SOUTH CENTRAL RAILWAY

मुख्यालय/Headquarters Office
कार्मिकविभाग/Personnel Department
सिकंदराबाद/Secunderabad.
दिनांक Date: 17.10.2025

सं .No .SCR/P-HQ/CBT/QB/SY/Mech
(e office No. 512195)

Sr.DPO/SC,HYB,BZA,GNT,GTL&NED

Sub: - Unified Syllabus and Question bank for JE/C&W (Mech) against LDCE Quota in Mechanical department – Reg

Ref: - Railway Board's Lr.No.E(NG)I/2025/PM1/3 dated 26.05.2025.

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In terms of RBE No. 19/2025, Railway Board has given guidelines on conduct of Computer Based Test for LDCE examination in Mechanical department. The following posts are identified and planned to conduct the CBT examination.

(i) JE/C&W/Mech -Against LDCE Quota - Syllabus
(ii) JE/C&W/Mech -Against LDCE Quota - Question bank

In view of the above, for the above LDCE examination, the competent authority(i.e.,CRSE/Coaching) has approved the standardised unified syllabus and Question bank. The same is enclosed herewith for further course of action at your end please.

Encl: as above

17/10

(D.Malathi)
Dy.CPO/M&EL

C/- PCME, CMPE.Dsl, Secy to PCME – for kind information
C/- Dy.CPO/Rectt&Chairman – for kind information

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4624342/2025/O/o CH.OS(I/C)/MECH CADRE/PCPO/HQ/SCR

SOUTH CENTRAL RAILWAY

File No. 2A/Syllabus/JE/Tech/25

Office of the
ATC/C&W/BZA
Dt: 03.09.2025.

Sr DME/BZA

Sub: Syllabus for the post of JE 25% LDCE & PR quota and Tech-III 25% LDCE quota in Mechanical/C&W dept. - Reg.
Ref: Lr. No. B/M.271/1/Supervisors/2025 by your office dated 01.09.2025.

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As requested by above reference, Syllabus for the post of JE 25% LDCE & PR quota and Tech-III 25% LDCE quota in Mechanical/C&W department is composed as below after careful consideration of all the fields pertaining to C&W department.

SYLLABUS FOR THE POST OF JE AGAINST 25% LDCE QUOTA IN MECHANICAL/C&W DEPARTMENT

I. COACHING

- Various types of coaching stock in Indian Railway and salient features of ICF bogie and FIAT bogies.
- Air brake system of ICF and LHB coaches.
- Air brake testing of coaching stock.
- Maintenance practices of ICF and LHB.
- Various registers maintained in coaching stock.
- Details of the items attended in PM, SM and OEM attention.
- R&D activities carried out in coaching stock.
- Procedure of IOH coaching stock.
- Various dimensions of ICF and LHB coaches.
- Bio Toilets, vacuum toilets, pressurized flushing toilets maintenance.
- FDS & FDSS
- Revised Policy Circular –IV of coaching stock.
- CMM (Coach Maintenance Module)
- IRCA part IV.
- Passenger amenities.
- Latest modifications in coaching stock.
- MCC, OBHS, CTS, Pest and Rodent Control contract monitoring.
- Train 18 (Vandebarath) & Train sets like DEMU, MEMU.
- Handling of Railmadad complaints.

II. FREIGHT

- Various types of wagon stock in Indian Railways.
- Procedure of examination pattern of CC rake, Premium rake and End to End rake.
- Salient Features CASNUB, LCCF & LWLH bogies.

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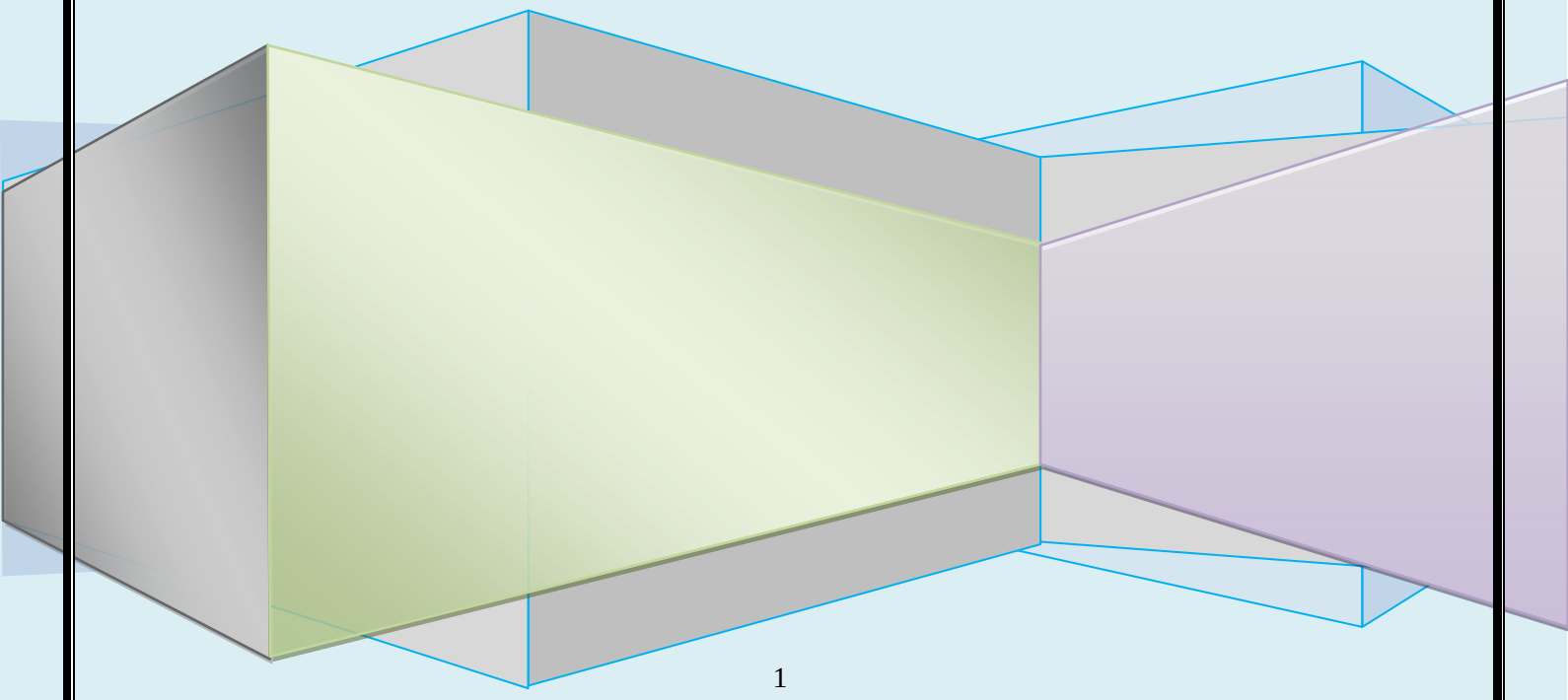
- Procedure of ROH of Freight stock.
- Maintenance of BCNHL wagons and different generations of BCNHL doors and modifications.
- Various registers maintained in freight stock.
- Freight stock JPO/2023 of South Central Railway.
- Air brake testing procedure of freight stock.
- Knowledge on FMM and FOIS.
- Modified Brake system in Freight Stock.
- Latest development/modification in freight stock.
- IRCA part –III.

III. **GENERAL**

- Quantitative aptitude
- General arithmetic & Science (up to class XII and ITI standard)
- Current affairs
- General knowledge
- Basic English knowledge
- Basic Life Support
- Duties of C&W supervisors at Accident Spot.
- Breakdown attention facilities over BZA division.
- Classification of accidents.
- Accident Investigation & Restoration activities.
- Brake Binding, Train parting and hot axle attention at en-route.
- Poor brake power & Loco capability test.
- ODC, WILD, OMRS, Weigh-Bridges.
- Basic knowledge on Computers.
- Procedure of Air continuity attention in Coaching and Freight stock.
- Brief Knowledge of Establishment rules, HOER, WCA, Leave, Pass and D&A rules.
- Knowledge on Stores.
- Basics of official language act and Rules.
- Various incentive schemes given for implementation of official language.

SOUTH CENTRAL RAILWAY
BZA Division

QUESTION BANK FOR DEPARTMENTAL EXAM
JUNIOR ENGINEER C&W-2023



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ICF

GENERAL

1. The standard wheel gauge of passenger BG coaching stock is –

(a) 1602 mm (b) 1601 mm (c) **1600 mm** (d) 1598 mm

2. The maximum wheel gauge of passenger BG coaching stock is -

(a) 1600 mm (b) 1601 mm (c) 1598.5mm **(d) 1602 mm**

3. The minimum permissible wheel gauge of passenger BG coaching stock is –

(a) 1601.5 mm (b) 1600 mm **(c) 1599 mm** (d) 1601 mm

4. Length over body of ICF BG coaches is –

(a) 2334 mm (b) 2310 mm **(c) 21337 mm** (d) 22132 mm

5. Rigid wheelbase of ICF BG trolley is –

(a) 2896 mm (b) 2803 mm (c) 2990 mm (d) 2837 mm

6. At what interval, the intensive cleaning of any coach is?

(a) Three month **(b) One month** (c) Six month (d) Eight month

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

(a) 15 days (b) 25 days **(c) one month** (d) two month

8. What is the period for the POH of any OCV attached to a passenger train?

(a) Nine month (b) 12 month (c) 18 month **(d) 24 month**

9. What shall be the period for POH for a coach attached to Mail/ Express train?

(a) 9 month (b) 12 month **(c) 18 month** (d) 24 month

10. What shall be the period for POH of PCV on other than train mail/Express train for AC coach?

(a) 9 month (b) 12 month **(c) 18 month** (d) 24 month

11. The other name of pilot valve is –

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

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12. What is the period for POH of departmental coach except ART/ARME?

(a) 24 month (b) 36 month (c) 42 month (d) 60 month

13. Transportation code of the ladies compartment is –

(a) X (b) Z (c**) Y** (d) L

14. What is the Transportation code of second class fitted with self-generating electrical equipment?

(a) SG (b) **GS** (c) GY (d) GSD

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

(a) AR (b) CR (c) IC (d) **RA**

16. Transportation codes of the pantry car is –

(a) BC (b) PC **(c) WCB** (d) CD

17. Which part is not used in ICF trolley?

(a) Dashpot (b) Side bearer (c) Shock absorber (d) **Drag link**

18. Transportation codes of vestibule second class 3- tier sleeper coach fitted with self-generating electrical equipment is –

(a) WGSCNA (b) **WGSCN** (c) MGSCN (d) GSMGCN

19. What is the Transportation code of vestibule III class two-tier sleeper coach fitted with self- generating electrical equipment and ladies compartment?

(a) WCBSCZA (b) **WGSCNY** (c) WGSCWY (d) YZZFS

20. What is the maximum permissible clearance between brake gear pin and bushes?

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

21. As per policy circular No-4 secondary examination of mail/express has been skipped on round trip up to-

(a) 800 Km (b) 1500 Km **(c) 2500 Km** (d) 1800 Km

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22. In coach, the load transmission takes place through -

(a) Center pivot (b) Bogie (c) **Side bearer** (d) Wheel

23. The CI brake block should be changed, if worn out beyond-

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

24. The "L" type composite brake block should be changed, if worn out beyond-

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

25. The "K" type composite brake block should be changed, if worn out beyond-

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

26. Std. packing pieces of ICF coach is –

(a) 13, 14, 26 mm (b) 13, 22, 28 mm (c) **13,26,38,48 mm** (d) 22,26,32 mm

27. Coaching stock accident involving human life enquiry by-

(a) CME (b) **CRS** (c) Sr.DME (d) ADRM

28. Yellow stripes on end body of ICF indicate is –

(a) **Anti telescopic** (b) Dual brake (c) In built air brake (d) Non-Anti telescop

29. What defect is detecting UST test?

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

30. The original HAL bogies with speed potential of -

(a) 92 km/h (b) **92 km/h** (c) 92 km/h (d) 92 km/h

31. What is codal life of steel bodied coaches (Including dining / pantry cars) -

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

ATC C&W BZA

32. What is codal life of IRS coaches?

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

33. Codal life of light utilization categories of coaches is -

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

34. Periodicity of periodic overhauls earning less than 2.5 lakhs Kms per annum is -

(a) 12 Month (b) 18 Month (c) 24 Month (d) 30 Month

35. The standard thickness of compensating rings is -

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

36. Tare weight of the WGSCZAC coach is -

(a) 50.30t (b) **49.30t** (c) 48.77 t (d) 47.22 t

37. Payload of the WGSCZAC coach is -

(a) 6.38t (b) 7.22 t (c) **5.680 t** (d) 4.889 t

38. Gross weight of the WGSCZAC coach is -

(a) **54.98 t** (b) 56.36 t (c) 59.22 t (d) 52.23t

39. Tare weight of the WGSCWAC coach is -

(a) 49.75 t (b) 49.30 t (c) **50.00 t** (d) 46.50 t

40. Total payload of the WGSCWAC coach is –

(a) 1.440 t (b) 5.680 t (c) **3.680 t** (d) 2.275 t

41. Tare weight of the GS coach is –

(a) 36.99 t (b) 46.99 t (c) 38.03 **t** (d) 37.70 t

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42. Normal payload of the GS coach is -

(a) 6.98 t (b) **5.85 t** (c) 6..67 t (d) 7.21 t

43. What is overload of the GS coach?

(a) 85% (b) 90% **(c) 100%** (d) 150%

44. Total payload of the GS coach is -

(a) 5.79 t (b) 12.60 t **(c) 11.70 t** (d) 14.04 t

45. In tare condition the bogie frame bolster clearance of non-AC, GS, SDC, SCN coach is -

(a) 48▪3mm **(b) 40▪5mm** (c) 47▪2mm (d) 29▪3mm

46. In gross load condition, the bogie frame bolster clearance of non AC, GS coach is

a) 75▪3mm (b) 78▪2mm **(c) 74▪3mm** (d) 71▪2mm

47. In tare condition the body bogie clearance of non AC, GS, SDC, SCN coach is -

(a) 70▪3mm (b) 72▪3mm (c) 75▪3mm (d) 78▪2mm

48. In gross load condition, the body bogie clearance of non-AC, GS, coach is -

(a) 26▪3mm (b) 29▪2mm (c) 30▪2mm **(d) 36▪3mm**

49. What shall be the period for cleaning of carpet of AC compartment?

(a) Two month **(b) one month** (c) 15 day (d) Three month

50. All newly built coaches shall be given IOH after -

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

51. The revised maximum payloads of NMG coaches are -

(a) 7.39 t (b) 8.23 t **(c) 9.20 t** (d) 10.32 t

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52. The length of over body of IRS coach is -

(a) 21337 mm (b) 21336 mm (c) 21996 mm **(d) 21030 mm**

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

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

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

(a) 22297 mm (b) 22296 mm (c) 21336 mm **(d) 21996 mm**

55. Over all width of ICF/ RCF coach is -

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

56. In IRS coach, what is the overall width?

(a) 3251 mm (b) 3250 mm (c) 3245 mm (d) 3.991 mm

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

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

58. In IRS coaches, the maximum height from rail level top of the roof is -

(a) 4025 mm (b) 3991 mm (c) 3786mm **(d) 3886 mm**

59. In ICF coach, replace Headstock if the thickness is reduce more than -

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

60. Maintenance and repair procedure for hydraulic shock absorbers used on coaching stock, what RDSO technical pamphlet is used -

(a) C-7512 (b) C-7301 **(c) C-6803** (d) C-7607

61. Maintenance and repair procedure for wheel and axle manual, what RDSO‟s technical pamphlet is used.-

(a) C-7512 **(b) C-7907** (c) C-7901 (d) C-7809

ATC C&W BZA

62. Instruction for Inspection/ maintenance of air brake equipment on passenger coaches, what RDSO"s technical pamphlet is used -

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

63. Description of water raising system to SK- 86209 and instruction for filling water for air brake coaches, what RDSO"s technical pamphlet is used -

(a) C-9009 (b) C-9011 (c) C-9103 (d) C-9105

64. Maintenance manual for IRSA-600 slack adjuster, what RDSO's technical pamphlet is used -

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

65. At what schedule the painting of lavatories from inside is done –

(a) 'B' schedules (b) „A" schedule (c) „C" schedule (d) Special schedule

66. Permitted luggage allowed for IInd class pass is –

(a) 35 Kg/ head **(b) 50 Kg/ head** (c) 70 Kg/ head (d) 100 Kg/ head

67. Permitted luggage allowed for Ist class pass is –

(a) 35 Kg/ head (b) 50 Kg/ head **(c) 70 Kg/ head** (d) 100 Kg/ head

68. Re painting of coaching stock as per "C" schedule is done at every –

(a) 3.0 year (b) 3.5 year (c) 4.5 year **(d) 5.0 year**

69. Rehabilitation of coaching stock is carried out between –

(a) 10 to 12 year **(b) 12 to 15 year** (c) 15 to 18 year (d) 18 20 year

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

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

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71. Rehabilitation cost of coaching stock is –

