

(b) 25 days

(c) one month

(d) two month

1062.What is the amount of oil per dashpot in 40-mm depth in modified guide arrangement?

(a) 1.6 litter

(b) 2.5 litter

(c) 2.2 litter

(d) 1.9 litter

1063.What is the interval of check the side bearer oil?

(a) One month

(b) 25 days

(c) 15 days

(d) 10 days

1064.In bogie mounted air brake systems, the No of brake cylinder are –

(a) 8

(b) 6

(c) 2

(d) 4

1065.In ICF & RCF bogie, the total height of primary spring and compensating ring should not exceed –

(a) 285 mm

(b) 290 mm

(c) 295 mm

(d) 300 mm

1066.The minimum clearance between the axle box using lugs and their safety straps is –

(a) 36.0 mm

(b) 40.0 mm

(c) 44.0 mm

(d) 43.0 mm

1067.The crown clearance “A” between the axle box crown and the bogie frame of GS, SPC, SLR, SCN, VPH coaches is -

(a) 40 ± 2 mm

(b) $43 \pm 0/3$ mm

(c) $42 \pm 0/4$ mm

(d) 45 ± 2 mm

1068. In WGACCW, WGACCN coaches, the crown clearance between the axle box crown and the bogie frame is -

- (a) 30 ± 2 mm
- (b) 30 ± 5 mm
- (c) $27 \pm 0/3$ mm**
- (d) $25 \pm 0/3$ mm

1069. What is the bolster weight of ICF bogie?

- (a) 0.234 t
- (b) 0.400 t**
- (c) 0.486 t
- (d) 0.513 t

1070. The variation in all four-corner height of the bogie must be less than or equal to -

- (a) 5.0 mm
- (b) 10.0 mm**
- (c) 15.0 mm
- (d) 18.0 mm

1071. Weight of each non AC RCF bogie is -

- (a) 4.90 t
- (b) 5.9 t**
- (c) 6.20 t
- (d) 6.898 t

1072. The weight of the coach is transferred through -

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

1073. How many numbers of holes in guide cap hole in ICF/RCF bogie -

- (a) 5
- (b) 7
- (c) 9**
- (d) 11

1074. What is the diameter of guide cap hole in ICF/RCF bogie?

- (a) 4.0 mm
- (b) 3.0 mm**

(c) 5.0 mm

(d) 7.0 mm

1075.Center pivot pin does not transmit any -

(a) Horizontal load

(b) Tractive

(c) Breaking force

(d) Vertical force

1076.New dimension of side bearers wearing plate is -

(a) 10.0 mm

(b) 12.0 mm

(c) 14.0 mm

(d) 16.0 mm

1077.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

1078.Condemning size of side bearer wearing plate is -

(a) 10.0 mm

(b) 9.0 mm

(c) 8.50 mm

(d) 7.50 mm

1079.Newly dimension of side bearer wearing pieces is -

(a) 45.0 mm

(b) 44.0 mm

(c) 43.0 mm

(d) 42.0 mm

1080. 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

1081.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

1082.Length of the anchor link is -

(a) $445 \pm 1\text{mm}$

(b) $450 \pm 1\text{mm}$

(c) $451 \pm 1\text{mm}$

(d) $455 \pm 1\text{mm}$

1083.What mechanism is provided to control the speed of the coach by transferring the breaking Force from break cylinder to the wheel tread?

(a) Brake rigging

(b) Push rod

(c) Anchor link

(d) Brake cylinder

1084.How many brake head & block complete in coach under frame mounted brake rigging –

(a) 8

(b) 12

(c) 16

(d) 18

1085.How many adjusting links in coach under frame mounted brake rigging?

(a) 2

(b) 4

(c) 3

(d) 6

1086. New size of hanger block (top & bottom) is -

(a) 9.5 mm

(b) 10.5 mm

(c) 8.5 mm

(d) 9.0 mm

1087.What is shop issue size of hanger block (top & bottom)?

(a) 9.5 mm

(b) 9.0 mm

(c) 8.5 mm

(d) 8.0 mm

1088. What is the wear limit of hanger block (top & bottom)?

(a) 1.0 mm

(b) 2.0 mm

(c) 1.5 mm

(d) 3.0 mm

1089. Wear limit of BSS brackets is -

(a) 0.5 mm

(b) 1.0 mm

(c) 1.5 mm

(d) 2.0 mm

1090. Longitudinal gauge for BSS bracket of 13-t bogie is -

(a) 1400± 1.0 mm

(b) 1300± 1.0 mm

(c) 1500± 1.0 mm

(d) 14500± 1.0 mm

1091. Longitudinal gauge for BSS bracket of 16.25-t bogie is -

(a) 1400± 1.0 mm

(b) 1500± 1.0 mm

(c) 14500± 1.0 mm

(d) 13000± 1.0 mm

1092. Diagonal gauge for BSS bracket of 13 t bogie is -

(a) 2687± 1.0 mm

(b) 2573± 1.0 mm

(c) 2159± 1.0 mm

(d) 2159± 1.0 mm

1093. Diagonal gauge for BSS bracket of 16.25 t bogie is -

(a) 2573± 1.0 mm

(b) 2687± 1.0 mm

(c) 2629± 1.0 mm

(d) 3612± 1.0 mm

1094. Longitudinal gauge for axle guide of 13 t bogie is -

(a) 570± 1.0 mm

(b) 580± 1.0 mm

(c) 590 ± 1.0 mm

(d) 595 ± 1.0 mm

1095. Longitudinal gauge for axle guide of 16.25 t bogie is -

(a) 580 ± 1.0 mm

(b) 570 ± 1.0 mm

(c) 590 ± 1.0 mm

(d) 575 ± 1.0 mm

1096. Longitudinal 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

1097. Distance between BSS bracket and adjust axle gauge of 13 t bogie is -

(a) 463 ± 1.0 mm

(b) 453 ± 1.0 mm

(c) 455 ± 1.0 mm

(d) 413 ± 1.0 mm

1098. Distance between BSS bracket and adjust axle gauge of 16.25 t bogie is -

(a) 463 ± 1.0 mm

(b) 451 ± 1.0 mm

(c) 423 ± 1.0 mm

(d) 413 ± 1.0 mm

1099. New diameter of pin for BSS hanger is -

(a) 35 mm

(b) 37 mm

(c) 38 mm

(d) 40 mm

1100. What is the hole diameter of level hanger bracket?

(a) 30 mm

(b) 31 mm

(c) 32 mm

(d) 35 mm

1101. Inside diameter of anchor link silent block is -

(a) 25.0 mm

- (b) 30.0 mm
- (c) 32.0 mm
- (d) 35.0 mm

1102. Outer diameter of anchor link silent block is -

- (a) 85.5 mm
- (b) 87.5 mm
- (c) 90.5 mm**
- (d) 91.5 mm

1103. New diameter for pins for 16.25 t load bearing capacity equalizing stay is

- (a) $31 \pm 0.5/0.2$ mm**
- (b) $33 \pm 0.5/0.3$ mm
- (c) 35 ± 1.0 mm
- (d) 30 ± 1.0 mm

1104. New diameter for pins for 13-t axle load bearing capacity equalizing stay is –

- (a) 31 ± 1.0 mm**
- (b) 25 ± 1.0 mm
- (c) $24 \pm 0.2/0.1$ mm
- (d) 20 ± 0.51 mm

1105. All the hangers should be tested to tensile load of -

- (a) 10 t
- (b) 8.0 t**
- (c) 7.0 t
- (d) 6.5 t

1106. Inside distance between horizontal bearing arms of BSS hanger is –

- (a) 374 mm
- (b) 378 mm
- (c) 381 mm
- (d) 384 mm**

1107. Thickness of vertical arm of BSS hanger is -

- (a) 20.5 mm
- (b) 25.5 mm**
- (c) 30.5 mm
- (d) 23.5 mm

1108. Horizontal bearing surface of BSS hanger is -

(a) 42.0 mm

(b) 44.0 mm

(c) 45.0 mm

(d) 48.0 mm

1109. The maximum diametrical clearance between the pins and bushes is –

(a) 1.0 mm

(b) 1.5 mm

(c) 1.2 mm

(d) 1.4 mm

1110. The maximum diametrical clearance between the lower spring seat and guide bush should not exceed -

(a) 1.4 mm

(b) 1.5 mm

(c) 1.6 mm

(d) 2.0 mm

1111. Minimum clearance between the lugs and bottom of safety straps is –

(a) 40.0 mm

(b) 42.0 mm

(c) 45.0 mm

(d) 48.0 mm

1112. Weight of the AC ICF bogie is –

(a) 5.80 t

(b) 480 t

(c) 6.200 t

(d) 7.22 t

1113. Oil level in hydraulic Dashpot of rajadhani and shatabiti coaches should be checked once in –

(a) 10 days

(b) 15 days

(c) 20 days

(d) one month

1114. Length of brake block hanger from center to center of brake block hanger is

(a) 235 ± 0.5 mm

(b) 238 ± 1.0 mm

(c) 236 ± 1.0 mm

(d) 224 ± 1.0 mm

1115. In case of high-speed train, Brake rigging with long Arm of the brake shaft is 686 mm it should be replaced by an Arm of length is –

(a) 786 mm

(b) 830 mm

(c) 827 mm

(d) 840 mm

1116. Coach nominated to run at a sanctioned speed of 110 Km/h. The lateral play of plain bearing in IRS coaches should not exceed –

(a) 3.0 mm

(b) 5.0 mm

(c) 7.0 mm

(d) 10.0 mm

1117. Coach nominated to run at a sanctioned speed of 110 Km/h, the longitudinal clearance between horn-cheeks and axle box liner across horn gaps in IRS coach should be –

(a) 1.0 mm

(b) 2.0 mm

(c) 3.0 mm

(d) 5.0 mm

1118. Which type brake system, external slack adjuster have been eliminated?

(a) BMBC

(b) UMBS

(c) BMBS & UMBS

(d) None of the above

1119. How many brake cylinders fitted in an ICF under slug brake system?

(a) 4

(b) 2

(c) 1

(d) None

1120. What is the modified brake-rigging ratio of self-generating air brake coaches with under frame mounted brake system?

(a) 1.14:2

(b) 1.13:2

(c) 1.3:1

(d) 1.17:1

1121. What is the piston stroke with modified brake rigging ratio of self-generating air brake coaches with under frame mounted brake system?

(a) 80 ± 10 mm

(b) 70 ± 10 mm

(c) 75 ± 10 mm

(d) 60 ± 10 mm

1122. What is the bogie leverage ratio of WGACCW coach?

(a) 1.14:2

(b) 1.5:5

(c) 1.7:5

(d) 1.10:1

1123. How many Non return valves are provided in ICF coach fitted with WRA system?

(a) 03

(b) 05

(c) 07

(d) 08

1124. If wheel diameter of an ICF coach is 887mm (889 –863), How much thickness of wooden packing is required for buffer height adjustment?

(a) 13 mm

(b) 38 mm

(c) 48 mm

(d) 26 mm

1125. If wheel diameter of an ICF coach is 860 mm (863 –839), How much thickness of wooden packing is required for buffer height adjustment?

(a) 13 mm

(b) 38 mm

(c) 48 mm

(d) 26 mm

1126. If wheel diameter of an ICF coach is 820mm (839 –819), How much thickness of wooden packing is required for buffer height adjustment?

(a) 13 mm

(b) 38 mm

(c) 48 mm

(d) 26 mm

1127.If wheel diameter of an ICF coach is less than 819 mm, How much thickness of wooden packing is required for buffer height adjustment?