(a) 15% of the total cost
(b) 20% of the total cost
(c) 25% of the total cost
(d) 35% of the total cost

72. At what interval, the schedule "C" examination of a BG coach is?

(a) One month ± 3 days
(b) Three month ± 3 days
(c) Six month ± 7 days
(d) Nine month ± 7 days

73. What is the interval of schedule "A" examination of a coach?

(a) One month ±3 days
(b) Two months ± 3 days
(c) Three months ± 6 days
(d) None of the above

74. What is the interval of schedule "B" examination of a coach?

(a) One month ± 3 days
(b) Two months ± 3 days
(c) Three months ± 7 days
(d) None of the above

75. What is the purpose of manipulator?

(a) For testing roller bearing
(b) For down hand welding
(c) For ROH
(d) For brake ringing Adjustment

76. What is the interval of metallic commode chute panting?

(a) Every 15 days
(b) **Every month**
(c) Every 45 days
(d) Every 90 days

77. What is the interval of cleaning/ flushing of overhead water tank?

(a) Every trip
(b) **Every month**
(c) Every three month
(d) Every Six month

78. At what interval, check the anticorrosive paint in commode?

(a) One month
(b) Three month
(c) Six month
(d) None of the above

ATC C&W BZA

79. At what interval IOH of ICF coaches is done -

(a) Two month
(b) Three month ▪15 days
(c) Six month ▪7 day
(d) Nine months▪30 day

80. What do you mean by FRP?

(a) Fibre recalling panel
(b) Fibre reinforced plastic
(c) First reduction plastic
(d) Fine reinforced panel

81. At what interval, the IOH of shatabdi coaches is?

(a) 12 months or four lakh km which is earlier
(b) **9 months or two lakh km which is earlier**
(c) 6 months or one lakh km which is earlier
(d) None of the above

82. The identification of bogie mounted air brake system coach is –

(a) 'A' is written near coach Nos
(b) 'B' is written near coach Nos
(c) **'AB' is written near coach Nos**
(d) None of the above

83. What is the periodicity for IOH of ICF coaches except Rahdhani & Shatabdi?

(a) **9 month or 2,50,000 Km whichever is earlier**
(b) 3 month or 150,000 Km whichever is earlier
(c) 6 month or 250,000 Km whichever is earlier
(d) None of the above

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

(a) **Buffer**
(b) Outer main head stock
(c) With axially head stock
(d) None of the above

ATC C&W BZA

CBC / DRAFT GEAR

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

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

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

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

3. Standard buffer projection from Headstock is –

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

4. Minimum Permissible buffer projection from Headstock is –

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

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

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

6. In ICF coach drawbar and Headstock, what should be the maximum buffer projection in mm?

(a) 92.0 mm (b) 34.0 mm (c) 36.0 mm (d) 38.0 mm

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

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

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

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

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

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

10. What should be the minimum buffer height after POH?

(a) 1050 mm (b) 1060 mm (c) 1080 mm **(d) 1090 mm**

ATC C&W BZA

11. The ICF buffer plunger is made of –

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

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

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

13. What is the buffer stroke in ICF coach?

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

14. The new thickness of a draft pad in ICF coach is -

(a) 30.0 mm **(b) 32.0 mm** (c) 33.0 mm (d) 34.0 mm

15. The condemning thickness of draft pad in ICF coaches?

(a) 30.0 mm (b) 32.0 mm (c) 33.0 mm (d) 34.0 mm

16. What is the slot of draft key in drawbar hook in ICF coach?

(a) 36.0 mm (b) 37.0 mm **(c) 38.0 mm** (d) 39.0 mm

17. What is the new thickness of draft key in ICF coaches?

(a) 30.0 mm **(b) 36.0 mm** (c) 39.0 mm (d) 41.0 mm

18. The draw & buffing force transmission in coach is -

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

19. Name the distance between axle box top and axle box crown bolt is –

(a) Clearance 'A' (b) clearance 'B' (c) clearance 'C' (d) None of the above

20. Write the difference of load between IRS coach and ICF coach is -

(a**) 26 to 32 %** (b) 23 to26 % (c) 20 to 22 % (d) 30 to 36 %

ATC C&W BZA

21. Hauling capacity of HT type CBC is -

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

22. What is Arc radius of buffer face?

(a) 1505 mm (b) **1905 mm** (c) 1305 mm (d) 1205 mm

23. In production unit, in tare condition the minimum permissible buffer height above rail line to center of buffer is -

(a) 11030 mm (b) 1045 mm (c) 1060 mm **(d) 1095 mm**

24. In workshop, in tare condition the minimum permissible buffer height above rail line to center of buffer is -

(a) 1090 mm (b) 1075 mm (c) 1060 mm (d) 1030 mm

25. What thickness of hard packing ring used for 889 to 864 mm average trade diameter of two wheel sets of bogie in adjustment of buffer height?

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

26. What thickness of hard packing ring used for 863 to 840 mm average trade diameter of two wheel sets of bogie in adjustment of buffer height?

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

27. Thickness of hard packing ring used for 839 to 820 mm average trade diameter of two wheel sets of bogie in adjustment of buffer height is -

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

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

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

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29. Enhanced proof load of draw gear and screw coupling is -

(a) 75 t (b) 80 t (c) 90 t (d) 85 t

30. Enhanced breaking load of draw gear and screw coupling is -

(a) 108 t (b) 120 t **(c) 130 t** (d) 60 t

31. What is wear limit of draw hook of root of near point of contact with bent link?

(a) 8.0 mm (b) 10.0 mm (c) 12.0 mm **(d) 13.0 mm**

32. Wear limit of draw hook pinhole is –

(a) 1.0 mm **(b) 3.0 mm** (c) 5.0 mm (d) 7.0 mm

33. Wear limit of draw hook bottom side of shank is -

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

34. Wear limit of 45mm dia hole draft yoke is -

(a) 3.0 mm (b) 1.0 mm (c) 5.0 mm (d) 7.0 mm

35. Nominal diameter of draw gear pin is -

(a) 25.0 mm (b) 30.0 mm **(c) 31.0 mm** (d) 36.0 mm

36. Wear limit of draw gear pin is -

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

37. Wear limit of draw hook bearing piece is -

(a) 3.0 mm (b) 5.0 mm **(c) 6.0 mm** (d) 10.0 mm

38. Nominal diameter of draw hook locating pin is -

(a) 10.0 mm **(b) 25.0 mm** (c) 40.0 mm (d) 45.0 mm

ATC C&W BZA

39. The projection of the shoulder on the draw hook from the Headstock is within -

(a) 80 to 100mm (b) 90 to 110mm **(c) 92 to 120mm** (d) 100 to 120mm

40. Enhance capacity of buffer specification No: IRS-M 10 are fitted in all BG maintenance coach is -

(a) 910 kg.m **(b) 1030 kg.m** (c) 1210 kg.m (d) 1290 kg.m

41. Nominal thickness of buffer casing body wall is –

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

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

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

43. Maximum nominal thickness of buffer plunger table wall is -

(a) 4.0 mm (b) 9.0 mm (c) 13.0 mm (d) 16.0 mm

44. Maximum nominal thickness of plunger faceplate in ICF type buffer is -

(a) 19.0 mm (b) 22.0 mm (c) 24.0 mm (d) 26.0 mm

45. Wear limit of plunger faceplate in ICF type buffer is -

(a) 9.0 mm **(b) 11.0 mm** (c) 12.0 mm (d) 13.0 mm

46. Wear limit of buffer plunger table wall in ICF type buffer is -

(a) 2.0 mm **(b) 4.0 mm** (c) 6.0 mm (d) 8.0 mm

47. In buffer casing, the vertically distance of holes from center of buffer is -

(a) 60.3 ±0.2mm (b) 62.3 ±0.5mm (c) 59.3 ±0.2mm(d) 61±0.4mm

48. In buffer casing, the Horizontal distance of holes from center of buffer is -

(a) 163.5±0.2mm (b) 169.3 ±0.4mm **(c) 174.5±0.2mm** (d) 176.3±0.2mm

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49. Maximum distance apart for centers of buffer is –

(a) 1200 mm (b) 1700 mm (c) 1940 mm **(d) 1955 mm**

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

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

51. The minimum tensile stress of 'H' type tight lock center buffer coupler is –

(a) 6560 Kg/cm^2 (b) 6112 Kg/cm^2 **(c) 6327 Kg/cm^2** (d) 6720 Kg/cm^2

52. Minimum yield stress of 'H' type tight lock center buffer coupler is –

(a) 3890 Kg/cm^2 (b) 4218 Kg/cm^2 **(c) 4310 Kg/cm^2** (d)4560 Kg/cm^2

53. Minimum elongation in 51.0 mm of 'H' type tight lock center buffer coupler is –

(a) 10% (b) 15% (c) 18% **(d) 22%**

54. Minimum tensile proof load of 'H' type tight lock center buffer coupler is –

(a) 2000 KN **(b) 1000KN** (c) 500 KN (d) 1500 KN

55. Minimum compressive proof load of 'H' type tight lock center buffer coupler is –

(a) 2000 KN (b) 1000 KN (c) 500 KN (d) 1500 KN

56. How many auxiliaries Headstock in ICF shell?

(a) 02 (b) 03 **(c) 04** (d) 08

57. Thickness of the auxiliaries Headstock is –

(a) 8/10 mm (b) 12/15 mm (c) 15/18 mm (d) None

58. Destruction tube is provided inside the –

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

59. The maximum difference in buffer height on same head stock is –

(a) 59.0 mm **(b) 64.0 mm** (c) 69.0 mm (d) 74.0 mm

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60. Buffer centre stiffener is provided between –

(a) Main Headstock & auxiliary headstock (b) Over main headstock

(c) End panel & Sole bar (d) None of the above

61. At present all new coaches are being manufactured with bogie mounted air brake system and –

(a) Enhance capacity drew gear (a) With load sensing device

(c) 2SAB (d) None of the above

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WHEEL & AXLE

1. 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

2. 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

3. 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

4. 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

5. 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**

6. 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

7. 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**

ATC C&W BZA

8. Permissible variations in wheel tread diameter for four-wheeled trolley (Sehileren, 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

9. 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

10. 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

11. 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

12. 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

13. Permissible variation in wheel treads diameter for four-wheeled trolley (Sehileren, 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

14. Permissible variations in wheel tread diameter for six-wheeled trolley in the coach orsame unit on BG is -(while turning the wheel)

(a) 10.0 mm (b) 8.0 mm (c) 4.0 mm **(d) 6.0 mm**

15. Permissible variations in wheel tread diameter in ICF on the coach or same unit on BG is – (while turning the wheel)

(a) 20.0 mm (b) 15.0 mm **(c) 13.0 mm** (d) 18.0 mm

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16. 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

17. The axle load of AC coaches is –

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

18. The flange thickness of 16.25 tons axle load bogie is –

(a) 14.0 mm **(b) 28.5mm** (c) 15.0 mm (d) 20.0 mm

19. The use of 16.25 tons axle load bogie is in –

(a) WGS (b**) AC** (c) WGSCN (d) Non AC

20. Axle load capacity of generator (WLLRM) coach is –

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

21. The flange thickness of 13 tons load bogie is –

(a) 14.0 mm **(b) 28.5 mm** (c) 15.0 mm (d) 20.0 mm

22. The use of 13 tons axle load bogie is –

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

23. 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

24. Flat faces on BG coach is –

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

25. High speed ICF coach condemning flange thickness is –

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

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26. Lateral movements of wheels are controlled by –

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

27. 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**

28. 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

29. Bogie wheelbase of ICF/ RCF all coil bogies are -

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

30. What is the new wheel diameter of ICF/ RCF coach is –

(a) 910 mm **(b) 915 mm** (c) 930 mm (d) 925 mm

31. Min shop issue size of ICF solid wheel is –

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

32. Flange thickness of new BG wheel coach is –

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

33. Condemning flange thickness of other then superfast new BG wheel is –

(a) 28.0 mm (b) 20.0 mm **(c) 16.0 mm** (d) 14.0 mm

34. 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

35. Top radius of the new BG wheel flange is –

(a) 14.5 mm (b) 13.5 mm (c) 11.5 mm (d) 10.5 mm

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36. 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

37. 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

38. 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

39. 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**

40. 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

41. 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

42. 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**

43. Total length of axle is

(a) 2310 + 0.5/-0.0mm **(b) 2316 + 0.5/-0.0mm**

(c) 2318 + 0.5/-0.0mm (d) 2320 + 0.5/-0.0mm

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44. 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

45. 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

46. 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

ATC C&W BZA

AIR BRAKE

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

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

2. In coaching stock, the time taken for releasing of the brake is -

(a) 45-60 sec **(b) 15-20sec** (c) 3-5 sec (d) 120-180 sec

3. 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

4. In the passenger train, the diameter of branch pipe is –

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

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

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

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

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

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

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

8. BP pressure in working train is –

(a) 6.0± 0.1Kg/cm^2 (b) 5.5± 0.1 Kg/cm^2 **(c) 5.0**± 0.1 **Kg/cm^2** (d) 5.2± 0.1 Kg/cm^2

9. During charging 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 the above

10. During full service application, Brake pipe pressure is dropped to
(a) 2.0 Kg/cm^2 (b) 1.0 Kg/cm^2 (c) 3.0 Kg/cm^2 **(d) 1.5 Kg/cm^2**

11. The en route brake power percentage of mail train should be –

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(a) 80% (b) 75% **(c) 95%** (d) 90%

12. The full form of BP is –

(a) By pass **(b) Brake pipe** (c) Bent pipe (d) None of the above

13. In twin pipe system, the AR pressure should be –

(a) 5.0 Kg/cm^2 **(b) 6.0** Kg/cm^2 (c) 7.0 Kg/cm^2 (d) 8.0 Kg/cm^2

14. Full form BC is –

(a) Brake control (b) Beside coach (c**) Brake cylinder** (d) Branch cylinder

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

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

16. Cut off angle cock can be fitted to-

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

17. What is the diameter of bogie mounted brake cylinder?

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

18. In air brake system, the No of brake cylinder is-

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

19. The number of brake cylinders in in Bogie mounted braking system is –

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

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

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

21. The piston stroke of air brake system when brake blocks are touching to wheel is –

(a) 50-100 mm (b) 88-100 mm (c**) 50-70 mm** (d) 75-100 mm

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

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

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

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

24. Brake should not apply during insensitivity test with in -

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

25. During release after full service application, release time of Mail/Express coach is –

(a) 5 to 10 Sec (b) 10 to 15 Sec (c) **15 to 20 Sec** (d) 20 to 30 Sec

26. Check valve with choke allows air from –

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

27. Feed pipe diameter of Rajdhani coach is –

(a) 20.0 mm (b) **25.0 mm** (c) 30.0 mm (d) 35.0 mm

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

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

29. What is the pressure of control reservoir in coaching trains?

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

30. In coaching trains, auxiliary reservoir is charged to -

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

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31. Brake pipe throughout the length of train is charged with compressed air at -

(a) 6.0 Kg/cm^2 (b) 5.8 Kg/cm^2 **(c) 5.0** Kg/cm^2 (d) 4.8 Kg/cm^2

32. Feed pipe throughout the length of train is charged with compressed air at -

(a) 6.0 kg/cm2 (b) 5.5 kg/cm2 (c) 5.0 kg/cm2 (d) 4.8 kg/cm2

33. After brake application, the control reservoir is disconnected from the -

(a) **Brake pipe** (b) Auxiliary reservoir (c) Brake cylinder (d) Feed pipe

34. After the brake application, the auxiliary reservoir is however continuously charged from feed pipe at -

(a) 5.0 Kg/cm^2 (b) 4.8 Kg/cm^2 (c) 5.8 Kg/cm^2 **(d) 6.0** Kg/cm^2

35. Reduction in BP pressure for minimum application is -

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

36. Reduction in BP pressure for service application is -

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

37. Reduction in BP pressure for full service application is -

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

38. Reduction in BP pressure for emergency application is -

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

39. After brake released, isolate the brake cylinder from the auxiliary reservoir by the -

(a) **Distributor valve** (b) Control reservoir (c) Brake pipe (d) Feed pipe

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40. The color of brake pipe in coaching trains is -

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

41. The color of feed pipe in coaching trains is -

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

42. Cut off angle cock fitted on the brake pipe is painted -

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

43. Cut off angle cock fitted on the feed pipe is painted -

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

44. How many air brake cylinders are fitted in under frame mounted air brake system on every coach?

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

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

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

46. What is the choke diameter of guards emergency brake valve?

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

47. A device provided in the brake rigging for automatic adjustment of clearance/ slack between brake block and wheel it's called -

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

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

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

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

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

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

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

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

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

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

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

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

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

54. The help of cut of angle cock, the air pressure in train pipe is exhaust or close-

(a) **True** (b) False (c) None of the above

55. For testing C3W / KE type DV, after full service application. The brake cylinder filling time from 0-to 3.6 kg/cm^2 is-

(a) **3 to 5 sec** (b) 5 to 10 sec (c) 10 to 15 sec (d) 12 to 8 sec

56. For testing C3W / KE type DV, after releasing the brake cylinder release time from max BC pressure from 3.8 ± 0.1 kg/cm^2 to 0.4 kg/cm^2 is –

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

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57. For testing C3W / KE type DV, after emergency application, the brake cylinder filling time from 0 to 3.6 kg/cm2 is –

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

58. During brake release, air from BC goes to

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

59. What type of isolating cocks are provided in the passenger coaches

(a) **Ball type** (b) Wall type (c) Done type (d) C3W type

60. The diameter of ball in internal ball valve of cut of angle cock is

(a) 15 mm (b) 13 mm (c) 17 mm **(d) 10 mm**

61. At what interval, check for 'A' and 'e' Dimension of passenger coach?

(a) **Every trip** (b) Two month (c) Three month (d) Six month

62. At what schedule, the manual brake release test is carried out on every coach of the rake?

(a) „C" schedules **(b) 'A' schedule** (c) „B" Schedule (d) Special schedule

63. At what schedule, testing of pressure gauge and replacement of the defective or accurate gauge (for SIR/ guard compartment)?