(a) 13 mm

(b) 38 mm

(c) 48 mm

(d) 26 mm

1128.Truce bar hanger length is increased from –

(a) 205 to 235 mm

(b) 205 to 240 mm

(c) 205 to 255 mm

(d) None of the above

1129.Wear limit of equalizing stay pins is -

(a) Up to 1.0 mm

(b) Up to 1.5 mm

(c) Up to 2.0 mm

(d) none of the above

1130.What is the position of equalizing stay rod, between what parts it is fitted?

(a) SAB head to control rod

(b) bolster and lower spring plank

(c) Bolster and bogie transoms

(d) None of the above

1131.Where anchor link is fitted in a bogie?

(a) Bolster and bogie transom

(b) Bolster stay rod and plank.

(c) Equalizing stay rod and plank.

(d) None of the above

1132.What is the modification of equalizing stay rod?

(a) Fitted 16 tons in all coaches

(b) fitted 18 tons in all coaches

(c) Fitted 14 tons in all coaches

(d) none of the above

1133.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

1134.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

1135.Between what, crown clearance “A” is measured -

- (a) Between bolster & side frame
- (b) Between anchor ling and primary suspension
- (c) Between axle box crown and the crown bolt**
- (d) None of the above

1136.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

WHEEL & AXLE

1137.Permissible variations in wheel tread diameter for four-wheeled trolley (IRS-Non IRS) 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

1138.Permissible variations in wheel tread diameter for four-wheeled trolley (Sehileren, ICF , BEML) in the same axle on BG is -(while turning the wheel)

- a) 0.45 mm
- b) 0.50 mm**
- c) 0.60 mm
- d) 0.48 mm

1139. Permissible variations in wheel tread diameter for six-wheeled trolley in the same axle on BG is –(while turning the wheel)

- a) 0.30 mm
- b) 0.60 mm
- c) 0.50 mm**
- d) 0.45 mm

1140. Permissible variations in wheel tread diameter for six-wheeled trolley unit in the same axle on BG is –(while turning the wheel)

- a) 0.60 mm
- b) 0.30 mm
- c) 0.50 mm**
- d) 0.48 mm

1141. Permissible variations in wheel tread diameter for four-wheeled unit in the same axle on BG is –(while turning the wheel)

- a) 0.35 mm
- b) 0.49 mm
- c) 0.48 mm
- d) 0.50 mm**

1142. Permissible variations in wheel tread diameter for power coach in the same axle on BG is –

- a) 0.48 mm
- b) 0.40 mm
- c) 0.50 mm**
- d) 0.35 mm

1143. Permissible variations in wheel tread diameter for four-wheeled trolley 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**

1144. Permissible variations in wheel tread diameter for four-wheeled trolley (Sehleren, ICF, and BEML) in the same trolley on BG is –(while turning the wheel)

a) 10.0 mm

b) 7.0 mm

c) 5.0 mm

d) 8.0 mm

1145. Permissible variations in wheel tread diameter for six-wheeled trolley in the same trolley on BG is -(while turning the wheel)

a) 10.0 mm

b) 8.0 mm

c) 6.0 mm

d) 5.0 mm

1146. Permissible variations in wheel tread diameter for six-wheeled trolley unit in the same trolley on BG is -(while turning the wheel)

a) 5.0 mm

b) None

c) 4.0 mm

d) 6.0 mm

1147. Permissible variations in wheel tread diameter for power coach in the same trolley on BG is

a) 5.0 mm

b) 3.0 mm

c) 4.0 mm

d) 6.0 mm

1148. Permissible variations in wheel tread diameter for four-wheeled trolley (IRS-Non IRS) in the same coach or same unit on BG is -(while turning the wheel)

a) 10.0 mm

b) 13.0 mm

c) 12.0 mm

d) 15.6 mm

1149. Permissible variation in wheel treads diameter for four-wheeled trolley (Sehleren, ICF, and BEML) in the same coach or same unit on BG is -(while turning the wheel)

a) 11.0 mm

b) 12.0 mm

c) 13.0 mm

d) 15.0 mm

1150. Permissible variations in wheel tread diameter for six-wheeled trolley in the coach or same unit on BG is -(while turning the wheel)

a) 10.0 mm

b) 8.0 mm

c) 4.0 mm

d) 6.0 mm

1151. Permissible variations in wheel tread diameter for four-wheeled unit on the coach or same unit on BG is -(while turning the wheel)

a) 20.0 mm

b) 15.0 mm

c) 25.0 mm

d) 18.0 mm

1152. Permissible variation in wheel tread diameter for power coaches on the coach or same unit on BG is - (while turning the wheel)

a) 10.0 mm

b) 13.0 mm

c) 12.0 mm

d) 11.0 mm

1153. The axle load of AC coaches is -

a) 22.0 tons

b) 16.25 tons

c) 15.0 tons

d) 14.50 tons

1154. The top & bottom flange thickness of 16.25 tons axle load bogie is -

a) 14.0 mm

b) 16.0 mm

c) 15.0 mm

d) 20.0 mm

1155. The use of 16.25 tons axle load bogie is in -

a) WGS

b) AC

c) WGSCN

d) Non AC

1156. Axle load capacity of generator (WLLRM) coach is –

a) 16.0 tons

b) 16.25 tons

c) 15.0 tons

d) 20.30 tons

1157. The top and bottom flange thickness of 13 tons load bogie is –

a) 14.0 mm

b) 12.0 mm

c) 15.0 mm

d) 20.0 mm

1158. The use of 13 tons axle load bogie is –

a) PVH

b) AC

c) Power Car

d) Non AC

1159. What is the size of direct mounted roller bearing journal of ICF bogie?

a) 125*111 mm

b) 120*113.5 mm

c) 125*130 mm

d) 130*100 mm

1160. Flat faces on BG coach is –

a) 60.0 mm

b) 50.0 mm

c) 75.0 mm

d) 90.0 mm

1161. High speed ICF coach condemning flange thickness is –

a) 14.0 mm

b) 13.0 mm

c) 22.0 mm

d) 10.0 mm

1162. Lateral movements of wheels are controlled by –

a) Axle Guide

b) Journal center

c) roller bearing

d) Desh pot

1163. Maximum axle load bearing capacity of non-AC ICF/RCF coach is

a) 18.2 t

b) 17.32 t

c) 16.25 t

d) 13 t

1164. Maximum axle load bearing capacity of AC ICF/RCF coach is –

a) 16.25 t

b) 13 t

c) 15 t

d) 14.28 t

1165. Bogie wheelbase of ICF/ RCF all coil bogies are -

a) 2896 mm

b) 2986 mm

c) 2886 mm

d) 2997 mm

1166. What is the new wheel diameter of ICF/ RCF coach is –

a) 910 mm

b) 915 mm

c) 930 mm

d) 925 mm

1167. Min shop issue size of ICF solid wheel is –

a) 837 mm

b) 870 mm

c) 854 mm

d) 8746 mm

1168. Flange thickness of new BG wheel coach is –

a) 28.0 mm

b) 28.50 mm

c) 29.50 mm

d) 27.50 mm

1169. Condemning flange thickness of other than superfast new BG wheel is –

a) 28.0 mm

b) 20.0 mm

c) 16.0 mm

d) 14.0 mm

1170. Height at tread in center of BG wheel is –

a) 28.5 mm

b) 29.5 mm

c) 30.5 mm

d) 32.5 mm

1171. Top radius of the new BG wheel is –

a) 14.0 mm

b) 13.5 mm

c) 11.5 mm

d) 10.5 mm

1172. 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

1173. The thickness of tyre at tread in the center of wheel on BG coach is –

a) 63.50 mm

b) 65.50 mm

c) 57.50 mm

d) 58.50 mm

1174. The thickness of BG wheel flange of high-speed train coach is –

a) 28.50 mm

b) 27.50 mm

c) 29.4 mm

d) 29.50 mm

1175. 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

1176. 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

1177. Clearance between brake block and wheel tread of ICF coach is –

- a) 5.0 mm**
- b) 6.25 mm
- c) 6.75 mm
- d) 5.75 mm

1178. On same axle hardness of both wheel should not be very more than –

- a) 70 BHN
- b) 65 BHN
- c) 45 BHN
- d) 35 BHN**

1179. Total length of axle is

- a) $2310 + 0.5/-0.0\text{mm}$
- b) $2316 + 0.5/-0.0\text{mm}$**
- c) $2318 + 0.5/-0.0\text{mm}$
- d) $2320 + 0.5/-0.0\text{mm}$

1180. On ICF journal, a taper should not exceed –

- a) 0.010/ o.o15 mm
- b) 0.015/ o.o10mm**
- c) 0.010/ o.o25mm
- d) None of the above

1181. On ICF journal, out of roundness (ovality) must not exceed –

- a) 0.010/ o.o15mm
- b) 0.015/ o.o10mm
- c) 0.015/ o.o20mm**
- d) None of the above

1182. After POH, the lowest permissible wheel diameter for a coach is –

- a) Not less than 900 mm
- b) Not less than 860 mm

c) **Not less than 837 mm**

d) Not less than 826 mm

BEARING

1183. Which type of grease used in roller bearing in ICF coach?

a) Servo –20

b) **Lithium base**

c) Servo –40

d) Graphite –20

1184. 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

1185. 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

1186. Maximum permissible radial clearance for SKF make bearing in service is –

a) **0.33 mm**

b) 0.56 mm

c) 0.270 mm

d) 0.295 mm

1187. Maximum permissible radial clearances for NBC make bearing in service is –

a) 0.33 mm

b) 0.56 mm

c) 0.270 mm

d) **0.295 mm**

1188. LHB coaches are provided with what type of bearing?

a) Spherical type

b) Plain bearing

c) **CTRB**

d) None of the above

1189.Radial clearance of SKF roller bearing is –

a) 0.105 to 0.296 mm

b) 0.080 to 0.185 mm

c) 0.080 to 0.190 mm

d) 0.120 to 0.200 mm

1190.Radial clearance of NBC roller bearing is –

a) 0.105 to 0.296 mm

b) 0.080 to 0.185 mm

c) 0.080 to 0.190 mm

d) 0.120 to 0.200 mm

1191.What type of roller bearing is fitted in ICF bogie wheel?

a) Single row self align spherical roller bearing.

b) Double row self align cylindrical roller bearing.

c) Double row self align spherical roller bearing.

d) Single row self align cylindrical roller bearing.