(a) **'C' schedules** (b) „A" schedule (c) „B" Schedule (d) Special schedule

64. What type of grease to be used after cleaning and inspection all parts of slack adjuster?

(a) **Servo-gem-4** (b) Graphite grease (c) Servo- germ-RR-3 (d) None of the above

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

(a) 2- way (b) 4-way **(c) 3-way** (d) Single way

66. The total no. of MU washer used in a twin pipe passenger coach in a rake is –

(a) 3 **(b) 4** (c) 2 (d) 6

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67. At what schedule, when single car test is carried out -

(a) **'C' schedules** (b) „A" schedule (c) „B" Schedule (d) None of the above

68. In single car leakage test, the air pressure drop should not exceed –

(a) 0.35kg/cm^2/min **(b) 0.2** kg/cm^2/min (c) 0.28 kg/cm^2/min (d) 0.3 kg/cm^2/min

69. At what interval, test rig or with a locomotive testing is carried out -

(a) Every round trip (b) One month (c) Three month (d) Six month

70. When DV is working condition the position of DV handle is –

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

71. As per population of air brake stock the percentage of distribution valve should be kept as spares –

(a) 10% **(b) 5%** (c) 2% (d) 10%

72. The en-route brake power percentages of M/E BG coaching train is –

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

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

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

74. What shall be the identification next to the coach number at the coach side shall be painted; Air coaches with 24 V?

(a) Y **(b) AY** (c) A (d) No marking

75. What shall be the identification next to the coach number at the coach side shall be painted; Air brake coaches with 110 V?

(a) Y (b) AY **(c) A** (d) No marking

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

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

77. Length of air braked Hose is –

(a) 790 mm (b) 660 mm **(c) 839 mm** (d) 844 mm

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

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

79. DV is directly mounted on -

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

80. Which component supplies compressed air to DV?

(a) FP (b) AR (c) BP **(d) Main valve**

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

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

82. The angle cock of wagon can be fitted on coach provided it is having?

(a) Nut (b) Nut & Bolt

(c) Reducer (d**) Reducer with inner &outer threads**

83. Cut of angle cock is open position of handle is –

(a) **Parallel to pipe** (b) Parallel to pipe or perpendiculars to

(c) Pipe perpendicular to pipe (d) None of the above

84. The full from of CR is –

(a) Central reservoir (b) cylindrical reservoir

(c) Control reservoir (d) None of the above

85. Full from of AR is –

(a) Accident reservoir (b) Axle reservoir

(c) Auxiliary reservoir (d) None of the above

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86. In air brake system of coach, the following is fitted?

(a) 1 BP 1FP 1DC (b) 1BP 2FP 1DC

(c) 1BP 1FP 2DC (d) 2BP 2 BP 2DC

87. In air brake system of one coach, How many MU washers are fitted?

(a) **Four MU washer** (b) Three MU washer

(c) Two MU washer (d) None of the above

88. Control reservoir in air brake system is –

(a) To control FP pressure (b) To control DV valve

(c) **To control Brake system** (d) None of the above

89. Auxiliary reservoir is assisting in –

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

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

90. Air hose can be connected to –

(a) FP cut of angle cock (b) BP cut of angle cock

(c) **BP & FP cut of angle cock** (d) None of the above

91. The Driver reduced the BP pressure by 1.2 Kg/cm2, then it is called?

(a) **Full Service application** (b) Service application

(c) Emergency application (d) None of the above

92. Dirt Collector should be cleaning 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

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

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

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

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

A. 0.3 Kg/cm^2 **in 60 sec**

(b) 0.4 Kg/cm^2 in 4 sec

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

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

95. The function of main valve of C3W type DV is to supply requisite amount of pressure into the brake cylinder when –

(a) **BP pressure is reduced**

(b) FP pressure is reduced

(c) CR pressure is reduced

(d) BP & FP is also reduced

96. The main valve in DV exhausts pressure from brake cylinder to atmosphere, when –

(a) **BP pressure is raised**

(b) BP pressure is reduced

(c) FP pressure is reduced

(d) FP pressure is raised

97. The function of non-return valve used in air brake system is –

(a) To reduce BP

(b) **To prevent flow of air from AR to FP**

(c) To prevent CR to be charged

(d) To prevent flow of air from CR to BP

98. The trouble shooting for twin pipe system is -

(a) By pass AR

(b) Isolate DV and release brake

(c) Release BC and open vent plug

(d) **Isolate AR,DV and release brake**

99. What do you mean of SCTR?

(a) Single Car test rubber

(b) Sliding car test rig

(c) Single car test rig

(d) None of the above

100. What do you mean of SCTD?

(a) **Single Car test device**

(b) Single container tensile data

(c) Schematic car test data

(d) None of the above

101. The last step of releasing in conventional air brake system brake after brake binding is

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(a) Open vent plug of BC

(b) Take out pin of end pull rod

(c) Rotate SAB

(d) Take out pin of SAB

102. For releasing brakes, SAB is rotated to -

(a) Clock wise

(b) Towards trolley in anti clockwise

(c) Towards trolley in clockwise

(d) Anti clockwise

103. 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

104. BC vent plug is used for -

(a) Brake application

(b) Air leakage to stop

(c) Brake release

(d) Air pressure maintenance

105. For bypass the special device essential is –

(a) **For FP & BP connector**

(b) FP & BP exhauster

(c) FP & BP reducer

(d) BP & FP jointer

106. What shall be 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

107. Cut of angle cock can be fitted with

A. Brake pipe

(b) Feed pipe & brake pipe both

(c) Feed pipe

(d) None of the above

108. The control reservoir is mounted on the face of -

(a) Distribution valve

(b) Common pipe bracket

(c) Brake pipe

(d) Auxiliary reservoir

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109. The function of dirt collector is to segregate dirt particle from the air -

(a) After coming DV **(b) Before coming DV**

(c) Both (a) & (b) (d) None of the above

110. The MR pressure of engine should be

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

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

111. In air brake system branch pipe of DV to BC via common pipe bracket is –

(a) At the top **(b) At the bottom**

(c) In middle (d) None of the above

112. 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

113. The 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

114. The position of handle to closed cut of handle

(a) **Perpendicular to pipe line** (b) Parallel to pipe line

(c) Center to pipe line (d) None of the above

115. Which equipment are not charged, when DV is isolated

(a) **Control reservoir and brake cylinder** (b) Brake cylinder

(c) Control reservoir auxiliary reservoir (d) Auxiliary reservoir and brake cylinder

116. In air brake system sensitivity test is performed to know –

(a) **Working sensation of DV to decided valve**. (b) The release time of brake.

(c) Leakage in BC pressure. (d) Release time BC piston stroke.

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117. If there is leakage of air from out let Guard van valve when handle is in off position than the reason can be –

(i) Ball seat arrangement is sticky (ii) Ball fitting is eccentric

(iii) Ball has developed scratches. (iv) Seat rings are damaged.

(a) i,ii,iii **(b) ii,iii,iv** (c) iii,iv,i (d) iv,i,ii

118. If there is leakage from drain plug of dirt collector than the reason can be –

(a) Filter choked (b) Gasket damaged

(c) Hexagonal nut not full damaged (d) Sealing washer damaged

119. Slow charging from outlet of dirt collector can be due to –

(a) Filter choked **(b) Gasket damaged**

c. Hexagonal nut not full damaged (d) Sealing washer damaged

120. In a SAB double acting means –

i. Provided braking action on both the brake shoes

ii. Correct the clearance on both brake shoes

iii. Spindle inside the barrel moves in both direction

iv. Brake shoes clearance is adjusted to its correct value both ways

121. What is the function of SAB?

i. To developed automatic adjustment

ii. Regulate working of BC.

iii. To provided extra support to brake block

iv. To transfer the push of piston rod.

122. If in BC the piston movement is sticky in both application and release than it can be due to –

A. Piston return comp spring week.

B. Hexagonal nuts not equally tighten.

C. Piston rubber packing running dry

D. Piston rubber packing cut or worn out.

123. If in brake cylinder there is leakage from front cover joint during brake application

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than it can be due to –

A. Piston return comp spring week.

B. Piston cover not sealed properly.

C. Piston rubber packing running dry.

D. Piston rubber packing cut of worn out.

124. If the handle of cutoff angle cock rotates all around and does not stop at specific position that 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.

125. If there is a leakage from vent hole in an open position from cutoff angle cock than it can be due to –

A. Rubber seal are not properly placed.

B. Both or any of the seal surface is defective.

C. Any foreign particle sticking on the surface of the ball.

D. Defective "O" ring has been assembled.

126. What is the function of 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 cutoff angles cock.

D. None of the above

127. What is the function of seating washer in air hose?

A. Provide strength, which prevent the coupling to open during normal running.

B. Leak proof joints

C. To provided support to pipe (Hose) for strength

D. Supply air to various components.

128. The vent hole, provided in the cut off angle cock to (when angle cock is closed)

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A. Exhaust air pressure of air hose into atmosphere

B. The amount of vacuum

C. None of the above

D. All of the above

129. POH periodically of DV is

A. 3 year or 8 lakhs km whichever is earlier

B. 5 year or 6 lacks km whichever is earlier

C. 4 year

D. 4 year or 4 lacks km whichever is earlier

130. If 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

131. Air hose pipe are connected to

A. Feed pipe cut of angle cock

B. Brake pipe cut of angle cock

C. Brake pipe and feed pipe cut of angle cock

D. None of the above

132. 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

133. What is the function of SAB?

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A. To maintain the slacks between pull rod and wheel.

B. To maintain the slack between piston and BC.

C. To maintain the slack between brake bloke and wheel treads.

D. None of the above

134. Measured 'A' dimension between-

A. Control rod head to anchor pin

B. Pull rod to anchor pin

C. Pull rod to control rod head

D. Control rod head and barrel face

135. Warranty period of distributor valve is –

A. 24 month from the date of delivery or 34 months for date of fitment whichever is earlier

B. 36 month from the date of delivery or 24 months for date of fitment whichever is earlier

C. 48 month from the date of delivery or 24 months for date of fitment whichever is earlier

D. 36 month from the date of delivery or 12 months for date of fitment whichever is Earlier

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SHELL / INTERIOR FITTING

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

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

2. Water tank capacity of ICF coach is –

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

3. At what schedule, the painting of lavatories from inside is done?

   (a) 'A' schedule (b**) 'B' Schedule** (c) 'C' schedule (d) Special schedule

4. At what interval, check the roof leakage in all ICF coach?

   (a) One month (b) Two month (c) Three month **(d) Six month**

5. In IRS coach, what is the length of overall width?

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

6. Total water tank capacity of WRA is –

   (a) 1600 litter (b) 1700 litter **(c) 1800 litter** (d) 2000 litter

7. Under slung tank capacity of roof mounted AC coaches fitted with WRA system is –

   (a) **1600 litter** (b) 1700 litter (c) 1800 litter (d) 2000 litter

8. Over head tank capacity of WRA system is –

   (a) 100 litter **(b) 200 litter** (c) 300 litter (d) 400 litter

9. Minimum air pressure required for WRA is –

   (a) 0.35 Kg/cm^2 (b) 0.45 Kg/cm^2 (c) 0.55 Kg/cm^2 (d) 0.65 Kg/cm^2

10. Maximum air pressure required for WRA is –

    (a) 0.35 Kg/cm^2 (b) 0.55 Kg/cm^2 (c) 0.65 Kg/cm^2 **(d) 0.75 Kg/cm^2**

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11. Total no of berths in II[nd] class sleeper 3 tier is –

(a) 64 (b) 68 **(c) 72** (d) 78

12. Total no of berths in II[nd] class sleeper AC - 3 tier is –

(a) **64** (b) 68 (c) 75 (d) 56

13. Total no of berths in AC –II tier is –

(a) 42 (b) 44 **(c) 46** (d) 48

14. Total no of seats in ICF chair car coach is –

(a) 55 (b) 60 (c) 64 **(d) 73**

15. Thickness of coach flooring Ply is –

(a) 12 mm (b) 16 mm **(c) 19 mm** (d) 22 mm

16. Maximum height above rail level for floor of any unloaded vehicle is –

(a) 1150 mm (b) 1250 mm **(c) 1345 mm** (d) 1395 mm

17. Maximum height above rail level for floor of fully loaded passenger vehicle is –

(a) 1150 mm **(b) 1250 mm** (c) 1345 mm (d) 1395 mm

18. Thickness of the comprag Ply provided in floor sheet is –

(a) 9.0 mm (b) 11.0 mm **(c) 13.0 mm** (d) 16.0 mm

19. Under lavatory portion, what is diameter of compression tube?

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

20. Thickness of side well sheet is –

(a) 1.0 mm (b) 3.0 mm **(c) 2.0 mm** (d) 4.0 mm

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21. Thickness of trough floor of ICF/RCF coaches is –

(a) 1.0 mm **(b) 3.0 mm** (c) 5.0 mm (d) 7.0 mm

22. Sole bar of ICF coach consists of –

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

ATC C&W BZA

UNDER GEAR /BOGIE

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

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

2. 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

3. 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

4. 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

5. 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

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

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

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

   (a) 32.0mm (b) 35.0 mm (c**) 40.0 mm** (d) 44.0 mm

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

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

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

(a) Steel bush (**b) Rubber washer** (c) Nylon bush (d) Rubber packing

10. What types of brake block are used in ICF bogie mounted coaching stock?

(a) L type **(b) K type** (c) CI type (d) All type

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

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

12. What is the oil level in dashpot?

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

13. 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

14. 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

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

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

16. In bogie mounted air brake systems, the No of brake cylinder are -

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

17. 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

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18. 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

19. 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±0/3 mm** (c) 42±0/4 mm (d) 45±2 mm

20. 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± 0/3 mm** (d) 25± 0/3 mm

21. What is the bolster weight of ICF bogie?

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

22. 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

23. Weight of each non AC RCF bogie is -

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

24. The weight of the coach is transferred through -

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

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

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

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26. 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

27. Center pivot pin does not transmit any -

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

28. New dimension of side bearers wearing plate is -

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

29. 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

30. Condemning size of side bearer wearing plate is -

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

31. Newly dimension of side bearer wearing pieces is -

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

32. 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

33. 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**

34. Length of the anchor link is -

(a) 445± 1mm (b) 450± 1mm **(c) 451± 1mm** (d) 455± 1mm

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35. 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

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

(a) 8 (b) 12 **(c) 16** (d) 18

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

(a) 2 (b) 4 (c) 3 (d) 6

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

(a) 9.5 mm (b) 10.5 mm (c) 8.5 mm (d) 9.0 mm

39. 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

40. 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

41. Wear limit of BSS brackets is -

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

42. 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

43. 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

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44. 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