ALARM CHAIN APPARATUS

1192.In air brake coach, PEAV & PEASD is connected to branch pipe is –

(a) FP

(b) BP

(c) BC

(d) DV

1193.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

1194.On application of pulling force of 6.4 kg, the alarm chain should be –

a) Work

b) Not work

c) None of the above

1195.Manually operated pilot vent valve is –

a) PEASD

- b) PEAV
- c) ACP
- d) PEAMTD

1196. What is the diameter of control pipe attached from PEASD to PEAV?

- a) 15.0 mm
- b) 10.0 mm**
- c) 20.0 mm
- d) 25.0 mm

1197. What is the choke size of PEAV is -

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

1198. 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

1199. Passenger emergency alarm signal device are mounted on the –

- a) Under frame
- b) side panel
- c) end wall**
- d) Roof panel

1200. At what schedule, the over hauling and testing of alarm chain apparatus is –

- a) 'A' schedule
- b) 'B' schedules**
- c) 'C' schedule
- d) Special schedule

1201. The full name of PEAV is –

- a) Power energy valve
- b) Passenger entrance valve
- c) Passenger emergency alarm valve**
- d) Pipe emergency valve

1202. The full name of ACP is –

- a) Air condition pipe
- b) Air cooler pipe
- c) Alarm chain-pulling**
- d) Air cylinder piston

1203. After ACP, it is reset and brakes are released by-

- a) DV quick released valve
- b) ISO lasting handle
- c) PEAV**
- d) PEASD

1204. The pulling force required for alarm chain application should be more than –

- a) 7 –15 kg
- b) 7 –10 kg**
- c) 7 –12 kg
- d) 7 –18 kg

1205. In alarm chain, the pull applied vertically downward a drop of vacuum to the extent of –

- a) 110 mm to 130 mm
- b) 130 mm to 180 mm**
- c) 140 mm to 170 mm
- d) 150 mm to 200 mm

1206. What shall be the periodical overhauling of the alarm signal apparatus for each coach?

- a) Every one month
- b) Every three month.**
- c) Every six month
- d) Every one year

1207. In vacuum brake, what shall be period of testing alarm chain signal apparatus?

- a) Every trip primary/ secondary maintenance.**
- b) Every 'A' schedule.
- c) After 15 days±3 days
- d) None of the above

1208. The full name of PEASD is –

- a) Passenger emergency alarm shut down
- b) Passenger emergency alarm signal device**

- c) Passenger entrance admission signal device
- d) Passenger emergency admission signal device

1209. 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

VANDE BHARAT EXPRESS

1210. Who designed the VB exp...

- a) ICF
- b) **RDSO.**
- c) IR
- d) Indian govt

1211. In which production Unit the VB exp mfg

- a) RCF
- b) MCF
- c) **ICF.**
- d) Germany

1212. What is axle Capacity / Load of train set v:2.0?

- a) **17T**
- b) 21T
- c) 16.25T
- d) 13T

1213. Tran set Coaches are equipped with

- a) Bolster Bogie
- b) **Bolster. - Less design Bogies**
- c) Bolster with Side beer.
- d) None of the above

1214. Length of Car body (over. Coupler).

- a) 23345 mm
- b) **24.000 mm**
- c) 22337mm.
- d) 21337mm

1215. Length of coach over End Wall of VB.

- a) 24100 mm.
- b) **23100 mm**

- c) 22310 mm.
 - d) 24000 mm.
1216. What's new wheel. Dia of VB.
- a) 915 mm
 - b) 825mm
 - c) **952 mm**
 - d) 896mm
1217. Condemned wheel dia of VB Express
- a) 896 mm
 - b) 825 mm.
 - c) 855mm
 - d) **877mm**
1218. Least Wheel profile in VB Express
- a) **896 mm**
 - b) 877mm.
 - c) 857mm
 - d) 837mm
1219. Bogie wheel base of VB. Exp.
- a) 2400 mm
 - b) **2700 mm.**
 - c) 2896mm.
 - d) 2560mm
1220. Riding index of VB Express at 180 Kmph.
- a) 2.5
 - b) **3.26**
 - c) 3.33
 - d) 3.5
1221. Maximum Service Speed of VB.
- a) 200 Kmph
 - b) 180 Kmph
 - c) **160 Kmph**
 - d) 130 Kmph
1222. Axle diameter of MC (Motor Coach) & TC (Travel Car)
- a) **179 & 160 mm**
 - b) 53 & 163mm
 - c) 170 & 160mm.
 - d) 169&165mm

1223. Each motor Coach (MC) of VB is equipped with 04 No of _____ Motors..
- a) 3 phase AC Synchronous motor
 - b) 3 phase A.C asynchronous motor (Induction motor)**
 - c) 3 phase Dc service motor.
 - d) 1 Phase Ac motor.
1224. Battery type used in VB Exp.
- a) **Lithium & ion phosphate**
 - b) Nickel metal Hybrid Bolly
 - c) Lead Acid
 - d) Any of the above
1225. Battery capacity Used in VB Exp.
- a) 666.Ah (4X210)
 - b) 684 Ah (3x288)**
 - c) 840Ah (4X210)
 - d) 800Ah (4x200)
1226. which type of pantograph mounted on the roof of trailer Coach of VB Exp.
- a) single arm pantograph model WBL 22.03.**
 - b) Double Arm pantograph model WBL 22.03
 - c) Single Arm pantograph model KTM-5
 - d) Double Arm pantograph model LVS-86
1227. Every Coach has been equipped with
- a) **Parking broke (one per wheel set)**
 - b) Hydraulic broke.
 - c) parking broke (two per Wheel Set)
 - d) None of the above
1228. Seating capacity of passenger to TC (Trailer coach)
- a) 65 passenger
 - b) 78 passenger**
 - c) 44 passenger
 - d) 52 passenger
1229. Seating Capacity for passenger in NDTC (Non Driving trailer Car) (EC).
- a) 65
 - b) 52**
 - c) 44
 - d) 78
1230. Tight lock Centre buffer Couples (CBC) type... AAR-H is provided on the.
- a) Passenger Compartment side of the Coach.

- b) Non Driver Cabin side of the Coach.
- c) Both sides of the Coach.

d) Driver Cabin side of the Coach.

1231. Height of semi-permanent Coupler is

- a) 945 \pm 0.5 mm.
- b) **940 \pm 0.5 mm.**
- c) 945 \pm 5.0 mm
- d) 845 \pm 5 mm.

1232. Abbreviation of ETBU in VB exp..

- a) Emergency traction backup unit.
- b) Emergency train backing unit.
- c) **Emergency talk back unit**
- d) Electronic train Buffering unit.

1233. Capacity of under shung water tank in train set

- a) 1000 Its
- b) **1100 Its**
- c) 1200. Its.
- d) 1300. Its

1234. Each motor coach. (MC.) has.

- a) 1 No of IGBT based line & traction converter (LTC)
- b) **2 No of IGBT based line & traction converter (LTC)**
- c) 3 No of IGBT based line & traction converter (LTC)
- d) 4 No of IGBT based line & traction converter (LTC)

1235. Motoring percentage of VB is

- a) 33%
- b) **50%**
- c) 66%
- d) 100%

1236. Abbreviation of IGBT in VB Exp.

- a) Integrated ground system transistor
- b) **Insulated gate bipolar transistor**
- c) Intelligent generator buffer technology
- d) Integrated gas binary transformer

1237. Abbreviation of TCMS in VB Exp.

- a) Train Crew Management monitoring system
- b) Terminal Communication Management System.
- c) **Train Control Management system.**

- d) Transmission Control Module system.
1238. A Converter is required to generate two Different types of voltage to serve loads those are 1.415 VAC 3 phase, 50 HZ, 2.110 VDC, in VB Exp.
- a) **true**
 - b) falls
 - c) None of these
1239. In the formation of a 16 coach VB Exp train there are
- a) 32 Bogies (20 in for bogie + 12 Trailer bogie)
 - b) **32 Bogies C16 motor bogies + 16 Trailer bogie).**
 - c) 3.2 Bogies (12 motor bogies + 20 Trailer bogie)
 - d) 16 Bogies (08 motor bogies + 08 Trailer bogie).
1240. In the formation of a 16 coach VB train, there are
- a) **2DTC + 2NDTC + 4TC + 8MC**
 - b) 2 DTC + 2N9TC + STC + 4 MC.
 - c) 4 DTC + 4NDTC + 4TC + 4 MC...
 - d) 1 DTC + 3 NDTC + 6TC + 6MC...
1241. Provision on DTC bogie for TCAS (Train Collision Avoidance System) / TPWS (Train Protection Warning System) is known as
- a) **KAVACH**
 - b) SAFE GUARD
 - c) GUARDIAN.
 - d) PROTECTOR
1242. The weight of the Centre pivot pin in VB bogie
- a) 100 kg
 - b) **113 kg.**
 - c) 125 kg.
 - d) 150 kg
1243. Which brake system used in Vande Bharath Express for all Coaches.
- a) Axle mounted Disc brake system.
 - b) Bogie mounted brake system
 - c) **wheel mounted disc brake system.**
 - d) Any of the above.
1244. Bearing provision in all VB Coaches.
- a) Spherical Roller Bearing
 - b) plain Roller Bearing
 - c) **Cartridge Taper Roller Bearing (CTRB).**
 - d) Cylindrical Bearing

1245. Air Spring Height (with air) in VB exp
- a) 305 \pm 5 mm
 - b) 294 \pm 0 MM
 - c) 305 \pm 0 mm
 - d) **300 \pm 5 mm**
1246. VB Couches are equipped.... with
- a) Green Toilet.
 - b) BIO-Toilets.
 - c) **Vacuum BIO-Toilets**
 - d) E-Toilets
1247. The Cooling System for line Converters and Traction Converters to VB train
- a) **Liquid Cooling.**
 - b) Air Cooling
 - c) Water Cooling.
 - d) Any of the above.
1248. The Abbreviation of 'BECU' is in VB exp..
- a) Brake electrical Control Unit.
 - b) **Brake electronic Control unit**
 - c) Basic Engine Control unit
 - d) Battery energy Control unit
1249. The abbreviation of VVVF is VB exp.
- a) ventilated voltage Variable Frequency
 - b) voltage ventilation Variable Frequency
 - c) variable variable voltage Frequency.
 - d) **Variable voltage Variable frequency.**
1250. What is VB exp.
- a) A High speed Electric train.
 - b) **A Semi high speed train operated by Indian Railways**
 - c) A Bullet train operated by Indian Railways.
 - d) A Luxury Cruise liner
1251. When was train 18 renamed as VB exp (Piyush Goel).
- a) **27 JAN-2019.**
 - b) 15 FEB 2019.
 - c) 1 MAR - 2019.
 - d) 1 APRIL 2019.
1252. What is the appx Cost of a 16 - coach VB exp.
- a) Rs 150 crs.

- b) Rs 125 crs..
 - c) **Rs 115 Crs.**
 - d) Rs 100 Crs
1253. The First VB exp Run between...
- a) Mumbai and pune..
 - b) Kolkata and Chennai.
 - c) **New Delhi and Varanasi**
 - d) New Delhi and Bhopal.
1254. When did the First VB exp Run...
- a) 15 JAN 2019
 - b) **15 FEB. 2019.**
 - c) 15 MACH 2019.
 - d) 15 APRL 2019..
1255. What was the VB exp train formerly known as
- a) Tejas exp
 - b) Gathiman exp
 - c) **Train 18**
 - d) Shatabdi exp.
1256. What was the goal behind the design of VB exp....
- a) To create Luxurious train for tourist
 - b) To Standardize train design and specification.
 - c) To Create the Faster train in India
 - d) **To Reduce the cost of maintenance and operation**
1257. Height of CBC AAR-H type on Drives end from rail level
- a) 1100 +0/-5 m
 - b) **1105 +10 mm.**
 - c) 1105 +5mm
 - d) 1100 +5 mm.
1258. What is the switch activation time for opening of the automatic plug door on VB train
- a) 1-2 See
 - b) **3-5sec**
 - c) 6-8 sec
 - d) 9-10 sec.
1259. What is the raising and lowering time of a pantograph of a VB train.
- a) 1-2see
 - b) 3-5sec..

- c) **6-10 sec**
 - d) 12-15 sec
1260. which type of draft gear is used in VB exp.
- a) Buffer draft gear.
 - b) Centre pivot draft gear.
 - c) **Balanced draft gear.**
 - d) Hydraulic draft gear
1261. What is the length of a 16-car VB train. (16x24).
- a) 256 Mtrs.
 - b) 312 Mtrs
 - c) **384 Mtrs**
 - d) 420 Mtrs
1262. In VB train System_____ used to measurement of air spring pressure to meet requirement of Acceleration, braking and deflection of Air spring
- a) **Load Weighing system (LDV).**
 - b) Load sensing device system (LSD)
 - c) Empty load box system (ELB)
 - d) Automatic pressure monitoring system (APM)
1263. which type of air Compressor has been fitted in VB coach
- a) **A piston type oil free, two stage, 3 cylinder air. compressor**
 - b) A piston type oil free, Single stage, 2 cylinder air. compressor
 - c) A piston type oil free, single stage, 3 cylinder air. compressor
 - d) A piston type oil free, two stage, 2 cylinder air. compressor
1264. What is the pressure setting for the air brake system of VB Coach Comprising MR (Main reservoir) and Bp
- a) **MR Pressure is 8.5 ± 0.1 kg/cm² to 10.0 ± 0.1 kg/cm²- & BP Pressure 5.0 ± 0.1 Kg/cm²**
 - b) MR Pressure is 8.5 ± 0.1 kg/cm² to 10.0 ± 0.1 kg/cm²- & BP Pressure 6.0 ± 0.1 Kg/cm²
 - c) MR Pressure is 8.5 ± 0.1 kg/cm² to 10.0 ± 0.1 kg/cm²- & BP Pressure 4.0 ± 0.1 Kg/cm²
 - d) MR Pressure is 8.5 ± 0.1 kg/cm² to 10.0 ± 0.1 kg/cm²- & BP Pressure 8.0 ± 0.1 Kg/cm²
1265. Brake System of VB exp Comprise in the following type brake
- a) EP microprocessor - Controlled friction Service. brake
 - b) Electric regenerative Service brake..
 - c) Fail safe, EP friction Emergency brake.

d) Spring applied air-release parking brake.

e) All the above.

1266. What is the Nominal Supply Voltage of OHE in VB exp

a) 15KV (RMS), 60 Hz, single phase, AC.

b) 25 KV (RMS), 50 HZ, three phase, AC.

c) 25 KV RMS), 6.0 HZ, single phase, AC

d) 25 KV (RMS), 50 HZ single phase, AC.

1267. parking brake release Switch enable When MR pressure reached to

a) **3.5 kg/cm²**

b) 4.5 kg/cm²

c) 5.0 kg/cm²

d) 6.0 kg/cm²

1268. Emergency braking distance of VB exp when train at 160 KMPH.

a) 850 M.

b) 900 M.

c) **1250 m.**

d) 1800 m

1269. The maximum time for a Service brake application is

a) **2.0 sec.**

b) 3 to 5 sec

c) 10 sec

d) 8 to 10 sec

1270. Maximum time for a emergency brake application is

a) 2.0 sec

b) 3 to 5 sec

c) **1.5sec**

d) 8 to 10 sec

1271. The release time of service & emergency brake application is

a) **2.5 sec**

b) 3 to 5 sec

c) 1.5 sec

d) 8 to 10 sec

1272. What type of wheels are used in the bogie of VB train

a) Cast wheel

b) forged wheel

c) spoked wheel

d) high speed wheel

1273. Seating capacity of DTC

- a) **44**
- b) 78
- c) 52
- d) 65

1274. Seating capacity of NDTC

- (a) 44
- (b) 78
- (c) 52**
- (d) 65

1275. Seating capacity of MC

- (a) 44
- (b) 78**
- (c) 52
- (d) 65

1276. Seating capacity of TC

- a) **78**
- b) 44
- c) 52
- d) 65

1277. Coach length over body. Of VB Exp

- a) **23100 mm**
- b) 24000 mm
- c) 23540 mm
- d) None of the above

1278. Coach width over body of VB Exp

- a) **3240 mm**
- b) 3245 mm
- c) 3250 mm
- d) 3255 mm

1279. Bogie wheel base of VB Exp

- a) **2700 mm**
- b) 2560 mm
- c) 2896 mm
- d) 2000 mm

1280. Axle load of VB Exp

- a) **17.0 T**

- b) 16.25 T
- c) 20.3 T
- d) 22.9 T

1281. New Wheel diameter of VB Exp

- a) **952+0.5 mm**
- b) 1000+0.5 mm
- c) 915+0.5 mm
- d) 840+0.5 mm

1282. Last shop dia of VB Express wheel

- a) **896 mm**
- b) 877 mm
- c) 956 mm
- d) 952 mm

1283. Condemned size of VB Exp

- a) **877mm**
- b) 896 mm
- c) 952 mm
- d) 956 mm

1284. Bogie length of VB Exp

- a) **4308mm**
- b) 2896 mm
- c) 2560 mm
- d) 3300 mm

1285. Bogie width of VB Exp

- a) **2907mm**
- b) 3000 mm
- c) 2896 mm
- d) 3300 mm

1286. Depot examination

- a) **A. 6 hrs**
- b) 8 hrs
- c) 5 hrs
- d) 4 hrs

1287. Monthly schedule for VB Exp

- a) **30 days +2 days – 6 hrs**
- b) 15 days + 2 days
- c) 60 days + 2 days

- d) 45 days + 2 days
1288. Quarterly schedule for VB Express
- a) **90 days +3 days – 8 hrs**
 - b) 15 days + 2 days
 - c) 60 days + 2 days
 - d) 45 days + 2 days
1289. 9 monthly schedule for VB Express
- a) **270 days +5 days – 1 day**
 - b) 15 days + 2 days
 - c) 60 days + 2 days
 - d) 45 days + 2 days
1290. SS1 schedule for VB Express
- a) **18 months +2 days – 15 to 20 days**
 - b) 09 months +2 days – 15 to 20 days
 - c) 36 months +2 days – 15 to 20 days
 - d) 72 months +2 days – 15 to 20 days
1291. SS2 schedule for VB Express
- a) **36 months + 5 days**
 - b) 18 months + 5 days
 - c) 09 months + 5 days
 - d) 72 months + 5 days
1292. SS3 schedule for VB Express is
- a) **72 months + 5 days**
 - b) 36 months + 5 days
 - c) 18 months + 5 days
 - d) 09 months + 5 days

STORES

1293. The items which are required frequently 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
1294. 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

1295. Money allotted for purchase of stock item is called

a) purchase money

b) purchase balance money

c) purchase suspense

d) purchase grant

1296. which form, materials not required are returned to the nominated stores depot as per the stores code ?

a) S - 1539

b) S - 1739

c) S - 1549

d) SS – 11

1297. Form S-1539 / Advice note for return stores is called as...?

a) DS-8

b) Issue note

c) Receipt note

d) None of the above

1298. which form, is used for combined requisition-cum-issue note?

a) S - 1539

b) S - 1739

c) S - 1313

d) SS – 11

1299. Recoupment schedule for Imprest stores is prepared in from no ____?

a) S - 1830

b) S - 1739

c) S - 1313

d) SS – 11

1300. Separate requisition form for non stock indents ?

a) S - 1539

b) S - 1302

c) S - 1313

d) SS – 11

1301. The store items are codified in ----- digit number

a) 10

b) 08

c) 05

d) 12

1302. Under which of following group, C&W parts are listed

a) 00-08

b) 10-19

c) 21-28

d) 30-39

1303. In PL no 21074119, what does 9 indicates?

(a) Major headings

(b) Subgroups

(c) Minor groups

(d) Check digit

1304. In PL no 21074119, what does 21 indicates?

(a) Major group

(b) Subgroups

(c) Minor groups

(d) Check digit

1305. In PL no 21074119, what does 07 indicates?

(a) Major headings

(b) Subgroups

(c) Minor groups

(d) Check digit

1306. In PL no 21074119, what does 411 indicates?

(a) Major headings

(b) Subgroups

(c) Serial number

(d) Check digit

1307. First two digits in any price list No represent

a) Part number

b) Specification number

c) Drawing number

d) Group number

1308. Unified PLs reduce the possibility of

a) Duplicate PL No's

b) Non-Uniformity over Indian railways

c) Non-Standardization of items

d) All the above

1309. 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

1310. Which of the following is the source of material in Railways?

(a) Indigenous purchase

(b) Imports

(c) Loan of stores for mother Railways

(d) All of these

1311. Which of the following is called inventory?

(a) Finished Goods

(b) Raw Materials

(c) Scrap

d) All of these

1312. What is certified in propriety article certificate?

(a) No other brand is suitable

(b) The is only firm that is manufacturing /stocking the item

(c) A similar articles is not manufactured/sold by any other firm which could be used in lieu

(d) All of these

1313. Which of the following methods is used for scrap disposal ?

(a) By auction

(b) Through tender

(c) Through direct sale

(d) All of these

1314. Dead stocks should be verified after?

- (a) Five years
- (b) Three years
- (c) One year**
- (d) Six months

1315. Who verifies the stock?

- (a) ACOS
- (b) inspector of store department
- (c) Account clerk
- (d) stock verifier**

1316. Stock verification sheet in form _____

- a) S - 1539
- b) S - 1260**
- c) S - 1313
- d) SS - 11

1317. The stock of Imprest stores are verified after every.....

- (a) Six months
- (b) Two years**
- (c) One year
- (d) None of these

1318. What is the frequency of verification of Tools and Plant items by accounts.?

- a) once in a year
- b) once in two years
- c) once in three years**
- d) once in six months

1319. 'A' Category items are verified in

- a) once in a year**
- b) once in two years
- c) once in three years
- d) once in six months

1320. M&P Items are verified in

- a) once in a year
- b) once in two years
- c) once in three years**
- d) once in six months

1321. Which of the following items need not to be Stock verified ...?

- a) Dunnage
- b) Petty consumable stores
- c) Dead stock , tools & plants of low value

d) All of the above

1322. Surplus items are?

- a) Items not moved for 12 months
- b) Items not moved for 24 months**
- c) Items having more than 12 months
- d) None of these

1323. 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 in stock
- (c) Deficiency in stock

(d) All of these

1324. 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

1325. Full form of 'IMMS'

- a) Integrated material management system**
- b) Integrated man management system
- c) Integrated material and manning system
- d) None of these

1326. Full form of 'IREPS'

- a) Indian railways E-Procurement system**
- b) Indian railways E-Pay system
- c) Indian railways E-Pass system
- d) Indian railways E- Pay roll system

1327. Full form of 'UDM'

- a) User depot module**
- b) User division module
- c) Under depot module

d) Under division module

1328. Full form of 'GeM'

a) Government e-market

b) Government electrical market

c) Government engineering market

d) none of the above

1329. Full form of 'PAC'

a) proprietary article certificate

b) possible article certificate

c) proprietary art certificate

d) preferable article certificate

1330. Which of the 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 turn over & financial solvency

(c) Technical ability of firm

(d) All of these

1331. Which of the following is not the type of tender

(a) Open Tender

(b) Limited tender

(c) Single Tender

(d) None of these

1332. Single tender is invited when

(a) There is only one known manufacturer

(b) The work is of highly technical /specialized in nature

(c) There is accident

(d) All of these

1333. The items which have not been issued for past two years and are not likely to be used within the next two years, are known as ?