45. Diagonal gauge for BSS bracket of 116.25 t bogie is -

(a) 2573± 1.0 mm (b) 2687± 1.0 mm **(c) 2629± 1.0 mm** (d) 3612± 1.0 mm

46. 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

47. 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

48. 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**

49. 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

50. 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**

51. New diameter of pin for BSS hanger is -

(a) 35 mm **(b) 37 mm** (c) 38 mm (d) 40 mm

52. What is the hole diameter of level hanger bracket?

(a) 30 mm (b) 31 mm **(c) 32 mm** (d) 35 mm

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53. Inside diameter of anchor link silent block in is -

(a) 25.0 mm (b) 30.0 mm (c) 32.0 mm (d) 35.0 mm

54. Outer diameter of anchor link silent block is -

(a) 85.5 mm (b) 87.5 mm **(c) 90.5 mm** (d) 91.5 mm

55. New diameter for pins for 16.25 t load bearing capacity equalizing stay is

(a) 31± 05/0.2 mm (b) 33± 0.5/0.3 mm (c) 35± 1.0 mm (d) 30± 1.0 mm

56. 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± 0.2/0.1 mm** (d) 20± 0.51 mm

57. 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

58. Inside distance between horizontal bearing arms of BSS hanger is -

(a) 374 mm (b) 378 mm (c) 381 mm **(d) 384 mm**

59. Thickness of vertical arm of BSS hanger is -

(a) 20.5 mm **(b) 25.5 mm** (c) 30.5 mm (d) 23.5 mm

60. Horizontal bearing surface of BSS hanger is -

(a) 42.0 mm (b) 44.0 mm (c) 45.0 mm (d) 48.0 mm

61. 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

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62. 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

63. 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

64. Weight of the AC ICF bogie is –

(a) 5.80 t (b) 480 t **(c) 6.200 t** (d) 7.22 t

65. Oil level in hydraulic Dashpot of rajdheni and shatabiti coaches should be cheeked once in –

(a) 10 days **(b) 15 days** (c) 20 days (d) one month

66. 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

67. 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

68. 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

69. 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

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

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

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

(a) 4 **(b) 2** (c) 1 (d) None

72. 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

73. 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**

74. 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

75. How many Non return valves are provided in ICF coach fitted with WRA system?

(a) 03 **(b) 05** (c) 07 (d) 08

76. 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

77. 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**

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78. 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

79. 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

80. 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

81. 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

82. 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

83. 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

84. What is the modification of equalizing stay rod?

(a) **Fitted 16 tons in all coaches** (b) fitted 18 t o tons in all coaches

(c) Fitted 14 tons in all coaches (d) none of the above

ATC C&W BZA

85. 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

86. 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

87. Between what, crown clearance "A" is measured -

i. Between bolster & side frame
ii. Between anchor ling and primary suspension
iii. Between axle box crown and the crown bolt
iv. None of the above

88. One of the function of Anchor links?

i. To joint bolster and side frame
ii. To prevent rational movement of bolster
iii. To connect with upper plank and lower plank
iv. None of the above

ATC C&W BZA

BEARING

1. Which type of grease used in roller bearing in ICF coach?

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

2. 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

3. 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

4. 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

5. 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**

6. LHB coaches are provided with what type of bearing?

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

7. 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

8. 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

9. 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**.

ATC C&W BZA

ALARM CHAIN APPARATUS

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

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

2. 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

3. On application of pulling force of 6.4 kg, the alarm chain should be –

(a) Work (b) **Not work** (c) None of the above

4. The drop in vacuum for a vacuum brake rake on pulling of alarm chain is –

(a) 12 –15 cm (b) **13 –18 cm** (c) 10 –12 cm (d) 9 –18 cm

5. Manually operated pilot vent valve is –

(a) **PEASD** (b) PEAV (c) ACP (d) PEAMTD

6. 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

7. What is the choke size of PEAV is -

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

8. What is the chock size of Guard emergency brake valve?

(a) 8 mm (b) 6.0 mm (c) 5.0 mm (d) 4.0 mm

ATC C&W BZA

9. Passenger emergency alarm signal device are mounted on the –

(a) Under frame (b) side panel **(c) end wall** (d) Roof panel

10. 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

11. The full name of PEAV is –

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

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

12. The full name of ACP is –

(a) Air condition pipe (b) Air cooler pipe

(c) **Alarm chain-pulling** (d) Air cylinder piston

13. After ACP, it is reset and brakes are released by-

(a) DV quick released valve (b) ISO lasting handle

(c**) PEAV** (d) PEASD

14. The pulling force required for alarm chain application should be more then –

(a) 7 –15 kg **(b) 7 –10 kg**

(c) 7 –12 kg (d) 7 –18 kg

15. 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

ATC C&W BZA

16. What shall be the periodical overhauling of the alarm signal apparatus for each coach?

Every one month **(b) Every three month**.

(c) Every six month (d) Everyone year

17. In vacuum brake, what shall be period of testing alarm chain signal apparatus?

i. **Every trip primary/ secondary maintenance**.
ii. Every „A" schedule.
iii. After 15 days±3 days
iv. None of the above

18. The full name of PEASD is –

i. Passenger emergency alarm shut down
ii. Passenger emergency alarm signal device
iii. Passenger entrance admission signal device
iv. Passenger emergency admission signal device

19. 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

ATC C&W BZA

SUSPENSION

1. Primary Spring should be checked with what load?

   (a) 3 tons (b) 4 tons (c) 3.5 tons (d**) 3.8 tons**

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

   (a) 385 mm (b) 415 mm (c) 405 mm (d) 420 mm

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

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

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

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

5. What is the inside length of bolster spring suspension hanger in new condition?

   (a) 380mm (b) **384 mm** (c) 386 mm (d) 388 mm

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

   (a) 35 mm (b) 36 mm (c) **37 mm** (d) 39 mm

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

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

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

   (a) 385 mm (b) 390 mm (c) **400 mm** (d) 410 mm

ATC C&W BZA

9. At what load, the 16.25 tons AC coach bolster spring is –

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

10. In tare condition axle box spring height of ICF bogie in GS coach is -

(a) 260± 2 mm **(b) 289± 4/3 mm** (c) 290± 2/4 mm (d) 298± 2/3 mm

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

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

12. Free height of all AC ICF type axle box spring is -

(a) 375 mm (b) 360 mm (c) 372 mm (d) 337 mm

13. Free height of high capacity parcel van axle box spring is -

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

14. Free height of non-AC ICF type bolster spring is -

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

15. Free height of AC ICF type bolster coil spring is -

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

16. Free height of high capacity parcel van bolster coil spring is -

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

17. What is co lour code of 'A' group coil spring is

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

ATC C&W BZA

18. What is co lour code of "B" group coil spring is -

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

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

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

20. What should be the height of 13 tons bolster spring with a load of 3.8 tons?

(a) 280 to 285 mm (b) 287 to 300 mm

(c) **287 to 306 mm** (d) 300 to 310 mm

21. What should be the height of 16.25 tons axle box spring with a load of 3.0 tons?

(a) 260 to 280 mm (b) 280 to 290 mm

(c) **256 to 275 mm** (d) 246 to 256 mm

22. What should be the height of axle box spring with check load of 3 tons?

(a) **267 to 284 mm** (b) 270 to 290 mm

(c) 290 to 300 mm (d) None of the above

23. Capacity of hydraulic shock absorber other than 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

24. Which types of suspension are used in double acting telescopic type shock absorbers?

(a) Primary suspension **(b) Secondary suspension**

(c) Primary & Secondary suspension (d) None of the both

ATC C&W BZA

BOGIE MOUNTED BRAKE SYSTEM

1. The no. of brake cylinder fitted in a coach bogie mounted air brake system is -

   (a) One (b) Two **(c) Four** (d) None of the above

2. What is the diameter of brake cylinder of bogie mounted brake system –

   (a) 12” (b) 10” (c) 9” **(d) 8”**

3. External slack adjuster have been eliminated in bogie mounted air brake system

   (a) True (b) False (c) None of the above

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

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

5. In bogie mounted brake system, what is the diameter of pneumatic pipeline has been lied over bogie frame to inner connect the brake cylinder of one bogie?

   (a) 20mm (b) 22mm (c) 18mm **(d) 15mm**

6. The average coefficient of friction of composite brake block is –

   (a) 0.20 **(b) 0.25** (c) 0.30 (d) 0.35

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

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

8. In BMBC snout position is –

   (a) 9.0’ Clock (b) 10.0‟ Clock (c) 11.0‟ Clock (d) None of the above

ATC C&W BZA

LHB
GENERAL QUESTIONS

1. What is the full form of LHB?

   a) Lower heavy Bogie b) Linke Hofmann-Busch

   c) low height Bogie d) None of these

2. What is the length over body of LHB coaches?

   a) 23570 mm b) 23545 mm

   c) 23540 mm d) 23565 mm

3. What is the maximum width over body of LHB coaches?

   a) 3260 mm b) 3240 mm

   c) 3456 mm d) 2356 mm

4. Height of compartment floor from rail level under tare condition of LHB coaches?

   a) 1320 mm b) 1389 mm

   c) 1305 mm d) 1345 mm

5. What is Maximum height of centre line of side CBC above rail for empty vehicle?

   a) 1108 mm b) 1107 mm

   c) 1105 mm d) 1103 mm

6. What is minimum height of centre line of CBC above rail level for loaded vehicle?

   a) 1030 mm b) 1039 mm

   c) 1025 mm d) 1015 mm

7. What is the higher speed potential of LHB coaches?

   a) 160 Kmph upgradeable to 180 Kmph

   b) 180 Kmph upgradeable to 200 Kmph

   c) 160 Kmph upgradeable to 200 Kmph

   d) 200 Kmph upgradeable to 220 Kmph

8. What is the wheel gauge of LHB wheel?

   a) 1676 mm b) 1600±1 mm

   c) 1610 mm d) 1676 ±1 mm

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

   a) 910 mm b) 915 mm

   c) 912 mm d) 725 mm

ATC C&W BZA

10. What is the condemning limit of LHB wheel diameter?
    a) 813 mm b) 839 mm
    c) 845 mm d) 854 mm

11. How many brake disc on one wheel?
    a) One b) Two
    c) Three d) Four

12. Which type of Roller bearing is used in LHB coaches?
    a) Spherical Roller bearing. b) Plain Roller bearing.
    c) Cartridge Tapered Roller bearing. d) None of these.

13. What is the thickness of wheel flange in LHB coaches?
    a) 24 mm b) 29.4mm
    c) 26 mm d) 25 mm

14. What is the thickness of brake disc.?
    a) 100 mm b) 110 mm
    c) 105 mm d) 108 mm

15. What is the diameter of brake disc?
    a) 650 mm b) 630 mm
    c) 640 mm d) 645 mm

16. What is diameter of wheel axle of LHB Coach?
    a) 172 MM b) 170 MM
    c) 153 MM d) 165 MM

17. How many make CTBUs are used on LHB Coaches?
    a) 1 b) 2
    c) 3 d) 4

18. What is the maximum temperature limit for TIMKEMCTBU?
    a) 90 ºC b) 80 ºC
    c) 85 ºC d) 87 ºC

19. How many types of shock absorbers are used in LHB Coaches?
    a) 6 b) 5
    c) 4 d) 3

ATC C&W BZA

20. How many shock absorbers are used in LHB Coaches?

a) 10 nos. b) 8nos.

c) 18nos. d) 12 nos.

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

a) Primary b) Secondary

c) Yaw. d) None of these.

22 Most important condition for coupling of two coaches is -

a) Both couplers should be in alignment.

b) Both couplers should be within gathering range.

c) Both a & b d) None of above

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

a) 23590 mm b) 24000 mmc) 24095 mm d) 24225mm

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

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

25 Approx. "Riding Index" of LHB Coach –

a) 3.5 b) 3.8

c) 2.5 d) 3.0

26. Distance between inner wheels of LHB -

a) 12340 mm b) 10390 mm

c) 11545 mm d) 12010 mm

27 Distance between centre pivots -

a) 13780 mm b) 14030 mm

c) 14900 mm d) 14350 mm

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

a) 65 mm b) 70 mm

c) 75 mm d) 80 mm

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

a) 7±1 days b) 15 days

c) Every Trip d) 30 days

ATC&W BZA

30. D2 Maintenance Schedule of LHB Coach is done -

a) 30 days ± 1days b) 30 days ± 3days

c) 30 days ± 5days d) 30 days ± 7days

31. D3 Maintenance Schedule i.e. of LHB Coach is done -

a) 150 days ± 1days b) 120 days ± 3days

c) 180 days ± 15 days d) 90 days ± 7days

32. "SS-I" (Shop Schedule-1) of LHB coach is done -

a) 1 year b) 2 years

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

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

33. "SS-II" of LHB coach is done -

a) 1 year b) 2 years

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

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

34. On KM basis „SS- I" of LHB coach is done -

a) 5 lakh b) 6 lakh

c) 9 lakh d) 12 lakh

35. On KM basis „SS -II" of LHB coach is done -

a) 5 lakh b) 6 lakh

c) 12 lakh d) 24 lakh

36. „SS -III" of LHB coaches is done -

a) 5 years b) 4 years

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

d) 6 years/ 24 lakes Kms earned whichever is earlier

37. „IOH" of LHB coaches is done -

a) 18 months b) 12 months

c) 9 months d) 14 months

38. Codal life of LHB coaches is -

a) 30 years b) 25 years

c) None of the above d) 35 years

ATC C&W BZA

39. Brake power of air brake for Rajdhani coaches from outstation is -

a) 100% b) 90%

c) 85% d) 95%

40. Length of car body of LHB coach is -

a) 24000 mm b) 23540 mm

c) 2400 mm d) 24430 mm

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

a) Vertical slide protector b) Restrictor

c) Protecting device. d) None of these

42 What is the wheel base of LHB bogie?

a) 2440 mm b) 2696 mm

c) 2560 mm d) 2570 mm

W BZA

ANSWERS: -

GENERAL

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

Coach/Shell

1. Side wall of LHB Coaches are manufactured from -

a) Austenitic steel (SS 304M) b) IRSM-41

c) Ferritic steel (SS-409M) d) IRSM-44

2. Roof sheet of LHB Coaches are manufactured from -

a) Austenitic steel (SS 304) b) IRSM-41

c) Ferritic steel (SS-409) d) IRSM-44

3. End wall of LHB Coaches are manufactured from -

a) Austenitic steel (SS 304M) b) IRSM-41

c) Ferritic steel (SS-409M) c) IRSM-44

4. Trough floor of LHB Coaches are manufactured from -

a) Austenitic steel (SS 304) b) IRSM-41

c) Ferritic steel (SS-409) d) IRSM-44

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

a) Austenitic steel (SS 304) b) IRSM-41

c) Ferritic steel (SS-409) d) IRSM-44

6. Thickness of Roof sheets of LHB coaches are -

a) 2mm & 2.75 b) 1.25 mm & 1.7 mm

c) 3mm & 3.25 mm d) 2.75 mm & 2.5 mm

7. Thickness of Corrugated sheets of LHB coaches are -

a) 2 mm b) 3 mm

c) 1.25 mm d) 2.5 mm

8. Thickness of side wall sheets of LHB coaches are -

a) 2 mm b) 3 mm

c) 1.25 mm d) 2.5 mm

9. Sole bar of LHB Coaches are manufactured from -

a) Austenitic steel (SS 304) b) IRSM-41

c) Ferritic steel (SS-409) d) IRSM-44

10. Thickness of sole bar of LHB coaches is -

a) 2 mm b) 5 mm

c) 4 mm d) 6 mm

ATC C&W BZA

11. Thickness of Roof flange of LHB coaches is -

a) 2 mm b) 5 mm

c) 4mm d) 6 mm

12. Material of yaw damper bracket of LHB Coaches is -

a) Cast steel b) IRSM-41

c) Ferritic steel (SS-409) d) IRSM-44

13. Yaw damper is fitted on -

a) Sole bar b) Bogie

c) Under frame d) Between under frame and bogie frame

14. The Fire Extinguisher used in AC LHB coaches is -

a) Foam type b) DCP Type

d) CO2 type d) None of these

15. Fire Extinguisher should be refilled -

a) Every month b) Every 3 months

c) After 1 year d) On every trip

COACH/SHELL

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

AC C&W BZA

BRAKE SYSTEM

1. Torque value of brake caliper mounting bolt is -

   a) 200 NM b) 170 NM

   c) 150 NM d) 190 NM

2. 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

3. What is the capacity of AR tank?

   a) 200 ltrs b) 75 ltrs

   c) 125 ltrs d) 300 ltrs

4. 125 Ltr AR tank used for -

   a) Toilet purpose b) Braking purpose

   c) Standby d) None of these.

5. 75 Ltr AR tank used for -

   a) Toilet purpose b) Braking purpose

   c) Standby d) None of these.