(a) Surplus store

(b) Movable surplus store

(c) Dead surplus store

(d) None of these

1334.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

1335.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 witch cannot before seen
- (d) All of these**

1336.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**

1337.Passenger amenities in coaches can be classified as item

- (a) Vital
- (b) Essential
- (c) Desirable**
- (d) Non moving

1338.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**

1339.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

ESTABLISHMENT

1340. Which of the following statements do bear the title of Discipline and Appeals Rule in Railways?

- a) The Discipline and Appeal Rules, 1968
- b) The Discipline and Appeal Rules, 1966
- c) The Railway Servants (Discipline and Appeal) Rules, 1968**
- d) None of these

1341. What is the current date from which the Railway Servants (D&A) Rules, 1968 came into force?

- (a) On the first day of January, 1968
- (b) On the 22nd day of August, 1968
- (c) On the first day of October, 1968**
- (d) None of these

1342. Which No. of standard form is used for issuance of Major penalty charge sheet on disciplinary proceedings?

- (a) SF-11
- (b) SF-5
- (c) SF-5**
- (d) None of these

1343. Where appointing authority are not available who should be treated as appointing authority?

- (a) Controlling Officer
- (b) DRM
- (c) GM**
- (d) CPO

1344. Disciplinary Authority while passing orders for imposing a penalty should invariably pass?

- (a) Orders for penalty
- (b) Speaking order**
- (c) Oral orders
- (d) None

1345. Who is the competent authority to make rule on RS (D&A) Rules?

- (a) **President of India**
- (b) Ministry of Railways
- (c) Member(Staff)
- (d) Secretary Rly. Bd.

1346. When casual labors can be governed under the Railway disciplinary rules?

- (a) After 4 months from engagement date
- (b) After 6 months from engagement date
- (c) **After attaining temporary status**
- (d) After regular absorption

1347. Recognized Trade Union official can be allowed to act as defense counsel in DAR cases in ?

- a) 2 Nos. of cases
- b) 3 Nos. of cases**
- c) 5 Nos. of cases
- d) Any number of cases

1348. Whether the disciplinary cases initiated against a Rly. Servant and RS(D&A) Rules, subsequently he is expired his case should be

- a) Continue and finalized
- b) Sent to Rly. Board
- c) Sent to GM
- d) Closed**

1349. What would be correct procedure when a faulty charge-sheet requires modification/addition ?

- a) Canceling the earlier C/sheet with reasons**
- b) Without canceling a fresh C/sheet may be issued
- c) Continue the proceedings
- d) None of these

1350. Which of the standard form is required to be used for issuing the order of deemed suspension?

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

1351. How many Annexure are attached with major penalty charge memorandum?

(a)2

(b)3

(c)5

(d)4

1352.A Rly. Servant punished with stoppage of increment simultaneously is going promotion to the next grade. The penalty will give effect to the

(a) Promotion of the grade for same period

(b) But not result in greater monetary loss

(c) Retrospective effect

(d) No effect

1353.A person appointed directly to a post grade or time scale of pay can be reduced by way of punishment to a post in lower scale/grade service or to a post which he never held before

(a) Yes

(b) No

(c) Can be reduced but his pay to be protected

(d) None

1354.An acting Rly. Servant can be allowed to act as Defense counsel at time?

a) 2 No. of cases

b) 3 No. of cases

c) 4 No. of cases

d) 5 No. of cases

1355.For how many cases can a retired Railway employee act as a defense assistant at time?

(a)5

(b)7

(c)3

(d)4

1356.Which deduction from subsistence allowance cannot be made?

(a) House Rent

(b) P.F. subscription

(c) Income Tax

(d) None

1357.Which of the following deduction is prohibited from subsistence allowance?

- (a) House Rent
- (b) Income Tax
- (c) **Court attachment**
- (d) Station debits

1358. Suspension is not a punishment. However suspension visits employee with various disadvantages. Which one of the following is not a disadvantage as a consequence of suspension?

- (a) During the period he cannot leave Hq. Without permission
- (b) **He need not to sign attendance register**
- (c) Privilege passes cannot be availed
- (d) No increment is drawn during suspension

1359. When a Rly. Employee placed under suspension but only a minor penalty is imposed, the treatment of the suspension period is as

- (a) Dies on
- (b) Non duty
- (c) **Duty**
- (d) None

1360. If an employee is placed under suspension on the date of retirement, under who is competent to sign the charge sheet?

- (a) Charge sheet shall be signed by the Rly. Bd.
- (b) Charge sheet shall be signed by the GM
- (c) **Charge sheet shall be signed by the Disciplinary authority as on the date of retirement**
- (d) President of India

1361. A Railway servant under suspension is entitled to

- (a) Leave his head qrs
- (b) Have passes for attending PNM/JCM
- (c) **Act as defense counsel**
- (d) None

1362. An employee under suspension can be called to appear at a written examination required for selection to the promotion?

- (a) **May be called to appear during suspension**
- (b) May be called after suspension is over
- (c) To be decided by the Disciplinary Authority.

(d) None of these

1363. Compassionate allowance in case of removed employee may be granted under

(a) Rule 20 of pension rules, 1993

(b) Rule 64 of pension rules, 1993

(c) **Rule 65 of pension rules, 1993**

(d) None

1364. An employee under suspension, when he reports sick, is he eligible for grant of sick leave?

(a) Grant of sick leave

(b) Grant of extraordinary leave

(c) Grant of Half pay leave

(d) **Not grant of sick leave**

1365. How many types of standard forms that are used while initiating action against any Railway employee under D&A Rules, 1968.

(a) One

(b) Five

(c) **Eleven**

(d) Seven

1366. A Rly. Servant punishment with stoppage of increment for a specified period and becomes due for promotion he should be promoted

(a) **Immediate effect**

(b) After expiry of the penalty

(c) With the approval of GM

(d) Cannot be promoted

1367. A Railway servant shall be deemed to have been placed under suspension if he has been put in police custody for a period?

(a) exceeding 24 hours

(b) **exceeding 48 hours**

(c) immediate effect

(d) none

1368. When an employee under suspension is acquitted by a court of law?

(a) **Full pay and allowance are granted**

(b) Half pay and allowance for granted

(c) 75% pay and allowance are granted

(d) No payment

1369. Compulsory deduction from subsistence allowance?

(a) PF subscription

(b) LIC premium

(c) **House rent**

(d) Court attachment

1370. 'Gr C' and 'Gr. D' employees under suspension may be given

(a) 3 sets of pass per calendar year

(b) 2 sets of pass

(c) **one set of pass**

(d) None of these

1371. Can a railway servant placed under suspension act as a defense helper?

(a) **A Railway servant act as a defense helper**

(b) Decided by Disciplinary Authority

(c) Decided by GM

(d) Decided by DRM

1372. Inquiry is not mandatory under Rule

(a) Rule 5

(b) **Rule 1**

(c) Rule (13)

(d) None

1373. D&A Rules 1968 will not apply to

(a) Permanent employee

(b) **Apprentice**

(c) Casual labour with temporary status

(d) None

1374. Inquiry officer's report is to be supplied to

(a) Presenting officer

(b) **Controlling officer**

(c) Charged officer

(d) None

1375. The notice of final penalty should be signed by

(a) Enquiry officer

(b) Controlling officer

(c) **Disciplinary authority**

(d) None

1376.What would be appropriate disciplinary authority when staff working under the administrative control of DME and misconduct pertains to violations of Commercial rule or safety rules?

(a) DCM/Sr.DCM

(b) DSO/Sr.DSO

(c) **DME/Sr.DME**

(d) DPO/Sr.DPO

1377.All DAR cases are to be completed within the model time scheduled fixed by the Rly. Board.

(a)202 days

(b)300days

(c)**150days**

(d) not specified

1378.Under which Rule of the R.S.(D&A) Rules, 1968 the appellate authority can act as revising authority?

(a) **Rule-25**

(b) Rule -25A

(c) Rule-22

(d) Rule-21

1379.A charged employee has a choice for choosing an Assistant Railway employee as defense counselor. However certain classes of employees are barred as DC's which one of the following classes are barred?

(a) Vigilance inspector

(b) Law Assistant

(c) Railway servants under suspension

(d) **None of the above**

1380.Reappointment of Railway employee in cases of removal from service may be considered by the

(a) Revising authority

(b) Disciplinary authority

(c) **Higher than the Revising authority**

(d) None of the these

1381.Reduction to a lower stage in a time scale of pay for a period not exceeding 3 years without cumulative effect and not adversely affecting his pension is

- (a) Major penalty
- (b) Minor penalty**
- (c) None
- (d) Both of these

1382.Penalty of compulsory retirement, removal or dismissed from service should be imposed only by ?

- (a) controlling officer
- (b) disciplinary authority
- (c) appointing authority**
- (d) none

1383.The following are not in penalty under D&A Rules?

- (a) Censure
- (b) Warning**
- (c) Stoppage of pass
- (d) The recovery from pay of any pecuniary loss

1384.Whether officers on ad-hoc promotion are competent to initiate disciplinary proceedings?

- a) YES
- b) NO**
- c) Depends on case intensity
- d) None of the above .

1385. Which penalty is not recorded in the service sheet?

- a) Stoppage of increment
- b) Stoppage of passes
- c) Warning**
- d) Censure

1386. Whether issuance of inquiry or counseling or Govt. Displeasure can constitute a penalty under D&A Rule?

- a) Is a penalty under D&A Rules
- b) Is not a penalty under D&A Rules**
- c) All are penalty under D&A Rule
- d) None of these

1387. Can a disciplinary authority order for stoppage of increment under Rule 6 of the R.S.(D&A) Rules, 1968 effecting from the date of issuance of order or from date of next increment due.

(a) Yes

(b) No

(c) Not specified

d) None of these

1388. What is the permissible time limit for preferring a revision petition to the revising Authority?

a) 60days

b) 45days

c) 90days

d) none

1389. Under which circumstances 'ex-parte' inquiry can be held?

a) Charged official does not appear before I.O. for more than two occasions

b) Presenting Officer not appear before IO

c) Disciplinary Authority not appear before IO

d) None of these.

1390. During the pendency of a penalty of stoppage of pass/PTO whether promotion of a Railway staff will be affected.

a) promotion will be affected

b) promotion will not be affected

c) promotion will effect after expiry of punishment

d) none of these

1391. When it is not practical to hold any inquiry under Rule 9 of the Railway servants (D&A) Rules, whether removal/dismissal can be directly ordered?

a) Rule6

b) Rule14(ii)

c) Rule13

d) None

1392. Is it necessary the Inquiry Officer should be sufficiently senior in rank to the charged official?

a) Always IO should be senior

- b) IO may be junior
- c) IO may be equal in rank with CE
- d) None of these

1393. Who can exercise reversionary power when no appeal has been preferred in terms of Rule 25 (i) (iv)?

- a) The officer not below the rank of DRM**
- b) The officer not below the rank of JA officer
- c) The officer not below the rank of PHOD
- d) None of the above

1394. 1160. Whether it is obligatory of the inquiry officer to inform defense counsel engaged by the charged official in each hearing?

- a) IO should inform DC**
- b) IO should not inform DC
- c) DA should inform DC
- d) None of these

1395. How many Rules, the Railway Servants (D&A) Rules, do contain and how many parts are they divided.

- a) 31 Rule in IV parts
- b) 25 Rule in VI parts
- c) 31 Rule in VII parts**
- d) Not at all divided

1396. Which of the following is not termed as penalty under DAR 1968?

- a) Censure
- b) Withdrawing of promotion
- c) Suspension**
- d) None

1397. Who is the competent authority to consider the appeal without restriction of time limit?

- (a) PHOD
- (b) GM**
- (c) DRM
- d) HOD

1398. Which authority can imposed cut in pensioner benefit ?

- (a)GM

(b) Rly. Board

c) President of India

(d) None

1399. Whether Revision/Review of cases already finalized before retirement of the Railway employees can be initiated after his retirement with a view to impose a cut in his pensioner benefits?

a) Can be initiated.

b) Cannot be initiated.

c) Can be initiated with the approval of GM

d) None of these.