6. What is the capacity of CR TANK?

   a) 5.0 Liters b) 6.0 Liters

   c) 9.0 Liters d) 8.0 Liters

7. Bore size of main BP and FP pipe is -

   a) 45 mm bore b) 25 mm bore

   c) 20 mm bore d) 18 mm bore

8. Diameter of BC line branch pipe is -

   a) 25 mm b) 20 mm

   c) 18 mm d) 16 mm

ATC C&W BZA

9. Diameter of brake indicator pipe is -

a) 18 mm b) 10 mm

c) 15 mm d) 20 mm

10. When brake indicator shows „Red", the brake will be -

a) Released b) Applied

c) Indicator defective d) none

11. When brake indicator shows „Green" the brake will be -

a) Released b) Applied

c) Indicator defective d) none

12. Brake accelerator is a -

a) Brake actuating device

b) Emergency brake application device.

c) Both a & b

d) None of these

13. 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.

14. Brake accelerator actuates during -

a) Every service application

b) Emergency brake application

c) Both a & b

d) None of these.

15. Minimum rate of pressure required to actuate the brake accelerator -

a) 1.2 kg/cm^2 per minute

b) 1.6 kg/cm^2 per minute

c) 5 to 3.2 kg/ cm^2 in 3 Sec)

d) More than 1.6 kg/cm^2 per minute

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16. Brake accelerator stops venting when BP pressure reached to -

a) 1.0 kg/cm^2 b) 3.5 - 3.0 kg/cm^2

c) 2.5 - 1.5 kg/cm^2 d) 1.5 - 1.0 kg/cm^2

17. Brake accelerator is connected to -

a) FP pipe b) BP pipe

c) BC pipe d) both a & b

18. How many pressure tanks provided on generator car.

a) 3 b) 2

c) 4 d) 5

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

a) 9 Ltr b) 5 Ltr.

c) 6 Ltr. d) 8 Ltr.

20. 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

21 How many flex ball cables provided on generator car.

a) One b) Two

c) Four d) Three

22. Flex ball cable directly connected to -

a) Brake caliper b) Brake cylinder

c) Both d) None of these

23. „ASD" stands for -

a) Anti Sleep device b) Anti slip device

c) Both a & b d) None of these

24. 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

ATC C&W BZA

25. 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

26. The applications of Dump valve is -

a) Only braking. b) Only De-braking

c) Both braking and de-braking. d) None of these

27. Electricity required for Dump valve operative -

a) 110 volt AC b) 110 volt DC

c) 24 Volt DC d) 230 Volt AC

28. Anti skid system is a -

a) Electronic system b) Pneumatic system

c) Electro Pneumatic systemd) both a & c

29. 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

30. What is the limit of air gap between sensor and phonic wheel?

a) 1.0 - 5.0 mm b) 1.0 - 10.0 mm

c) 0.9 – 1.4 mm d) 1.0 – 2.5 mm

31. What is the purpose of pressure switch?

a) To actuate antiskid system

b) To provide electric supply to brake accelerator

c) To provide electric supply to dump valve.

d) None of these

ATC C&W BZA

32. Pressure switch actuate at the train pressure reaches -

a) 0.5 bar b) 1 bar

c) 1.3-1.8 bars. d) 1.5 – 3.0 bars

33. In KNORR BREMSE system pressure switch connected to -

a) FP line b) BP line

c) BC line d) both a & b

34. In SAB WABCO system pressure switch connected to -

a) BP line b) FP line

c) BC line d) none of these

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

a) 6 b) 4

c) 8 d) 16

36. 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.

37. The „99" code shown on micro processor means -

a) Whole system working perfectly. b) Either a or b

c) Some defect in speed sensor. d) None of these.

38 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

39. 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

40. If micro processor shows „95" code means -

a) Temporary fault b) Permanent fault

c) No fault d) none of these

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

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a) 0.4 kg/cm^2 b) 1.0 kg/cm^2

c) Almost 3 kg/cm^2 d) none of these

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

a) 0.4 mm b) 2.0 mm

c) 3.0 mm d) No choke

43 What is size of air tube run through coach length?

a) 8.0 mm b) 6.0 mm

c) 10.0 mm d) 9.0 mm

44 „PEASD" stands for -

a) Passenger emergency alarm signaling device.

b) Passenger emergency alert safety device.

c) Passenger emergency alarm short device.

d) None of these

45 "PEASD" provided in LHB can be reset -

a) From under gear of coach only

b) From anywhere of inside coach

c) From the point where chain pulled.

d) Both a & b

46. 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

47. Location of isolating cock provided in „PEASD" in LHB coaches.

a) On under gear

b) Near emergency brake valve

c) No isolating cock provided

d) None of these

48. 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.

49. When emergency chain pulled, brake accelerator will -

a) Not respond

b) Respond

ATC C&W BZA

c) May be respond

d) None of these.

50. Thickness of new brake pad is -

a) 28 mm b) 30 mm

c) 35 mm d) 32 mm

51. Condemning limit of brake pad is -

a) 10 mm b) 7 mm

c) 8 mm d) 9 mm

52. Maximum brake cylinder pressure in kg/cm^2 is -a) 3.0 ± 0.1 kg/cm^2 b) 3.8 ± 0.1 kg/cm^2

c) 2.8 kg/cm^2 d) 4.0 ± 0.1 kg/cm^2

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

a) 3mm b) 1.5mm

c) 2mm d) 1 mm

54. In built slack adjuster in brake cylinder is -

a) Single acting mechanism

b) Double acting mechanism

c) No slack adjuster

d) None of these.

55. The brake cylinder is comprises

a) Power portion

b) Slack adjuster mechanism

c) Spindle reset mechanism

d) All above

56. 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.

57. 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

58. Correct direction to open slack adjuster nut of „KB" make brake cylinder is -

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a) Anti clock wise

b) Clock wise

c) Any direction

d) None of the above

59. Actual size of tool required to open slack adjuster nut of „SAB" brake cylinder is -

a) 46 mm b) 42 mm

c) 47 mm d) 45 mm

60. Dia of „SAB" make brake cylinder is -

a) 250 mm b) 256 mm

c) 245 mm d) 255 mm

61. Max. length of brake pad is -

a) 330 mm b) 400 mm

c) 350 mm d) 375 mm

62. Friction area of brake pad is -

a) 400 cm^2 b) 300 cm^2

c) 350mm d) 375 cm^2

63. 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

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

a) Green b) Red

c) Half Red, Half Green d) Yellow

65. What is the diameter meter of brake disc?

a) 110 mm b) 640 mm

c) 70 mm d) 125 mm

66. Brake disc made up of -

a) Gray Cast iron b) Cast steel

c) Special cast steel d) none

67. 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

68. The brake disc fitted on a same axle at the distance is -a) 1030 mm b) 1070 mm

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c) 1100 mm d) 1125 mm

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

a) 195 mm b) 175 mm

c) 250 mm d) 210 mm

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

a) One b) two

c) Three d) four

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

a) Single pipe air brake system

b) Twin pipe disc brake system

c) Twin pipe air brake system

d) Vacuum brake system.

e)

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

a) One b) Two

c) Three d) Four

73. Hand brake are provided on LHB power cars know as

a) Parking brakes

b) Emergency brakes

c) Flex ball remote control brakes

d) Any of above

74. Hand brakes provided on no. of wheels is -

a) Only one b) Any two

c) Any three of all d) Any of above

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

a) Wear and tear on wheels in minimized

b) Over all life of wheels is increased

c) Effective braking than old system

d) All above

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

a) One b) Two

c) Three d) Four

77. The Fins provided in between the brake discs for -

ATC C&W BZA

aTo provided effective cooling during braking

b) To minimized weight of brake disc.

c) To provided strength to break disc.

d) To increase friction property of brake disc

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

a) One b) Eight

c) Three d) Four

78. How many brake discs provided on LHB coaches are -

a) Four b) Eight

c) Twelve d) Sixteen

79. How many brake cylinders are provided in an "AC" coach?

a) 2 b) 1

c) 8 d) 4

80. How many brake cylinders are provided on an ICF Type coach?

a) 4 b) 1

c) 2 d) 8

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

a) 3 b) 2

c) 1 d) 4

82. How many brake cylinders are uses in a LHB type coaches.

a) 1 b) 6

c) 8 d) 12

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83. Outer diameter of main BP pipe line is -

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

84. Outer diameter of main FP pipe line is -

a) 20 mm b) 32mm
c) 36 mm d) 28 mm

85. Outer diameter of main BC pipe line is -

a) 22 mm b) 15 mm
c) 18 mm d) 10 mm

86. Brake caliper unit mounted on -

a) Bogie side frame b) Bogie cross beam
c) Wheel axles d) Any of above

87. By pass system is used in brake system when -

a) F.P/B.P pipe broken
b) B.P Pipe broken
c) Hose pipe broken
d) Any of these

88. 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

89. What will you do when one end BP angle cock leakage en route -

a) By pass the coach
b) Single pipe the train
c) Isolate the line from T- joint
d) Any of above

90. Brake caliper unit should be checked for -

a) Corroded part b) Worn out pins
c) Free leverage d) All above

ATC C&W BZA

91. Brake caliper unit mounted with the help of -

a) M16x60 bolt b) M 12x 60 mm bolt

c) M 24X60 mm bolt d) M 20 x60 mm bolt

92. Torque required for brake caliper mounting bolt is -

a) 170 nm b) 60 nm

c) 200nm d) 190 nm

93. Brake caliper jammed when -

a) Middle pin corroded b) Brake pad pin worn out

c) Brake cylinder lose d) Any of above

94. 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

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

a) All below

b) Cracked bellowed

c) Bent bellow

a) Torn bellow

96. 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

97. 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) FP leakage

d) Brake indicator stuck up in release position

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

a) 0.1 kg/cm^2 b) 0.3 kg/ cm^2

c) 0.2kg/ cm^2 d) 0.6 kg/ cm^2

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

ATC C&W BZA

a) 0.2 kg/ cm^2 b) 0.6kg/ cm^2

c). 2.0 kg/ cm^2 d) 1.0 kg/ cm^2

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

a) FP hose pipe b) BP hose pipe

c) Any hose pipe d) Both hose pipe

101. During Air brake testing after connecting BP hose pipe what should be checked.

a) Only FP gauge shows pressure

b) Only BP gauge shows pressure

c) Both BP & FP gauge shows pressure

d) Any of above

102. The maximum length of brake pad is

a) 330mm b)420mm

c) 360mm d) 400mm

103. During service application the brakes should apply in -

a) 3-5 sec b) 30 Sec

c) 20 Sec. d) 15-20 Sec.

104. During service application the brake accelerator will be-

a) Remains neutral b) Does not respond

c) Will Respond d) any of above

105. During full brake application the max. Pressure in brake cylinder is -

a) 1.6 Kg/Cm^2 b) 3.0 Kg/Cm^2

c) 3.8 Kg/Cm^2 d) 4.8 Kg/Cm^2

106. Charging time of CR is -

a) 150 Sec. b) 160 Sec.

c) 140 Sec. d) 120 Sec.

107. After full brake application the brake should release within.

a) 10-20 Sec. b) 15-20 Sec.

c) 15-25 Sec. d) 25- 30 Sec.

108. 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

109. In case of brake binding on both trolley what you do first -

a) Isolate both trolley

b) Isolate the DV

ATC C&W BZA

c) Pull the quick release valve wire

d) Any of above

110. 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

111. 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

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

a) The brake cylinder may defective

b) The brake caliper may jam

c) The dump valve may defective

d) Either a or b or both

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

a) Check dump valve

b) Check WSP fault

c) Remove brake caliper pin

d) Loosen slack adjuster nut of brake cylinder

114. 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

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

a) Brake cylinder cover b) Piston covers

c) Bellow d) All of above

116. 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

ATC C&W BZA

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

a) Nothing can happen

b) Pressure may leak through bellow

c) Dust can enter into brake cylinder

d) None of these

118. What is the reason of twisting of bellows?

a) Dust accumulation between bellow and piston

b) Any of these

c) Excess application of brake cylinder piston

d) Hitting of unknown objects during run

119. 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

120. If the hand brake 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 in operative

d) Above b and c both

121. 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

122. 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

123. What will you do if hand brake indicators shows ‘red’ but the hand brakes are in release condition?

a) Check the setting of flex ball cables

b) Brakeage of flex ball cables

c) Check the brake cylinder levers are bent or jammed

d) All of above

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

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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

a) Can not be checked

b) Above a & b

125. What will happened if no secondary suspension provided -

a) Riding quality will affect

b) Vertical socks will increase

c) All of these

d) Wear and tear of parts increased

BRAKE SYSTEM

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

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

COUPLER/CBC

1. Which type of CBC is fitted in LHB Coaches?
   a) E b) H
   c) EH d) None of these

2. The CBC fitted on LHB coaches" has_____ feature.
   a) Anti slipping b) Anti rotation
   c) Anti climbing d) Anti Creeping

3. The tensile stroke of CBC is -
   a) 53-58 mm b) 45-50 mm
   c) 60-65 mm d) 35-40 mm

4. The maximum buffing stroke of CBC is -
   a) 58 mm b) 75 mm
   c) 80 mm d) 85 mm

5. Horizontal gathering range of CBC is -
   a) 100 mm b) 110 mm
   c) 95 mm d) 119 mm

6. 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.

7. 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.

8. Vertical gathering range of CBC is -
   a) 90 mm b) 95 mm
   c) 85 mm d) 100 mm

9. What is the purpose of supporting device?

ATC&W BZA

a) To support CBC weight.

b) To equalize vertical forces of CBC

c) Both a & b.

d) None of these

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

a) 3-5 kmph b) 2-3 kmph

c) 5 kmph. d) 6-7 kmph

11. 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

12. Two coaches will definitely coupled if -

a) The rotary lock completely down.

b) Inverted "V" should be clear

c) Both a & b.

d) Uncoupling handle in down position.

13. The coupler should be checked by help of gauge at -

a) Every 4 months b) Every 6 months

c) Every 3 months d) Every 5 months

14. Jaw gap gauge test" is performed when knuckle in -

a) Closed position b) Open position

c) a & b d) None of above

15. During check of Jaw gap the gauge should be -

a) Pass through the gap.

b) Must not pass through the gap

c) None of above.

d) Cannot say

16. 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

17. Gauging of CBC is done when -

a) Knuckle in closed position.

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b) Knuckle in open position.

c) Either a or b

d) None of above

18. 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

19. The max height of supporting device should be

a) 190 mm b) 187 mm

c) 187.5 mm d) 189.5 mm

20. To keep the coupler in level, the maximum distance between centre of coupler and lower edge of socket should be

a) 250mm b) 260mm

c) 240mm d) 255 mm

21. Maximum torque is required for supporting device bolts.

a) 400 NM b) 200 NM

c) 500 NM d) 550 NM

22. Maximum torque is required for base plate bolts.

23. a) 45 NM b) 180-200NM

c) 500 ±25 NM d) 55±50 NM

24. Max. thickness of shim required for increase of buffer height -

a) 3 mm b) 5 mm

c) 10 mm d) 15 mm

COUPLER/CBC

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

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SUSPENSION & MISCELLANEOUS

1. Length of bogie is -

   a) 3535 mm b) 3534 mm

   c) 3600 mm d) 3530 mm

2. Weight of bogie is -

   a) 6t b) 6.3t

   c) 7.0 t d) 8.0 t

3. Width of FIAT Bogie is -

   a) 3030 mm b) 3240 mm

   c) 3040 mm d) 3010 mm

4. Distance between centre of two bogies is –

   a) 15000 mm b) 14900 mm

   c) 19500 mm d) 15090 mm

5. Capacity of luggage room of WLRRM is –

   a) 5.0 t b) 3.9 t

   c) 4.5 t d) 6.0 t

6. Cooling capacity of LHB coach is -

   a) 3.9 t b) 22.5 KW

   c) 22 KW d) 25.0 KW

7. "T" type schedule indicates -

   a) Weekly schedule b) Trip schedule

   c) Monthly schedule d) six monthly

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

   a) 36.7 mm b) 35 mm

   c) 39 mm d) 40 mm

9. New thickness of primary rubber pad is –

   a) 36.7 mm b) 30.7 mm

   c) 35.7 mm d) 38.2 mm

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

    a) Depth =10 mm b) Depth = 15 mm

    c) Depth =18 mm d) Depth = 25 mm

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11. 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

12. 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.