1400. Whether The Railway servants (D&A) Rules, 1968 are applicable to constable of the Railway protection force?

a) Applicable .

b) Not applicable

c) Applicable in certain cases

d) None of these

1401. What is Rule 14(II) of the RS(D&A) Rules, 1968.

a) Removal / Dismissal after an SF 5 is issued.

b) Removal / Dismissal without any inquiry when it is not practicable to hold inquiry in a normal manner.

c) Compulsory retirement without any inquiry.

d) Removal / Dismissal in case of conviction.

1402. After retirement a charge sheet can be issued only by the

a) GM

b) Controlling officer

c) President of India

d) Chief Personnel Officer Justice of Supreme Court

1403. When inquiry is not necessary?

a) Charges admitted by CE

b) Charges not admitted by CO

c) Charges prepared by DA

d) None of these

PASS RULES

1404. What is Pass?

- a) Pass is a Privilege.
- b) To travel in Railway
- c) An authority given by Railway to a Railway employee or to a Person authorizing him to travel in a train gratuitously.**
- d) None of these.

1405. In connection with Privilege pass Family means.

a)Wife, Husband, Son/Step sons under the age of 21 years and wholly Dependent. Bonfire student of any recognized University. Unmarried daughter of any age whether earning or not, dependent widow daughter. Railway Doctor's certified invalid son daughter of any age.

b)Wife, Husband, son/Step son/Son-in-law/mother-in-law/daughter of any age.

(c)Husband, Wife/Widow mother/son/Step son of any age/Daughter of any age.

(d)Husband/Wife/Sons/Daughters of any age/Mother-in-law, if father is not alive.

1406. How many sets of P.T.O. issued to the Railway employees?

a)6 sets both for Gazetted and Non-Gazetted every year from the date of appointment.

b)4 sets both for Gazetted and Non-Gazetted every year from the date of appointment.

c)3 sets both for Gazetted and Non-Gazetted every year from the date of appointment.

d)6 sets for Gazetted and 4 sets for Non-Gazetted.

1407. How many sets of School Pass issued to Railway employee?

(a)6 sets per year.

(b)4 sets per year

(c)3 sets per year

(d)5 sets per year.

1408. Maximum validity for a Privilege Pass?

a) 3months(Half-set)

b) 4 months(Full-set)

c) 2months(Half-set)

d) 5 months (Full-set)

1409. Attendants of Pass Holder is:-

(a)Part time servant.

(b)Servant

(c) Full time paid servant

(d) Any person.

1410. Maximum berths given for Reservation to Railway Officer on duty?

a) 6 berths

b) 4 berths

c) 3 berths

d) 2 berths

1411. When Higher Class Pass issued

(a) On medical ground.

(b) On Scouts & Guide

(c) None of these

(d) Cultural functions

1412. Penalties for loss of 2nd Class Duty pass

a) Rs.35/-

b) Rs.10/-

c) Rs.12.50/-

d) Rs.20/-

1413. Penalties for loss of 1st Class Duty pass

a) Rs. 35/-

b) Rs.10/-

c) Rs.12.50/-

d) Rs.20/-

1414. Penalties for loss of trolley pass

a) Rs.35/-

b) Rs.10/-

c) Rs.12.50/-

d) Rs.50/-

1415. Penalties for loss of 2nd Class privilege pass

a) Rs.15/-

b) Rs.10/-

c) Rs.12.50/-

d) Rs.5/-

1416. Penalties for loss of 1st Class privilege pass

a) Rs.35/-

b) Rs.10/-

c) Rs.12.50/-

d) Rs.50/-

1417. Penalties for loss of a School Card Pass/Residential Card Pass. 2nd Class Pass holder

a) Rs.10.50/-

b) Rs.12.50/

c) Rs.13.50/-

d) Rs.14.50/-

1418. Penalties for loss of a School Card Pass/Residential Card Pass. 1st & 1st 'A' Pass holder

a) Rs. 35/-

b) Rs.40/-

c) Rs.45/-

d) Rs.50/-

1419. Issue of Privilege Pass/P.T.Os. are admissible when a staff is on?

(a)Any kind of leave.

(b)Only extra ordinary leave.

(c)Only study leave.

(d)Only special disability leave.

1420. Passes are not admissible over Nilagiri Railway during the month (except Gazetted staff)

(a)January, February, March

(b)April, May, June

(c)July, August, September

(d)October, November, December.

1421. Full form of P.T.O.

(a)Personnel Ticket Order

(b)Permanent Ticket Order

(c)Privilege Ticket Order

(d)Pass & Ticket Order.

1422. Pass/P.T.O. Set means

a) Set means 3 sets of pass per year.

b) Set means 6 sets of pass per year.

c) Set means 3 sets of pass & 6 sets of P.T.O. per year.

d) Set means One set of pass or P.T.O. for Outward and Return journey.

1423. Break journey is not permissible in case of

a) Transfer Pass

b) School Pass

c) Settlement Pass.

d) Post Retd. Complimentary Pass.

1424. 1190. How much Service (minimum) is required for Post Retired Complimentary Pass

a) 20 years

b) 25years

c) 15years

d) 33years

1425. How many break journeys are admissible in Privilege Pass?

a) 6 nos.

b) 7nos.

c) Any number(En-route)

d) 5nos.

1426. On what routes Pass can be issued?

a) Any route.

b) Shortest route & longest route but quicker.

c) Longest route

d) Shortest route with 30% of the longest route.

1427. Irregularity in usage of Passes may be condoned by

a) CPO

b) GM

c) CME

d) COM

1428. How many School Certificates are required for School Card Pass in a year.

a) One in a year

b) Four in a year

c) Two in a year

d) One in whole service life

1429. Split Passes are issued to which Railway Servant?

- a) Only Group 'A' service
- b) All Officers
- c) (c)All Railway Servants (A, B, C& D)**
- d) (d)Only GM/AGM

LEAVE RULES

1430. How many days of LAP in a calendar year, a permanent/ Temporary Railway servant shall be entitled to get?

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

1431. How many days of LHAP in a year, can be credited to an employee?.

- a) 30days
- b) 10days
- c) 20days**
- d) 12days

1432. A female Railway employee shall be entitled to maternity leave for

- a) 135days
- b) 120days
- c) 90 days
- d) 180days**

1433. For miscarriage, including abortion, what period of Maternity leave may be granted?.

- a) 6weeks
- b) 45days**
- c) 7weeks
- d) 43days.

1434. Paternity leave is admissible with less than two surviving children for a period of

- a) 10days
- b) 20days
- c) 15days**
- d) 25 days

1435. Maximum days of leave on average pay that can be accumulated is

- a) 120
- b) 180
- c) 190
- d) 300days**

1436. LAP shall be credited to a Railway servant at the rate of

- a) 2 ½ days per month**
- b) 3 days per month
- c) 2 days per month
- d) 1 ½ days per month

1437. How many days of LHAP can be accumulated to an employee in his service lif

- a) 300days
- b) 450days
- c) 600 days
- d) Unlimited**

1438. A male railway servant may be granted Paternity leave having surviving children

- a) Less than two**
- b) One
- c) Four
- d) Three

1439. Up to what limit, maternity leave may be combined with any kind of leave?

- a) One year**
- b) b)Two years
- c) c)Unlimited
- d) Six months

1440. Which of the following category is entitled for hospital leave?

- a) Group 'A' & 'B'
- b) Group 'C'
- c) Group 'C' & 'D'**
- d) Group 'D'

1441. When no leave is admissible under any other rule, the leave granted is known as

- a) LAP
- b) LHAP
- c) SPL Leave
- d) Extra ordinary leave.**

1442. Maximum encashment of leave on average pay is.....

- a) 200days
- b) 180days
- c) 360 days

d) 300days

1443. Who is the authority to sanction Special Disability Leave?

- a) Senior Scale Officer
- b) J A Grade Officer
- c) DRM

d) ADRM

1444. What is the maximum period of leave on Average pay at time that a Railway servant may be granted?

- a) 120days
- b) 160days
- c) 180days**
- d) 300days

1445. What is the maximum limit of Leave not due that may be granted to a permanent Rly. Servant during his entire service period?

- a) 360days**
- b) 380days
- c) Unlimited
- d) 300 days

1446. Within which period, Paternity Leave can be granted?

- a) Six months**
- b) Three months
- c) Four months
- d) 15days

1447. Special Disability Leave on average pay granted for accident on duty shall not exceed.....

- a) 12 months
- b) 24months**
- c) 36months
- d) 28 months

1448. Paternity leave is also admissible to

- a) Casual Labor
- b) Apprentice**
- c) After completion of 180 days of service
- d) After regular absorption

1449. Staff of which Railway are entitled to avail extra Casual leave?

- a) SER
- b) ECOR
- c) NFR**
- d) ECR

1450. Commuted leave is admissible on

- a) Medical Certificate**
- b) Request of an employee
- c) Discretion of competent authority
- d) None

1451. If a Railway employee applies for a kind of leave say LAP, in advance, the competent authority may.....

- a) Sanction as CL
- b) Sanction as LWP
- c) Refuse to sanction it**
- d) Convert it as commuted leave

1452. A Railway servant shall be granted leave of any kind for a continuous period of not exceeding.....

- a) 3Years
- b) 4years
- c) 5years**
- d) 6 years

1453. How many occasions does a workshop staff be granted half a day's LAP?

- a) 6 occasions**
- b) 10 occasions
- c) 6occasions
- d) 12occasions

1454. Hospital leave granted to a non-Gazetted Rly. Servant should not exceed a total of when combined with other leave

- a) 24 months

b) 26months

c) 28months

d) 18months

1455. What is the maximum limitation of Leave Not Due granted on medical certificate during the entire period of service?

a) 360days

b) 365days

c) 370 days

d) 390days

1456. Maximum of study leave that can be granted to an employee during his entire service period is

a) 36months

b) 28months

c) 24months

d) 30months

1457. Which of the following leave may be granted to a Rly. Servant, Volunteered to donate blood in Govt./Rly. Hospitals for railway employees.

a) Special Casual leave

b) casual leave

c) LAP

d) LHAP

1458. If a railway servant resigns from service during study leave, and it is converted into regular leave as LAP/LHAP leaving balance, such a balance shall be treated as....

a) unauthorized absence

b) Extra ordinary leave

c) Study leave

d) Leave not due

1459. Who is the Authority to grant study leave abroad?

a) Rly. Board

b) GM

c) DRM

d) CPO

1460. Who is the Competent Authority to grant study leave within India?

a) Rly. Board

b) GM

c) DRM/CWM

d) CPO

1461. Who is the Competent Authority to grant study leave for Group 'C' & 'D' categories within India?

a) Rly. Board

b) GM

c) DRM/CWM

1462. What is the Maximum joining time admissible to a Railway Servant?

a) 10 days

b) 12days

c) 15days

d) 16days

1463. Which of the following employee does Special Casual leave is admissible under family welfare scheme?

a) Male employee

b) Female employee

c) Both male & female employee

d) None

1464. Under small family norms a railway employee is entitled to get Special Casual leave up to

a)14days

b)16days

c)20 days

d) 25days

1465. Special Casual Leave is admissible for employees who reside at a place where the date of polling is different from that of place

a) 1 day

b) 2days

c) 3days

d) 4days

1466. Who is the authority to grant Special Casual Leave for Bundh, Curfew or other disturbances?

a)PHOD

b)HOD

c)DRM

d)ADRM

1467. What is the maximum Casual leave admissible in a calendar year for scouting/Sports activities?

a)30days

b)45days

c)15days

d) 25days

1468. If the transfer involves change of station, and the distance between the old and new station is less than 1000 k.ms, how many days of joining time is admissible?

a) Not more than 5 days

b) 10days

c) 12days

d) 15days

ARITHMETIC

1469. $3456 \div 12 \div 8 = ?$

a) 25

b) 36

c) 56

d) 48

1470. $13 \times 252 \div 42 + 170 = ? + 47$

a) 201

b) 345

c) 562

d) 458

1471. Find the average of the following set of numbers:354,281,623,518,447,702,876.

a) 543

b) 542

c) 351

d) 345

1472. The body weight of six boys is recorded as 54kg,64kg, 74kg,67kg, 45kg and 91kg.What is the average body weight of all six boys?

a) 67kg

b) 39kg

c) 66kg

d) 75kg

1473. Find the average of all prime numbers between 30 and 50.

a) 38.6

b) 36

c) 39.8

d) 48

1474. Find the average of first 40 natural numbers.

a) 20.5

b) 32.9

c) 39.8

d) 10.9

1475. A man bought 5 shirts at Rs.450 each, 4 trousers at Rs. 750 each and 12 pairs of shoe at Rs.750 each. What is the average expenditure per article?

a) Rs.543.45

b) Rs.678.57

c) Rs.453.51

d) Rs.134.55

1476. 13 chairs and 5 tables were bought for Rs.8280. If the average cost of a table be Rs.1227, what is the average cost of a chair?

a) Rs.434

b) Rs.325

c) Rs.165

d) Rs.135

1477. The average age of a man and his son is 40 years. The ratio of their ages is 11:5 respectively. What is the son's age?

a) 25years.

b) 34years.

c) 56years

d) 48years

1478. The average monthly expenditure of a family was Rs.2200 during the first 3 months; Rs.2250 during the next 4 months and Rs. 3120 during the last 5 months

of a year. If the total savings during the years were Rs.1260, find the average monthly income of a family.

a) Rs.2705

b) Rs.5300

c) Rs.2124

d) Rs.2708

1479. The average of a class of 39 students is 15 years. If the age of the teacher be included then the average increases by 3 months. Find the age of the teacher.

a) 28years.

b) 34years.

c) 23years

d) 25years

1480. Minis purchased a car for Rs. 2,50,000 and sold it for Rs. 3,48,000. What is the present profit she made on the car?

a) 31.1%

b) 36

c) 39.2%

d) 48%

1481. If C.P.is Rs.2516 and S.P is Rs.2272, find the percentage loss.

9.69%

10%

20.2%

48%

1482. Find S.P, when. C.P=Rs.56.25, Gain =20%.

a) Rs.27

b) 67.50

c) Rs.21

d) Rs.87.09

1483. A gold bracelet is sold for Rs.14500 at a loss of 20%. What is the cost price of the gold bracelet?

a) Rs.27055

b) Rs.23008

c) Rs.12124

d) Rs.18125

1484. The owner of a cell phone charger his customer 23% more than the cost price. If a customer paid Rs. 7011 for a cell phone, then what was the cost price of the phone?

a) Rs.2705

b) Rs.5700

c) Rs.2124

d) Rs.8125

1485. By selling 33 metres of cloth, one gains the selling price of 11 metres. Find the gain percent.

a) 50%

b) 10%

c) 20%

d) 72%

1486. If the manufacturer gains 10%, the wholesale dealer 15% and the retailer 25%, then find the cost of production of a table, the retail price of which is Rs. 1265?

a) Rs.800

b) Rs.230

c) Rs.124

d) Rs.8056

1487. A Tradesman sold an article at a loss of 20%. If the selling price had been increased by Rs.100, there would have been a gain of 5%. What was the cost price of the article?

a) Rs.300

b) Rs.500

c) Rs.600

d) Rs.400

1488. A man sold two flats for Rs.6,75,958 each. On one he gains 16% while on the other he losses 16%. How much does he gain or lose in the Whole transaction?

a) 2.56%

b) 10.5%

c) 1%

d) 17%

1489. A alone can complete a piece of work Rs.300 in 6 days, but by engaging an assistant, the work is completed in 4 days. Find the share to be received by the assistant.

a) 100

b)200

c)300

d)400

1490. A and B under take to do a piece of work for Rs.600. A alone can do it in 6 days while B alone can do it in 8 days. with the help of C, they finish it in 3 days. Find the share of each.

a)Rs.75

b)Rs.50

c)Rs.95

d) Rs.40

1491. A can do a piece of work in 80 days. He work at it for 10 days and then B alone finishes the remaining work in 42 days. In how much time will A and B working together, finish the work?

a)30 days

b) 40 days

c)50 days

d)20 days

1492. A and B can do a piece of work in 45 and 40 days respectively. They began the work together but a leaves after someday and B finished the remaining work in 23days. After how many days did alive?

a)12days

b)9days

c)5days

d)6days

1493. A100-m long train is running at the speed of 30km/hr. Find the time taken by it top as a man standing near the railway line.?

a) 8sec.

b) 10sec.

c) 12sec.

d) 6sec.

1494. A 160-m long train crosses a 160-m long platform in 16 sec. find the speed of the train.

a) 80km/hr

b) 72km/hr

- c) 52.3km/hr
- d) 50.08km/hr

1495. A person standing on a railway platform noticed that a train took 21 seconds to completely pass through the platform which was 84m long and it took 9 seconds in passing him. Find the speed of the train in km/hr.

a)25.2km/hr

- b)50.08km/hr
- c)10.9km/hr
- d)30km/hr

1496. A train travelling with constant speed crosses a 90m long platform in 12 seconds and a 120m long platform in 15 sec. find the length of the train and its speed.

- a)20m,40km/hr
- b)20m,10km/hr
- c)50m,30km/hr
- d) **30m,36km/hr**

1497. A 150-m long train is running with a speed of 68kmph. In what time will it pass a man who is running at 8 Kmph in the same direction in which the train is going?

a)9sec.

- b)10sec.
- c)5sec.
- d) 6sec.

1498. A 220-m long train is running with a speed of 59kmph. In what time will it pass a man who is running at 7kmph in the direction opposite to that in which the train is going?

- a)8sec.
- b)10sec.
- c)12sec.**
- d) 6sec.

1499. Two trains 240 meters and 270 meters in length are running towards each other on parallel lines, one at the rate of 60kmph and another at 48kmph. How much time will they take to cross each other?

a)17sec.

- b)80sec.
- c)12sec.

d) 12sec.

1500. A train 100m long travelling at 60 km/hr passes another train , twice as fast as this train and travelling in opposite direction ,in 10 sec. find the length of the second train.

a)400m

b)300m

c)500m

d) 460m

1501. A man sitting in a train which is travelling at 50kmph observes that a goods train travelling in opposite direction, takes 9 sec to pass him if the goods train is 280m long ,find its speed.

a)62kmph

b)78kmph

c)42kmph

d)25kmph

1502. Find the simple interest on Rs.68000 at $16\frac{2}{3}\%$ per annum for 9 months.

a)6807

b)2458

c)8500

d)9600

1503. Find the simple interest on Rs.3000 at $6\frac{1}{4}\%$ per annum for the period from 4th feb 2009 to 18th April 2009. ?

(a)78.25 Rs

(b)37.50Rs

(c)90.48Rs

(d)50.03Rs

1504. The simple interest accrued on an amount of Rs 2500 at the end of six years is Rs 1875. What would be the simple interest accrued on an amount of Rs 6875 at the same rate and for the same period?

a)5156.25

b)2583.78

c)7894.54

d)3456.25

1505. A sum of Rs 800 amounts to Rs 920 in 3 years at simple interest. If the interest rate is increase by 3% it would amount to how much?

a)829

b)628

c)956

d)992

1506. In a km race, A beats B by 28 meters or 7 sec. then find A's time over the course.

a)5sec b)9sec **c)3sec** d)6sec 1277) A man can row 18 Kmph in still water. it takes him thrice as long to row up as to row down the river. find the rate of stream.

a)9 km/hr

b)2.5km/hr

c)7.6km/hr

d)5km/hr

1507. A can run 1 km in 3 min 10 sec and B can cover the same distance in 3 min 20 sec. By what distance can A beat B?

a)70m

b)80m

c)40m

d)50m

1508. In a 100 m race, A beats B by 25 m and B beats C by 4 m. In the same race, find the distance by which A beats C.

a)40m

b)28m

c)18m

d)40m

1509. Find the H.C.F. of $2^3 \times 3^2 \times 5 \times 7^4$, $2^2 \times 3^5 \times 5^2 \times 7^3$, $2^3 \times 5^3 \times 7^2$.

a)980

b)480

c)810

d)740

1510. Find the H.C.F. of:- 42, 63, and 140?

a)5

b)4

c)4

d) **7**

1511. 1283) Find the L.C.M of 16,24,36 and 54.

a) **432**

b) 470

c) 440

d) 520

Official language Hindi

1512. When was Official language Act 1963 passed ?

a) 10.06.1963

b) 12.06.1963

c) **10.05.1963**

d) 12.05.1963

1513. Who the first chairman of the Official language commission?

a) M Mehta

b) B N Mishra

c) M G Shah

d) **B G Kher**

1514. What is the expansion for OLIC used by Dept. of Official Language ?

a) Official Language of Implementation Center

b) **Official Language Implementation Committee**

c) Official Language Information center

d) Official language information Committee

1515. . From which course a category 'D' employee required to be trained ?

a) **From Prabodh**

b) From Praveen

c) From Pragya

d) From Parangat

1516. Who is the chairman of Parliamentary Official Language Committee ?

a) Minister of Railways

b) **Minister of Home Affairs**

c) Chairman of Official language department

d) Prime Minister

1517. Mention the name of the award to be given for writing original Hindi Books on Technical subject by railway Board ?

a) Lal Bahadur shastri Award

b) Maithili Sharan Gupt Award

c) Premchand Award

d) KamalapatiswarnaPadak Award

1518. Mention the name of the Award to be given for writing story/novel writing in Hindi by Railway Board ?

a) LalBahudurshastri Award

b) Maithili SharanGupt Award

c) Premchand Award

d) KamalapatiswarnaPadak Award

1519. Mention the name of the Award to be given for writing the book of Hindi poems, by the Railway Board ?

a) LalBahudurshastri Award

b) Maithili SharanGupt Award

c) Premchand Award

d) KamalapatiswarnaPadak Award

1520. Who is the Chairman of Rail Hindi Salahkar Committee ?

a) Minister of Railways

b) Minister of Home Home Affairs

c) Chaiman of Official language department

d) Prime Minister

1521. What is the Official Language of Union of India?

a) Hindi in Rajnagari Script

b) Hindi in Devnagari Script

c) Hindi in Divenagari Script

d) Hindi in Devinagaree Script

1522. When is "Hindi Day" celebrated every year?

a) November 13th

b) February 14th

c) September14th

d) October 13th

1523. What is the Official Language of Arunachal Pradesh?

a) Hindi

b) Santali

- c) Dogri
- d) **English**

1524. Name the article in which the provision of the Eighth schedule of the constitution is available ?

- a) Article -120
- b) **Article-344(1) & 351**
- c) Article -210
- d) Article-343(1) & 350