13. How much grease is required for Timken make bearing?
    a) 300 gm b) 350 gm
    c) 500 gm d) 400 gm

14. 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

15. Compressed length of Yaw damper is -
    a) 800 mm b) 703 ±3 mm
    c) 700 ±3 mm d) 800mm ±3 mm

16. Damper eye has 0.5 + 0 1.0mm deep crack on rubber surface, it should be
    a) Not replaced b) Replaced
    c) Either a or b d) None

17. Extended length of yaw damper is -
    a) 703±3 mm b) 1083±3 mm
    c) 700±3 mm d) 800±3 mm

18. Compressed length of primary vertical damper is -a) 294±3 mm b) 434±3 mm
    c) 298±3 mm d) 325±3 mm

19. Extended length of primary vertical damper is -a) 434±3 mm b) 294±3 mm
    c) 298±3 mm d) 325±3 mm

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20. Stroke of primary vertical damper is -

a) 160 mm b) 140 mm

c) 60 mm d) 150 mm

21. Overall stroke of yaw damper is -

a) 260 mm b) 380 mm

c) 300 mm d) 280 mm

22. Compressed length of secondary vertical damper is –

a) 240 mm b) 395± 3 mm

c) 690 mm d) 325±3 mm

23. Extended length of secondary vertical damper is –

a) 240 mm b) 635 ± 3 mm

c) 240 mm d) 325±3 mm

24. Compressed length of lateral damper is -

a) 400 mm b) 360 ± 3 mm

c) 240 mm d) 325±3 mm

25. Extended length of secondary lateral damper is –

a) 395±3 mm b) 545 ±3 mm

c) 600 mm d) 325±3 mm

26. Overall stroke of secondary lateral damper is –

a) 240 mm b) 185± 3 mm

c) 690 mm d) 325±3 mm

27. Capacity of under frame water tank fitted in AC/3 tier.

a) 650 Ltr. b) 685 Ltr.

c) 400 Ltr. D) 500 Ltrs

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

a)30 Ltr b) 50 Ltr

c) 40Ltr d) 35 Ltr

29. The CBC fitted on LHB coaches has -

a) Only pulling action

b) Only buffing action

c) Both pull & Buffing action

d) Either a or b

30 What kind of maintenance is used for rolling stock is -

ATC C&W BZA

a) Break down maintenance
b) Preventive maintenance
c) Both a & b
d) Either a or b

31. Primary maintenance is a type of
a) Break down maintenance
b) Preventive maintenance
c) Safe to run examination
d) None of these

32. 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

33. 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

34. The capacity of axle of LHB coach is -
a) 13 t b) 16 t
c) 16.25 t d) 22 t

35. "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.

36. 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

37. Free movement of Anti Roll bar is depends upon -

ATC C&W BZA

a) Condition of Grease in bracket
b) Condition of bearing at both ends
c) Condition of can of bearing
d) All of above

38. The anti toll bar must be checked for -
a) Any wear ness b) Any cracks
c) Free movement d) All the above

39. 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

40. Grease of anti roll bar should be replace during every
a) Trip schedule b) D1 schedule
c) D2 schedule d) D3 schedule

41. The torque required for axle end safety disc.
a) 170 Nm b) 180 Nm
c) 200 Nm d) 590 Nm

42. Wheel tapping is done to detect
a) Any hair crack b) Any material flow
c) Any wheel shelling d) All the above

43. Shelling on a wheel set the reason may be
a) WSP system hot function properly
b) Brake caliper may jammed
c) One or both brake cylinder may defective
d) All above

44. How much shelling on a wheel can be allowed -
a) 50 mm b) 30 mm
c) 20 mm multiple d) No shelling allowed

45. Control arm fitted with help of -
a) 2 bracket safety plated & 6 bolt
b) 6 bracket, 6- safety plated & 6 bolt
c) 2 bracket, 2 safety plate & 2 bolt
d) None of above

46. Torque required for centre pivot screw is -
a) 170 Nm b) 200 Nm

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c) 120 Nm d) 70 Nm

47. Torque required for control arm bracket bolt is -

a) 200 Nm b) 170 Nm

c) 250 Nm d) 100 Nm

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

a) BP and FP gauge are defective

b) Non return value defective

c) D.V defective

d) None of these

49. What size spanner is used to lose slack adjuster nut incase of KB make -a) AF 43 b) A F 3 6

c) AF 24/27 d) Any of above

50. The NRV is provided in

a) BC line b) BP line

c) FP line d) All above

51 f the silent block of roll link is shifted one side the roll link -

a) Not required to replace

b) Must be replaced

c) Can be allowed for one trip

d) None of these

52. 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

53. 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

ATC C&W BZA

54. 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

55. 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

56. The spring leaf is provided for -

a) To keep the fall plate in correct position

b) To hold the fall plate

c) To support the fall plate

d) Any of above

57. 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

58 The items of gangway bridge mounting should be checked during -

a) Trip schedule b) D1 schedule

c) D2 schedule d) D3 schedule

59. Whyonly 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

60. 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

61. 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

62. For free movement of sliding and vestibule doors

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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

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

a) Two b) Three
c) Four d) Six

64. How 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

65. The FRP panels are -

a) Fire retardant b) Fire proof
a) Fire friendly d) All of above

66. Curtains and Rexene seats provided on LHB coaches are

a) Fiber made b) Fire retardant
c) Fire proof d) All of above

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

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

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

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

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

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

70. 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

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

a) Availability of water

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b) Capacity of water tank

c) Location of water tank

d) To provide signal to pump control

72. The sensor is provided on -

a) All water tanks b) Two water tanks

c) One water tank d) None of these

73. 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

74. 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

75. 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

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

a) Dump valve is defective

b) Dump valve electrical supply disturbed

c) Dump valve stuck up in actuating position

d) WSP is defective

77. 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

78. The dump valve works only during -

a) Emergency braking

b) Service application

c) Deference in speed of wheel

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d) Deference in diameter of wheel

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

a) Does not respond

b) Definitely respond

c) Only one will respond

d) May be respond

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

a) Does not respond

b) Definitely respond

c) Only one will respond

d) May be respond

81. 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

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

a) Hold the bare hand on the axle box for 5 minutes

b) Hold the bare hand on the axle box for some times

c) Instant touching of axle box by bare hand

d) All of above

83. 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

84. 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

85. 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

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86. 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

87. 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

88. 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

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

a) Allow the brake pads in same condition

b) Replace the brake pads immediately

c) Replace the brake caliper unit immediately

d) None of these

99. 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

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91. 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

92. 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 125,75 ltr reservoir & CR to drain

93. The yaw damper will be defective if -

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a) Eyehole bush cracked badly

b) Any bolt is missing or broken

c) Damper badly leaky or physically damaged

d) All above

94. 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

95. 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

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

a) The curve negotiation

b) The lateral movement of coach

c) The centre pivot suspension

d) Any of above

SUSPENSION & MISCELLANEOUS QUESTIONS

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

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

C&W BZA

MAINTENANCE SCHEDULE

1. How many Maintenance Schedules are generally done in primary Maintenance Depot.
   a) One b) Two
   c) Three d) None

2. Frequency of D1 Schedule is -
   a) On Every Trip b) 7 days
   c) 15 days d) 30 days

3. Frequency of D2 Schedule is -
   a) 30 days± 3 day b) 10 days± 1 day
   c) 15 days± 1 day d) 7 days± 1 day

4. Frequency of D3 Schedule is -
   a) 1 month± 1 day b) 3 month ± 3 day
   c) 6 month ± 15 day d) 9 month ± 3 day

5. Intensive cleaning of coaches should be done in -
   a) D1 Schedule b) D2 Schedule
   c) D3 Schedule d) D1, D2 & D3

6. 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

7. 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

8. Examination of sole bar for corrosion is done in -
   a) D1 Schedule b) D2 Schedule
   c) D1, D2 & D3 Schedule d) D3 Schedule

9. Touching up damaged paint inside and outside in -
   a) D1 Schedule b) D2 Schedule
   c) D2 & D3 Schedule d) D3 Schedule

10. Checking of bogie bolster assembly and bracket etc in -
    a) D1 Schedule b) D2 Schedule
    c) D1, D2 & D3 Schedule d) D3 Schedule

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11. Washing of bogie frame thoroughly with water jet in -

a) D1 Schedule b) D2 Schedule

c) D2 & D3 Schedule d) D3 Schedule

12. Checking of functionality of brake equipment and handbrake equipment in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

13. Carrying out of functional test on pneumatic brake system in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

14. Checking of air hoses is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D3 Schedule d) D2 & D

16. Inspection of earthing equipment for wear of carbon bars -

a) D1 Schedule b) D2 Schedule

c) D3 Schedule d) D2 & D3

17. Checking of crack, damage of spring is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

18. Checking of dampers its rubber elements is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

19. 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

20. Checking of wheel profile gauge is done in

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

21. Inspection of Rotation Limiter is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

23. Inspection of grease oozing out of anti roll bar bearing is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

24. Lubrication of all pins and bushes is done in -

a) D1 Schedule b) D2 & D3 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

27. 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

28. Cleaning of Air Filter is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D2 & D3 Schedule

29. Draining of Air tank is done in -

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 & D3 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

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

a) D1 Schedule b) D2 Schedule

c) D1, D2 & D3 Schedule d) D3 Schedule

AFC C&W BZA

33. What is SS-I?

a) Shop Superintendent-I b) Shop Schedule-I

c) None of these d) All

34. Where shop schedule is carried out -

a) In primary depot b) In sick line

c) In work shops d) none

35. Frequency of SS-I is -

a) 18 month ± 30 days b) 20 months± 7 day

c) 24 months± 15 day d) D3 Schedule

36. 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

37. Frequency of SS-II is -

a) 1 year b) 2 years

c) 3 years d) 5 years

38. 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

39. Frequency of SS-III is -

a) 2 years b) 3 years

c) 6 years d) 5 years

40. 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

ATC C&W BZA

MAINTENANCE SCHEDULE

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

10.- (c) 11.- (c) 12.- (c) 13.- (c) 14.- (c) 15.- (d) 16.- (d) 17.- (c) 18.-(c)

19.- (c) 20.- (c) 21.- (c) 22.- (d) 23.- (c) 24.- (b) 25.- (c) 26.- (c) 27.-(c)

28.- (d) 29.- (c) 30.- (b) 31.- (c) 32.- (d) 33.- (b) 34.- (c) 35.- (a) 36.-(b)

37.- (c) 38.- (d) 39.- (c) 40.- (c)

Appendix A

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

S. N	TYPE OF COACH	CODE	No. of seat /berth	Weight in tons	
				Tare	Gross
1	AC FIRST CLASS SLEEPER- (EOG)	LWFAC	24	40.87	43.34
2	AC FIRST CLASS SLEEPER- (SG)	LWGFAC	24	45.90	50.70
3	AC SECOND CLASS SLEEPER- (EOG)	LWACCW	54	41.60	46.72
4	AC SECOND CLASS SLEEPER- (SG)	LWGACCW	54	48.00	55.04
5	AC THREE TIER CLASS SLEEPER- (EOG)	LWACCN	72	43.00	48.80
6	AC THREE TIER CLASS SLEEPER- LACCN (SG)	LWGACCN	72	50.50	58.50
7	AC DOUBLE DECKER AC CHAIR CAR (EOG)	ACCC DOUBLE DECKER	128	48.5	65
8	AC HOT BUFFET CAR	LWCBAC	18	42.20	48.20
9	NON AC SECOND CLASS GS	LS	100	35.29	50.49
10	NON AC SECOND CLASS THREE TIER–(SG)	LWGSCN	78	36.28	42.91
11	NON AC- LUGGAGE CUM GUARD VAN(SG)	LGSLR	36	35.40	44.50
12	AC CHAIR CAR EXECUTIVE CLASS	LWFCZAC	56	42.27	48.51
13	AC CHAIR CAR	LWSCZ AC	78	42.27	50.27
14	GENERATOR CUM LUGGAGE& BRAKE VAN	LWLRRM	5(4CREWS+ 1GUARD)	52.12	56.78

ATC C&W BZA

FREIGHT GENERAL

1. The standard wheel gauge of Goods wagon is-

   (a) 1602 mm (b) 1601 mm **(c) 1600 mm** (d) 1599 mm

2. The minimum wheel gauge of Goods wagon is-

   (a) 1599 mm (b) 1601 mm (c) 1600 mm (d) 1602 mm

3. The maximum wheel gauge of Goods wagon is-

   (a) 1601.5 mm (b) 1600 mm (c) 1598.5 mm **(d) 1602 mm**

4. Permissible variation in new wheel tread diameter for four-wheeled trolley on the same axle on BG bogie wagon is -

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

5. Permissible variation in wheel tread diameter for four-wheeled trolley on the same trolley on BG bogie wagon while changing the wheel is -

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

6. Permissible variation in wheel tread diameter for four-wheeled trolley on the same wagon on BG bogie wagon while changing the wheel is -

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

7. Permissible variation in new wheel tread diameter for six-wheeled trolley on the same axle on BG bogie wagon is -

   (a) 0.45 mm **(b) 0.50 mm** (c) 0.35 mm (d) 0.48 mm

8. Permissible variation in wheel tread diameter for six-wheeled trolley on the same trolley on BG bogie wagon while changing the wheel is -

   (a) 5.0 mm **(b) 6.0 mm** (c) 10.0 mm (d) 8.0 mm

9. Permissible variation in wheel tread diameter for six-wheeled trolley on the same wagon on BG bogie wagon while changing the wheel is -

   6 mm (b) 13 mm (c) 12 mm (d) 15 mm

10. Permissible variation in new wheel tread diameter for six-wheeled unit on the same axle on BG bogie wagon wheel is -

    (a) 0.8 mm **(b) 0.5 mm** (c) 0.6 mm (d) 0.7 mm

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11. Permissible variation in wheel tread diameter for six-wheeled unit on the same trolley on BG bogie wagon while changing the wheel is -

(a) 4.0 mm (b) 8.0 mm **(c) 6.0 mm** (d) 10.0 mm

12. Permissible variation in wheel tread diameter for six-wheeled unit on the same wagon on BG bogie wagon while changing the wheel is -

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

13. Permissible variation in new wheel tread diameter for four-wheeled unit on the same axle on BG bogie wagon is -

(a) 0.3 mm **(b) 0.5 mm** (c) 0.7 mm (d) 0.6 mm

14. Permissible variation in wheel tread diameter for four-wheeled unit on the same wagon on BG bogie wagon while changing the wheel is -

(a) 10 mm (b) 15 mm (c) 20 mm **(d) 25 mm**

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

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

16. The Std. Gap between wheel & bk. Block in BOX wagon is -

(a) 8 mm (b) 8.5 mm **(c) 6.25 mm** (d) 6.8 mm

17. Of which brake van the quick coupling is the part-

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

18. The „f" type vacuum cylinder of 533- mm diameter is used in -

(a) BWL (b) Box **(c) BRH** (d) BOXN

19. In BOX/BCXT wagon the distance between Headstock & end of train pipe is –

(a) 200 mm **(b) 216mm** (c) 300 mm (d) 516mm

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

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

21. Tare weight of the BOXN wagon is -

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

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22. Tare weight of the BRN wagon is -

(a) 25.2 tons. **(b) 24.4 tons**. (c) 23.80 tons. (d) 24.80 tons.

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

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

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

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

25. What is the length over coupler s of the BRN wagon?

(a) 14645 mm (b) 14564 mm (c) 14332 mm (d) 14463 mm

26. Gross load of the BOXN wagon is -

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

27. Gross load of the BRN wagon is -

(a) 78.92 t (b) 81.28 t **(c) 81.3 t** (d) 82.4 t

28. Axle load of the brake van goods (BVG) is -

(a) 14.2 t (b) 15.3 t **(c) 16.3 t** (d) 16.9 t

29. What is the wheel diameter on tread of the brake van goods (BVG)?

(a) 1000 mm (b) 1050 mm (c) 1060 mm **(d) 1090 mm**

30. In accident manual, train parting is under –

(a) J 3 class (b) J 4 class **(c) J 5 class** (d) J10 class

31. Overall height of BOBR wagon from rail level is –

(a) 3735 mm (b) 3998 mm (c) 4324 mm (d) 4532 mm

32. In what type of depot, the ROH of air brake wagon should not be carried out -

(A) category (b) „B‟ category
(B) (c) „C‟ category **(d) 'D' category**

33. n welding repair in UIC trolley, what RDSO pamphlet is used?

(a) R9 **(b) R7** (c) R10 (d) R21.42

34. Minimum pressure required for door operation on BOBR wagon is –

(a) 5.0 kg/cm^2 **(b) 4.92 kg/cm^2** (c) 3.9 kg/cm^2 (d) 6.3 kg/cm^2

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35. The „F" type vacuum cylinder of 560 mm diameter used in –

(a) BWL (b) BOBX **(c) BOX** (d) BVG

36. What is the diameter of side operated hand brake wheel for BOXN wagon is –

(a) 630 mm **(b) 610 mm** (c) 620 mm (d) 600 mm

37. Tare weight of the BCN wagon is -

(a) 22.47 tons. (b) 25.37 tons. **(c) 27.20 tons**. (d) 27.80 tons.

38. What type of draw gear used in brake van goods (BVG)?

(a) **Screw coupling** (b) CBC (c) HT coupling (d) NT coupling

39. Maximum pressure for door operation on BOBR wagon should not exceed -

(a) 8.56 kg/cm2 (b) 8.90 kg/cm2 **(c) 9.14 kg/cm2** (d) 9.90 kg/cm2

40. Length over buffer/coupler of the brake van match truck (BVM) is –

a) 7213 mm (b) 7313 mm (c) 7412 mm (d) 7122 mm

41. Wheel base of the brake van match truck (BVM) is –

(a) 3510 mm (b) 3515 mm **(c) 3505 mm** (d) 3525 mm

42. Newly built BOXN wagon first POH periodicity is –

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

43. Newly built BLC containers wagon first POH periodicity is –

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

44. The BOX bogie is designed for an axle load of –

(a) 20.50 t (b) 20.80 t **(c) 20.30 t** (d) 20.10 t

45. Board gauge track gauge is –

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

ATC C&W BZA

46. Types of brake system used in brake van goods (BVG) is –

(a) Air brake (b) Dual brake **(c) vacuum brake** (d) Non of the above

47. POH of BG brake van is –

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

48. Torque value of Cartridge type roller bearing cap screw is –

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

49. The distances between centers of brake cylinder fulcrum bracket and the piston rod eye which shall be –

(a) 780±5 mm **(b) 782±5 mm** (c) 784±5 mm (d) 788±5 mm

50. The clearance between pins and bushes should not exceed -

(a) 1.0 mm (b) 0.5 mm

(c) **1.5 mm** (d) None of the above

51. 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

52. During rolling out examination, it is seen that -

(a) Flat place on tyre (b) Smoke is coming from axle box

No brake binding (d) Broken spring

53. After RDSO Recommendation, What material in used BVG brake van in place of wood dust bag?

Glass wool (b) Cottonwood

(c) Steel wood (d) None of the above

54. Broad gauge roller bearing radial clearance is –

(a) 123 to .132 mm (b) 0.132 to 0.145 mm

(c) 0.145 to 0.19 mm (d) 0.19 to 0.25 mm

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55. C- class ODC shall be moved during –

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

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

56. What type of coupler used in brake van match truck (BVM)?

(a) Screw coupling **(b) CBC**

(c) Non- transition (d) None of the above

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

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

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

58. The „E" type vacuum cylinder of 457mm diameter is used in -

(a) BOBR wagon (b) Box wagon

Bk. van **(d) Four Wheeled wagon**

59. Instructions for maintenance and operation of BOX wagon, What RDSO"s technical pamphlet is used?

(a) G-71 (b) G-73 (c) G-18 **(d) G-16**

60. What RDSO"s technical pamphlet is used, for maintenance manual of Alliance-II coupler?

(a) G-45H (b) G-78 **(c) G-62** (d) G-40

61. Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogies and twin pipe air brake system, What RDSO"s technical pamphlet is used?

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

62. Instructions for inspection and maintenance of BOBR wagon, What RDSO"s technical pamphlet are used?

(a) G-73 (b) G-78 (c) G-97 (d) G- 16

63. Instructions for inspection and maintenance of CASNUB bogies, What RDSO"s technical pamphlet are used?

(a) G-97 (b) G-86 (c) G-90 **(d) G- 95**

64. Instructions for inspection and maintenance of Air brake, What RDSO"s technical pamphlet are used?

(a) G-97 (b) G-81 (c) G-73 (d) G- 71

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65. As per Railway Board, in effective percentage of wagon in open line is

a) 3.5% **(b) 2.5%** (c) 4.0% (d) 10%

66. „A" category depot will issue BPC of CC Rake valid up to Km –

(a) 4500 Km (b) 5000 Km **(c) 6000 Km** (d) 6500 Km

67. Depot, other than „A" category will issue BPC of CC rake valid up to Km –

(a) 4500 Km (b) 5000 Km (c) 6000km (d) 6500 Km

68. What time relaxation of period has been given to a loaded BOX wagon for returning for POH-

(a) After 15 days **(b) After 30 days** (c) Before 30 days (d) before 15 days

69. The mini rake will have composition of minimum –

(a) 10 wagon **(b) 20 wagon** (c) 25 wagon (d) 30 wagon

70. The free time for loading/unloading of mini rake shall be –

(a) 6 Hours (b) 8 Hours **(c) 5 Hours** (d) 2 Hours

71. The mini rake scheme will be applicable only to –

(a) **Covered wagon** (b) Open wagon (c) Tank wagon (d) Both of this

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

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

73. What time relaxation of period has been given to a empty BOX wagon for returning for POH-

(a) Before 15 days (b) After 30 days **(c) Before 30 days** (d) before 15 days

74. What do you mean by PME?

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

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

75. What do you mean by CC rakes?

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

(c) Complete coal rake (d) Both of this

76. What kind of BPC can be issued by an A category depot?

A. E2E only B. Premium only C. CC only D. All of the above

77. VHF stands for?

A. Variable High Frequent

B. Variable Handling Frequency

C. **Very High Frequency** D.Very High Frequent

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78. In freight stock maintenance, how many types of examination patterns are there?

A. **3** B. 2 C. 1 D. None of the above

79. PME stands for?

A. Periodical Maintenance Examination

B. Periodical Monitoring Examination

C. Periodic Monitoring Examination

D. Periodic Maintenance Examination

80. As per SCR Freight JPO 04/2023 a CC rake can be formed in the following depots

I. BZA, BPA, RDM

II. RDM, PAU, BZA

III. SNF, BPA, BZA

IV. GY, PAU, COA

A. I & IV only correct B. II & III only correct

C. IV & II only correct **D. I & III only correct**

81. What type of trolley a BLCS wagon is provided with?

A. CASNUB 22HS B. LCCF20C **C. LWLH25** D. CASNUB22NLB

82. How many connections do CPB of LSD fitted wagon has?

A. 3 B. 1 **C. 4** D. 2

83. Where the extra connection does comes from to CPB in LSD fitted wagon?

A. **LSD** B. FP C. BC D. DV

84. Which one is correct?

I. Rakes should be offered for examination through FOIS
II. BPC should be issued through FMM after linking the rakes to FOIS

A. I only correct B. II only correct C. I&II both not correct **D. I&II both correct**

85. If the logging of kilometers is not done by Loco pilot and not able to retrieve the earned KMs from FOIS also, what will be the validity of such CC BPC?

A. Should be revalidated B. 30days only C. Fortnight only **D. 20days only**

86. As per the SCR freight JPO 04/2023 Para No. 13.0, who has to revalidate the BPC after rake is unloaded with tippler arrangement, if TXR staff are not available?

A. Train Manager B. Points Man C. ALP **D. Train Manager & Loco Pilot**

87. How many days after last loading of a CC rake should not be allowed after issue of a CC BPC?

A. **30days** B. 29days C. 28days D. 27days

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88. An E2E BPC will be treated invalid if….

A. **Destination is not mentioned** B. Days are not mentioned

C. KMs are not logged D. Loading point is not mentioned

89. Validity of GLP check?

A. 4days **B. 400KMs** C. Up to Destination D. Loading/Unloading

90. Brake power calculation in freight rake that consisting of BMBS and under frame mounted conventional brake system, the under frame mounted brake cylinder should be considered as equivalent to how many brake cylinders?

A. **2only** B. 1only C. A&B both are correct D. A&B both are not correct

91. In brake power calculation in freight stock, Brake vans should be considered as equivalent to how many brake cylinders?

A. 2only **B. 1only** C. A&B both are correct D. A&B both are not correct

92. How many days in advance of due date an empty wagon can be marked sick for ROH/POH?

A. 90days B. 60days **C. 30days** D. None of the above

93. How many days may be a loaded wagon permitted to run which is due for ROH/POH?

B. 90days B. 60days **C. 30days** D. None of the above

94. Post loading examination is required for which of the following wagon?

A. BOXN **B. BLC** C. BTPN D. BCNHL

95. Post tippling examination is required for which of the following wagon?

A. **BOXN** B. BLC C. BTPN D. BCNHL

96. After preparation of GLP form in triplicate who need to append their signatures on the form?

A. TM & ALP B. SM & ALP C. TM & SM D. **TM & LP**

97. In terms of rake integrity how many wagons are allowed to be detached/attached for not to BPC becomes invalid?

A. Not more than 4wagons B. Less than 4wagons

C. Up to 4wagons **D. All are correct**

98. In terms of rake integrity how many wagons are allowed to be detached/attached for not to BPC becomes invalid in BLC rake?

B. One unit **B. 5wagons**

D. Up to 5wagons D. All are correct

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99. In terms of BPC validity, rake should not be stabled after issue of BPC in examination yards for not more than?

A. **24hrs** B.48hrs C. 72hrs D. 96hrs

100. Under trials by RB, BPC validity for CC rakes of BOXN/BOXNHL variants is enhanced to?

a. 9000kms or 30+5 days whichever is earlier

b. 10000kms or 35+5 days whichever is earlier

c. 9000kms or 35+5 days whichever is earlier

d. 10000kms or 30+5 days whichever is earlier

101. Under trials by RB, BPC validity for CC rakes of BCN variants is enhanced to?

A. **9000kms or 30+5 days whichever is earlier**

B. 10000kms or 35+5 days whichever is earlier

C. 9000kms or 35+5 days whichever is earlier

D. 10000kms or 30+5 days whichever is earlier

102. Under trials by RB, BPC validity for Special premium rakes of BCN/BCNA variants is?

A. 20+5days and 100% brake power

B. 15+5days and 95% brake power

C. 25+5days and 95% brake power

D. 12+5days and 100% brake power

103. Under trials by RB, BPC validity for Container rakes is enhanced to?

A. 10000kms or 35 days whichever is earlier

B. 9000kms or 35 days whichever is earlier

C. **9000kms or 30 days whichever is earlier**

D. 10000kms or 30 days whichever is earlier

104. Under trial basis which two CC depots in SCR are twined for BCN stock?

A. BPA & BZA B. BZA & COA C. GY & RDM D. **GY & BZA**

105. Under trial basis which three CC depots in SCR are twined for BOXN/BOXNHL stock?

A. **RDM, GY & BZA** B. RDM, BZA & NLPD

C. SNF, GY & RDM D. PAU, GY & BZA

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CBC & DRAFT GEAR

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

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

2. Standard buffer projection from Headstock is -

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

3. Min Permissible buffer projection from Headstock is -

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

4. Standard diameter of knuckle pivot pin is -

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

5. Permissible diameter of knuckle pivot pin is -

(a) 41 mm (b) 38.5 mm **(c) 39.5 mm** (d) 40.5 mm

6. Standard diameter of Clevis pin is -

(a) 35 mm **(b) 38 mm** (c) 39 mm (d) 37 mm

7. Permissible diameter of Clevis pin is -

(a) 35.8 mm (b) 38.5 mm **(c) 36.5 mm** (d) 37 mm

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

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

9. Standard dimension of distance between the nose of Knuckle and guard arm is

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

10. Wear limit of distance between the nose of Knuckle and guard arm is -

(a) 140 mm (b) 155 mm (c) 125 mm **(d) 130 mm**

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

(a) 1105 mm (b) 1115 mm (c) 1015 mm (d) 1100 mm

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

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

13. No. of CBC gauges are –

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

14. For short case, what shall be the max buffer projection from the Headstock on BG wagon?

(a) 480 mm **(b) 456 mm** (c) 460 mm (d) 510mm

15. For short case, what shall be the min. buffer projection from the Headstock on BG wagon?

(a) 420 mm (b) 440 mm (c) 410 mm **(d) 406mm**

16. What is the max. Permissible wears in Draw Bars shackle pinhole?

(a) 5.23 mm **(b) 6.35 mm** (c) 7.21 mm (d) 6.69mm

17. What is the max. Permissible wear in draw Bars cotter pin hole?

(a) 10.7 mm (b) 12.3 mm **(c) 12.7 mm** (d) 13.1mm

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

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

19. The high capacity draft gears is -

(a) Mark -20 **(b) Mark 50** (c) CF 21 (d) DF 39

20. The high capacity draft gears is -

(a) RF361 (b) RF-401 (c) RF-600 (d) RF-21

21. To adjust buffer height for 930 mm wheel diameter on BCN wagon except CASNUB22W packing piece used is –

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

22. What type of center buffer coupler used in Indian Railway?

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

23. 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

24. The yield strength of knuckle of material AAR –M- 201 Grade „C"

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(STD) is –

(a)180 t (b) 171 t (c) 142 t **(d) 132 t**

25. The yield strength of knuckle of material AAR –M- 201 Grade „E" (HT) is –

a) 180t (b) 171 t (c) 142 t (d) 132 t

26. The yield strength of coupler body of AAR Grade „C" (STD) is –

(a) 180 t **(b) 169 t** (c) 179 t (d) 159 t

27. The yield strength of coupler body of material AAR-M- 211 Grade „E" (HT) is –

(a) 180 t (b) 200 t **(c) 205 t** (d) 211 t

28. 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

29. The working strength of center buffer coupler is -

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

30. The diameter of knuckle pivot pin is –

(a) 40.0 mm (b) 38.0 mm (c) 37.0 mm (d) 35.0 mm

31. In (HR-40 I) Draft gear, the pack with 11 Nos of rubber pads and 10 Nos of spacer plates, when assembled in the housing with follower shall not be less then –

(a) 638 mm **(b) 632 mm** (c) 660 mm (d) 620 mm

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

(a) 300 t (b) 320 t **(c) 290 t** (d) 270 t

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

(a) 300 t **(b) 330 t** (c) 320 t (d) 370 t

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

(a) 240 t (b) 250 t (c) 241 t **(d) 251 t**

35. The ultimate tensile strength of knuckle of AAR-M- 201 & 211 Grade „E" (HT) is –

(a) 250 t (b) 280 t **(c) 295 t** (d) 305 t

36. The conventional screw coupling has a working load of –

(a) 2.9 t **(b) 22.5 t** (c) 24.3 t (d) 20.3 t

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37. The working strength of center buffer coupler is –

(a) 180 t (b) 160 t **(c) 120 t** (d) 80 t

38. The working strength of Alliance –II coupler is -

(a) 100 t (b) 80 t (c) 70 t **(d) 54 t**

39. Which among the buffer gear assembly absorbing the buffer impact?

(a) **Buffer spring** (b) Plunger (c) Buffer casting (d) Spindle

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

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

41. Material AAR –M- 201 & 211 Grade „E" coupler is called as –

(a) **High tensile** (b) Non- Tensile (c) Standard (d) None of the above

42. Clevis and Clevis pin are the part of –

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

(c) Transition coupler (d) Draw bar

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WHEEL & AXLE

1. Standard diameters of wheel on tread on BOXN Wagon is -

   (a) 1010 mm **(b) 1000 mm** (c) 950 mm (d) 906 mm

2. Minimum diameters of wheel on tread on BOXN Wagon during service is -

   (a) 1000 mm (b) 960 mm **(c) 906 mm** (d) 915 mm

3. Standard diameter of wheel on treads on BOX Wagon is -

   (a) 960 mm **(b) 1000 mm** (c) 906 mm (d) 860 mm

4. Minimum diameter of wheel on treads on BOX Wagon during service is -

   (a) 860 mm (b) 960 mm (c) 906 mm (d) 990 mm

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

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

6. The axle load of BOX, BCX, BRH wagon is -

   (a) 22.9 t **(b) 20.32 t** (c) 16.3 t (d) 12.2 t

7. The axle capacity of BVZC, CRT, BTAL, BTAG, BTPGL wagon is -

   (a) 22.9 t **(b) 20.3 t** (c) 16.3 t (d) 12.2 t

8. The axle capacity of TPR, TORS, and TCL wagon is –

   (a) 22.9 t (b) 20.3 t **(c) 16.3 t** (d) 12.2 t

9. The wheel gauge should be measured on –

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

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

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

11. In CTRB the grease use per Axle box is -

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

12. Maximums permissible wear on outer collar size of journals 255*127, 254*127, 229*114 are –

    (a) 6.0 mm (b) 11 mm (c) 8.0 mm **(d) 5.0 mm**

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13. RDSO has stipulated three intermediate profile BOXN/BCN wagon with flange thickness as 20,22 and -

(a) 28 mm **(b) 25 mm** (c) 24 mm (d) 23 mm

14. The condemning wheel diameter of BVG is -

(a) 919 mm (b) 906 mm (c) 925 mm **(d) 990 mm**

15. The condemning diameter of wheel of B0I wagon is -

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

16. The new diameter of wheel for BOY wagon is -

(a) 990 mm (b) 1090 mm **(c) 1000 mm** (d) 915 mm

17. The condemning diameter of BOBR wheel is -

(a) 815 mm **(b) 906 mm** (c) 990 mm (d) 860 mm

18. The condemning diameter of BTPN wheel is -

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

19. The condemning diameter of BWL wheel is -

(a) 813 mm (b) 906 mm (c) 915 mm **(d) 860 mm**

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

(a) 14 mm (b) 16mm (c) 18mm (d) 120 mm

21. Permissible maximum flat surface on tread on other BG wagon are –

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

22. What should be permissible limit of ovality and taper on the journal?

(a) 0.5 mm (b) 0.05 mm **(c) 0.1 mm** (d) 0.15mm

23. Permissible maximum flat surface on tread on IRS BG wagon is –

(a) 75 mm (b) 50 mm (c) 60 mm (d) 70 mm

24. What is the minimum lateral play between axle box lug and horn check for UIC type trolleys?

(a) 20 mm (b) 22 mm (c) 18 mm (d) 12 mm

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25. What is the maximum lateral play between axle box lug and horn check for UIC type trolleys?