1525. When was Official Language Act 1963 amended?

- a) **1967**
- b) 1955
- c) 1976
- d) 1965

1526. When was the Official Language Rules passed ?

- a) 1967
- b) 1955
- c) **1976**
- d) 1965

1527. In compliance of article 344 when was the Official Language Commission formed

- a) 1967
- b) **1955**
- c) 1976
- d) 1965

1528. From when did the Sec 3(3) of Official Languages Act take effect ?

- a) 1967
- b) 1955
- c) 1976
- d) **1965**

1529. Which Article comes under Part VI ?

- a) Article -120
- b) Article-344(1) & 351
- c) **Article -210**
- d) Article-343(1) & 350

1530. In which article is the provision regarding OL policy available in Part V of the constitution?

- a) **Article -120**
- b) Article-344(1) & 351
- c) Article -210
- d) Article-343(1) & 350

1531. Who is the Chairman of Central Hindi Committee ?

- a) Minister of Railways
- b) Minister of Home Affairs
- c) Chairman of Official language department
- d) **Prime Minister**

1532. What is the periodicity of the meetings of Town Official Language Implementation committee ?

- a) Once in 6 Months
- b) **Once in 3 Months**
- c) Once in 8 Months
- d) Once in 5 Months

1533. What is the periodicity of the meeting of Town Official Language Implementation Committee?

- a) **Once in 6 Months**
- b) Once in 3 Months
- c) Once in 8 Months
- d) Once in 5 Months

1534. From which course a category 'C' employee required to be trained?

- a) From Prabodh
- b) **From Praveen**
- c) From Pragya
- d) From Parangat

1535. What is the official language of the India?

- a) Telugu
- b) Hindi
- c) Marathi
- d) **Hindi in Devnagari Script**

1536. 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) Article 351

1537. 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

1538. 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

1539. Hindi Day is celebrated in India on every year.

- a) 10th January
- b) 26th January
- c) 15th August
- d) 14th September

1540. 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

1541. 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

1542. 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**

1543. 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

1544. 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

1545. 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

1546. In which article of the constitution of India is 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**

1547. Which of the following languages not included in the VIII Schedule of the Constitution of India?

a) **Chhattisgarhi**

b) Maithili

c) Dogri

d) Bodo

1548. 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**

1549. 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

1550. 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

1551. 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

1552. 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

1553. 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

1554. 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

1555. 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

1556. 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**

1557. What is the Official Language of Union of India

- a) Hindi in Devnagari Script**
- b) Hindi
- c) Sanskrit
- d) None of these

1558. 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

1559. When was official language act 1963 passed

- a) 10.05.1963**
- b) 10.05.1964
- c) 10.05.1965
- d) 10.05.1966

1560. When was official language Act 1963 amended

- a) 1963
- b) 1965
- c) 1967**
- d) 1969

1561. 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

1562. When is "Hindi Day" celebrated every year

- a) November 14
- b) September 14**
- c) November 21
- d) September 21

1563. 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

1564. 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) Pondicherry
- d) None of these

1565. What is the official language of Arunachal Pradesh?

- a) Mizo
- b) **English**
- c) Hindi
- d) None of these

1566. 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

1567. 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

1568. 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

1569. 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

1570. How many inspections in a month are mandatory for Rajbhasha Adhikari of railways

- a) **One inspection per month**
- b) Two inspections per month
- c) Three inspections per month
- d) Four inspection per month

1571. At present how many languages are enlisted in the Eighth schedule of the constitution

- a) 20
- b) 21
- c) **22**
- d) 23

1572. 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

1573. 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**

1574. When was the Official Language Rules passed?

- a) 1974
- b) 1975
- c) **1976**
- d) None of these

1575. How many articles are there in part XVII of the Constitution?

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

1576. In compliance of article 344 when was the official language commission formed in the year?

- a) 1955**
- b) 1956
- c) 1957
- d) 1958

1577. 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

1578. 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

1579. 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

1580. 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

1581. Which article comes under part VI?

- a) Article 120
- b) Article 343
- c) Article 344
- d) **Article 210**

1582. 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

1583. 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

1584. 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

1585. 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

1586. In which year Hindi (Parliament) section was established in Railway Board

- a) 1956
- b) 1958
- c) 1960**
- d) None of these

1587. The state of Jharkhand comes under which Region?

- a) **Region'A'**
- b) Region'B'
- c) Region'C'
- d) None of these

1588. The state of Jarkhand comes under which Region?

- a) Region'A'
- b) Region'B'
- c) **Region'C'**
- d) None of these

1589. 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**

1590. 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

1591. 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

1592. How many Hindi courses are prescribed for central government employees?

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

1593. Which is the elementary Hindi course prescribed for central government employees?

- a) Praveen
- b) Pragya

c) Parangat

d) **Prabodh**

1594. Who is the chairman of central Hindi Committee

a) **Prime Minister**

b) Home Minister

c) President of India

d) Vice President

1595. 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

1596. When was the present parliamentary committee on official language constituted?

a) September 1975

b) January 1975

c) September 1976

d) **January 1976**

1597. How many members are there in the committee of parliamentary on official Language?

a)21

b)25

c)27

d)**30**

1598. How many Lok Sabha members will be there in the committee of parliamentary on official language?

a)21

b)25

c)27

d) **20**

1599. 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

1600. 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

1601. 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

1602. 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

1603. 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

1604. 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

1605. 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**

1606. Which is the final Hindi course prescribed for Clerical Cadre Employees Of Central Government

a) Praveen

b) Pragya

c) **Parangat**

d) Prabodh

1607. 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**

1608. How many times the regular Hindi exams are conducted in a year?

a) One Time

b) **Two Times**

c) Three Times

d) Four Times

1609. In which months regular Hindi examinations are conducted

a) April and October

b) **May and November**

c) June and December

d) None of these

1610. 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

1611. Name the newly introduced course in Hindi by Hindi teaching scheme?

a) Praveen

b) Pragya

c) **Parangat**

d) Prabodh

1612. Which course a category 'C' employee required to be trained

- a) Praveen
- b) Pragya**
- c) Parangat
- d) Prabodh

1613. From which course a category 'D' employee required to be trained

- a) Praveen
- b) Pragya
- c) Parangat
- d) **Prabodh**

1614. What is the Lump sum award for passing Pragya?

- a) Rs.1200
- b) Rs.1600
- c) Rs.2000
- d) **Rs.2400**

1615. How many officers/ employees are awarded every year from southern railway under Railway Board's Rajbhasha individual cash award scheme

- a) Five
- b) Six
- c) Seven
- d) **Eight**

1616. How many first prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?

- a) Five members (Rs.2000/-) each employee
- b) Three members (Rs.3000/-) each employee
- c) **Two members (Rs.5000/-) each employee**
- d) None of these

1617. How many second prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?

- a) Five members (Rs.2000/-) each employee
- b) **Three members (Rs.3000/-) each employee**
- c) Two members (Rs.5000/-) each employee
- d) None of these

a) How many third prizes are given in a year for writing more than 10,000 words in one unit under home ministries award scheme?

- a. **Five members (Rs.2000/-) each employee**
- b. Three members (Rs.3000/-) each employee
- c. Two members (Rs.5000/-) each employee
- d. None of these

1618. 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

1619. 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

1620. 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

1621. What is the Lump sum award for passing Hindi type writing examination by private study?

- a) Rs.1200
- b) Rs.1600**
- c) Rs.2000
- d) Rs.2400

1622. What is the foreign language included in the Eighth schedule

- a) English
- b) Bhutanese
- c) Nepali**
- d) Russian

1623. Who is the chairman of the Divisional Official Language Implementation Committee?

- a) Sr.DPO
- b) ADRM

c) DRM

d) Senior Rajbhasha Adhikari

1624. ----- 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

1625. Who is eligible for Lump sum award?

a) Those employees who pass the Hindi exams by more than 95%

b) Those employees who pass the Hindi exams by more than 85%

c) Those employees who pass the Hindi exams by private efforts

d) None of these

1626. 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

1627. 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

1628. 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

1629. What is the amount of honorarium given to the OLIC clerks?

a) Rs.600/-

b) Rs.800/-

c) Rs.1000/-

d) Rs.1200/-

1630. What is the duration for Hindi conversation course?

- a) 15 hours
- b) 20 hours
- c) 25 hours
- d) **30 hours**

1631. What is the amount of cash award for passing Hindi typing with 88% or more but less than 92% Of marks

- a) Rs.600/-
- b) **Rs.800/-**
- c) Rs.1000/-
- d) Rs.1200/-

1632. What is the amount for passing Hindi stenography with 95% or more marks

- a) **Rs.2400**
- b) Rs.2600
- c) c)Rs.2800
- d) d)Rs.3000

1633. What is the honorarium amount given to part-time Hindi Librarian per month?

- a) Rs.600/-
- b) Rs.800/-
- c) **Rs.1000/-**
- d) Rs.1200/-

1634. What is the Lump sum award given for passing Hindi Stenography examination?

- a) Rs.2400
- b) Rs.2600
- c) Rs.2800
- d) **Rs.3000**

1635. Mention the name of Rajbhasha Padak awarded to Senior Administrative Grade or higher official

- a) Railmantri Rajbhasha Swarna Padak
- b) **Railmantri Rajbhasha Rajat Padak**
- c) Lal Bahadur Shastri Award
- d) Adarsh Rail Award

1636. Name the Railway Mantri Rajbhasha shield/ trophy awarded to Head of Office of Zonal Railways

- a) Railmantri Rajbhasha Swarna Padak

- b) Railmantri Rajbhasha Rajat Padak
- c) Lal Bahadur Shastri Award
- d) **Adarsh Rail Award**

1637. Mention the name of the award to be given for writing original Hindi books on technical subjects by Railway Board

- a) Maithili Sharan Gupta Award
- b) Prem chand Award
- c) **Lal Bahadur Shastri Award**
- d) Adarsh Rail Award

1638. Mention the name of the award to be given for writing story/ novel in Hindi by Railway Board

- a) Maithili Sharan Gupta Award
- b) **Prem chand Award**
- c) Lal Bahadur Shastri Award
- d) Adarsh Rail Award

1639. Mention the name of the award to be given for writing the book of Hindi poems, by Railway Board

- a) **Maithili Sharan Gupta Award**
- b) Prem chand Award
- c) Lal Bahadur Shastri Award
- d) Adarsh Rail Award

1640. What is the cash award given under, Kamalapati Tripathi Rajbhasha Swarna Padak

- a) Swarna Padak + 5,000 cash and certificate
- b) **Swarna Padak + 10,000 cash and certificate**
- c) Swarna Padak + 15,000 cash and certificate
- d) None of these

1641. Kamalapathi Tripathi Rajbhasha swarna padak is awarded to how many members every year

- a) **Awarded to 01 officer**
- b) Awarded to 02 officer
- c) Awarded to 03 officer
- d) None of these

1642. What is the cash award given under, Railmantri Rajbhasha Rajat Padak

- a) Rajat Padak + 6,000 cash and certificate

b) Rajat Padak + 8,000 cash and certificate

c) Rajat Padak + 10,000 cash and certificate

d) None of these

1643. Rail Mantri Rajbhasha Rajat Padak is given to how many members every year

a) Awarded to 30 officers

b) Awarded to 30 officers

c) Awarded to 30 officers

d) Awarded to 30 officers

1644. What is the amount given under Rajbhasha individual cash award scheme?

a) Rs.2000/- + Certificate

b) Rs.3000/- + Certificate

c) Rs.5000/- + Certificate

d) Rs.10,000/- + Certificate