(a) 20 mm (b) 22 mm **(c) 25 mm** (d) 28 mm

26. Minimum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –

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

27. Maximum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –

(a) 12 mm (b) 14 mm (c) 16 mm **(d) 18 mm**

28. Maximum permissible wear on length of journal size of 255*127, 254*127,229*144 are-

(a) 6.0 mm **(b) 11 mm** (c) 5.0 mm (d) 8.0 mm

29. Maximum permissible wear on inner collar size of journal 255*127,254*127,229*144 are-

(a) 6.0 mm (b) 11 mm (c) 5.0 mm (d) 8.0 mm

30. The wheel gauge measures -

A. The distance between flanges of two wheels on same axle.
B. The distance between dia and axle.
C. The distance between journal and bearing.
D. The distance between two wheel.

31. What is an integrated portion of the axle?

(a) Cap (b) Roller bearing
(c) **Journal** (d) None of the above

32. For measuring the diameter of ovality & taper of the journal, how many locations are needed?

A. Two Location both the vertical and horizontal axis
B. Three locations both the vertical and horizontal axis
C. Three location only vertical axis
D. None of the above

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AIR BRAKE

1.Standard dimension 'e' in SAB on Goods stock is -

(a) 570 mm **(b) 575 mm** (c) 580 mm (d) 565 mm

2.In yard leaving, minimum Permissible dimension 'e' in SAB on Goods stock is –

(a) 555 mm (b) 570 mm (c) 565 mm (d) 580 mm

3.The color coding of distributor valve of air brake goods stock is –

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

4.In air brake empty stock end-to-end goods rakes, the empty rake after unloading should be offered for intensive examination before-

(a) Next station **(b) Next Loading** (c) Next Unloading (d) 36 Hours

5.In air brake end-to end rakes, after intensive examination validity of BPC remain up to the –

(a) Next station (b) Loading point

(**c)Destination point** (d) 72 Hours

6.Control rod diameter of air brake wagon is –

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

7.Piston stroke of BOXN wagon in empty conditions is -

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

8.Piston stroke of BOXN wagon in loaded conditions is -

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

9.Piston stroke is empty conditions of BOY wagon is -

(a) 90±10 mm (b) 90±5 mm (c) 90±15 mm (d) 90±10/5 mm

10. Piston stroke is loaded conditions of BOY wagon is -

(a) 135±5 mm **(b) 135±10 mm** (c)135±20 mm (d) 120±10 mm

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11. In air brake stock, BPC becomes invalid, if the rake is stabled in any examination yard-

(a) 24 hours (b) 36 hours (c) 48 hours (d) 12 hour

12. Dirt collector should be cleaned within-

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

(d) 3 month

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

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

14. How much air pressure should be dropped in brake van/ last vehicle for continuity test?

(a) 0.8 Kg/Cm2 **(b) 1.0 Kg/Cm2** (c) 1.2 Kg/Cm2 (d) 1.5 Kg/Cm2

15. The Color of Brake Pipe in Twin pipe brake system is -

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

16. The Color of Feed Pipe in twin pipe wagon is -

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

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

(a) 4.8 Kg/Cm (b) 4.7 Kg/ Cm^2 **(c) 5.0 Kg/ Cm^2** (d) 6.0 Kg/ Cm^2

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

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

19. What should be the effective pressure in brake cylinder during full service application?

(a) 3.6 Kg/ Cm^2 (b) 3.2 Kg/ Cm^2 **(c) 3.8 Kg/ Cm^2** (d) 4.1 Kg/ Cm^2

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

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

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

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

22. If ELD handle is kept on loaded position of empty wagon, the result will be -

(a) Air Brake Power **(b) Brake binding** (c) None of the above

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23. In one BOXN wagon total no. of brake block are -

(a) 4 **(b) 8** (c) 12 (d) 16

24. 'A' dimension in BOXN wagon is -

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

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

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

26. DV is directly attached with-

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

27. The diameter of air brake cylinder BOXN wagon is-

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

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

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

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

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

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

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

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

(a) „E" dimensions (b) „C" dimension **(c) 'A' dimension** (d) "d" dimension

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

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

33. In single pipe air brake system, BP is charged with –

(a) 6·0.2 Kg/Cm2 **(b) 5 Kg/Cm2** (c) 5.0·0.2 Kg/Cm2 (d) 6.0·0.1 Kg/Cm2

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

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

35. In twin pipe system the Auxiliary Reservoir pressure should be -

(a) 6.0 kg/ Cm^2 (b) 4.8 Kg/ Cm^2 (c) 5.0 Kg/ Cm^2 (d) 6.5 Kg/ Cm^2

36. With The help of cut of angle cock, the air pressure in air hose is exhaust or closed -

(a) **True** (b) false (c) None of the above

37. The brake power of CC rake from nodal point is –

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

38. Brake power certified issued for such Premium rakes will be valid for –

(a) 7±4 days (b) 10±$^2{}_0$ days **(c) 12 ±3 days** (d) one month

39. The amount of air pressure in control reservoir of twin pipe system is -

(a) 3.8 Kg/ Cm^2 (b) 6.0 Kg/ Cm^2 **(c) 5.0 Kg/ Cm^2** (d) 4.8 Kg/ Cm^2

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

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

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

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

42. Diameter of brake pipe and feed pipe is (In a good train)-

(a) 28 mm (b) 34 mm **(c) 32 mm** (d) 36 mm

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

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

44. How many cut of angle cock are provided in a vehicle in twin pipe system-

(a) Two **(b) Four** (c) Six (d) None

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

(a) **Horizontal** (b) vertical (c) None of the above

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46. If brake block is not releasing, pin is remove to release the brake -

(a) Anchor link pin (b) control rod pin **(c) Pull rod pin** (d) equalizing pin

47. During Brake application, air flow from -

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

48. The position of handle to close angle cock is -

(a) Horizontal to pipe line **(b) Perpendicular to pipe line** (c) Center to pipe line

49. The position of handle to open angle cock is -

(a) **Parallel to pipe line** (b) Perpendicular to pipe line (c) Center to pie line

50. The leverage Ratio is obtained by -

(a) Brake cylinder (b) Tie Rod (c) Empty Rod **(d) L/E Dives**

51. BP pressure in working train is -

(a) 6.0 Kg/ Cm^2 (b) 5.5 Kg/ Cm^2 **(c) 5.0 Kg/ Cm^2** (d) 15.2 Kg/ Cm^2

52. The color for brake power certificate for Premium end-to-end rake is-

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

53. The en-route Brake power percentage of goods train should be -

(a) 85% (b) 75% (c) 95% **(d) 90%**

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

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

55. What is the piston stroke of BVZC wagons?

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

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

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

57. The diameter of piston rod of 355-mm brake cylinder is -

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(a) 40 mm (b) 38 mm (c) 30 mm (d) 25mm

58. The diameter of piston rod of 300-mm brake cylinder is –

(a) 40 mm (b) 36 mm (c) 32 mm **(d) 30 mm**

59. „A" dimension of the BOBRN wagon is -

(a) 29+_ 2 0 mm **(b) 27+_ 2 0 mm** (c) 33± 2 mm (d) 25+_ 5 2 mm

60. What is the color of BPC of air brake system?

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

61. What is the color of BPC of air brake CC rake?

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

62. During brake release, air from BC goes to -

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

63. In twin pipe system, the FP is directly joined to branch pipe of -

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

64. The max. Air pressure in BC after brake release is -

(a) 4.8 Kg/ Cm^2 (b5 Kg/ Cm^2 **(c) 0.0 Kg/ Cm^2** (d) 2.5 Kg/ Cm^2

65. The max. Air pressure in BC during application is -

(a) 4.8±1 Kg/ Cm^2 (b) 5.0 Kg/ Cm^2 **(c) 3.8 ± 0.1Kg/ Cm^2** (d) 3.8 Kg/ Cm^2

66. The capacity of AR for wagon is-

(a) 200 lit. (b) 200 lit. **(c) 100 lit**. (d) 150 lit.

67. In conventional air Brake system, the diameter of brake cylinder is-

(a) 255 mm **(**b) 155 mm **(c) 355 mm** (d) 455 mm

68. The air pressure during charging in single pipe system is -
In AR-

(a) 5 kg/ cm^2 (b) 5.2 kg/ cm^2 (c) 6.1 kg/ cm^2

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69. As per population of air brake stock the percentage of distribution value should be kept as spares -

(a) 10% (b) 2% **(c) 5%** (d) 10%

70. The diameter of ball in internal ball valve of cut of angle cock is -

(a) 15 mm (b) 13 mm (c) 17 mm **(d) 10 mm**

71. The diameter of air brake cylinder for BVZC is -

(a) 400 mm **(b) 300 mm** (c) 355 mm (d) 295 mm

72. The diameter of Std. Air brake Pressure gauge is-

(a) 60 mm (b) 70 mm (c) 90 mm **(d) 100 mm**

73. What type of cut of angle cock fitted in goods stock?

(a) Flat type **(b) Ball type** (c) Square type (d) None of the above

74. Full form of BP is -

(a) Big pipe **(b) Brake pipe** (c) Bent pipe (d) None of the above

75. For testing DV the time required for filling BC in single pipe system from 0-36 kg/cm2 is

(a) 20-25 sec **(b) 18-30 sec** (c) 15-25 sec (d) 30-40 sec

76. What should be the pressure in feed pipe?

(a) 3.8 Kg/cm^2 (b) 5.0 Kg/Cm^2 **(c) 6.0 Kg/Cm^2** (d) none of the above

77. When DV is working condition the position of DV handle is -

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

78. "E" dimension for SAB-600, in wagon is -

(a) 444 – 474 mm **(b) 555-575 mm** (c) 500- 575 mm (d) 440- 575 mm

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

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

80. Piston stroke of the BVZC is -

(a) 60±10 mm **(b) 70±10 mm** (c) 65±10 mm (d) 75±10 mm

81. For testing DV the time required for charging CR from 0-48 kg/cm2 is -

(a) 290±20 sec (b) 150±20 sec **(c) 185±25 sec** (d) 200±20 sec

82. In air brake system branch pipe of DV to AR is connected via common pipe bracket is -

(a) At the bottom **(b) In Middle** (c) At Top (d) To AR

83. The type of joint for FP& BP is -

(a) Grip seal **(b) Flange** (c) Thread coupling (d) knuckle

84. In air brake system branch pipe of DV to BC is connected via common pipe bracket is -

(a) **At the bottom** (b) In Middle (c) At the Top (d) To AR

85. FP charges -

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

86. Which equipments are not charged, when C3W DV is isolated in twin pipe system?

(a) Brake cylinder only (**b) Control reservoir and brake cylinder**

(c) Control reservoir and auxiliary reservoir (d) Auxiliary reservoir and Brake cylinder

87. The leakage rate in BP or FP in air brake system is -

(a) 04 kg/ cm^2 /Min **(b) 0.25 kg/ cm^2/Min**

(C) 0.3 kg/ cm^2/Min (d) 0.1 kg/ cm^2/Min

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88. The pressure of Auxiliary reservoir makes to work -

(A) Common pipe bracket **(b) Brake cylinder**

(c) Control Reservoir (d) DV

89. With what pressure of AR twin pipe system works -

(a) BP Pressure only **(b) FP Pressure only**

(c) BP&FP Pressure (d) BC Pressure

90. In single pipe system works -

(a) **BP Pressure** (b) FP Pressure (c) BP& FP Pressure (d) none of the above

91. 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

92. SAB adjust clearance between -

(a) **Wheel and brake block** (b) Tie Rod and Brake block

(c) Anchor pin to control rod (d) None of the above

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

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

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

94. What do you mean of SWTR?

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

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

95. In an air brake goods wagon in empty condition the handle of E/L box if kept in loaded condition, it resettled in -

(a) **Brake binding** (b) Brake power

(c) Poor brake power (d) None of the above

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96. SAB fitted in-

(a) End pull rod **(b) Main pull rod**

(c) Control rod (d) Dead equalizing lever

97. Dropping BP pressure to do full service application is -

(a) 2.0 to 3.0 kg/ cm^2 (b) 3.0 to 3.2 kg/ cm^2

(c) 1.3 to 1.6 kg/ cm^2 (d) 1.5 kg/ cm^2

98. The function of dirt collector is to segregate dirt portion from the air -

(a) After coming DV **(b) Before coming to DV** (c) None of the above

99. What is the function of Control reservoir in air Brake system?

(a) To control the air pressure **(b) helps in brake application**

(c) To control the brake system (d) To control the AR

100. Auxiliary reservoir is assisting in –

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

© **Sanding air to BC** (d) Charging of CR

101. When isolating handle of C3W type DV is kept in horizontal at charging position -

(A) Piston rods of BC come out (b) Piston rod of BC close not come out

(c) Brake applies and releases (d) Nothing happens

102. The control reservoir is mounted on the other face of –

(a) Distributor valve (b) Brake cylinder

(c) Common pipe bracket (d) Axially reservoir

103. Cut of angle cock can be fitted with –

(a) Feed pipe only (b) Brake pipe only

(c) Feed pipe & brake pipe both (d) None of the above

104. BP & FP Air hose pipe can be fitted to cut off

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angle cock by-

(a) Socket (b) Coupling

(c) Flange **(d) Nut**

105. The main BP pressure in brake van of working train with 56 wagon is -

(a) 4.8 · 0.1kg/cm^2 (b) 4.5·0.1kg/ cm^2 (c) 6.0·0.1kg/ cm^2 (d) None of the above

106. While some defect is notice in brake pipe in twin pipe system, the train can be worked as single pipe system -

(a) **By passing BP** (b) Not worked

(c) Work, any change (d) None of the above

107. If C3W type DV is manually released, pressure is released from -

(a) AR (b**) Control reservoir**

(c) Brake cylinder (d) All above

108. Full form of AR is -

(a) Accident of reservoir (b) Axle ring

(c) Auxiliary reservoir (d) None of the above

109. Full form of BC is -

(a) Brake control (b) Beside coach

(c) Brake cylinder (d) None of the above

110. The positions of Cut of angle cock handle while open is -

(a) **Parallel to pipe** (b) Perpendicular to pipe

(c) None of the above (d) Parallel to pipe & Perpendicular to pipe

111. The full form of CR is -

(a) Central Reservoir (b) Cylindrical Reservoir

(c) Control reservoir (d) None of the above

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112. During twin pipe charging position, air pressure in Auxiliary Reservoir is -

(a) 6.5kg/ cm^2 (b) 5.8 kg/ cm^2 **(c) 6.0 kg/ cm^2** (d) None of the above

113. 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

114. For by pass the special device essential is -

(a) FP &BP exhauster (b) FP&BP reactor

(c) By pass coupler (d) BP FP jointer

115. In twin pipe system, the BP is directly jointed to branch pipe of -

(a) AR (b) BC

(c) DV **(d) Common pipe bracket.**

116. BC vent plug is used for-

(a) Brake application **(b) Brake release**

(c) Air leakage to stop (d) Air pressure maintenance

117. Brake system can be defective due to-

(a) Train movement (b) Airflow

(c) Bk. application & release **(d) Cattle run over**

118. The length of air hose is -

(a) 796 +-6 mm (b) 784+-6 mm

(c) 790+-6.1 mm **(d) 660+-6 mm**

119. In air brake system, during sensitivity test Brake should apply when the rate of drop of air pressure in BP is -

(a) 0.3 kg/ cm^2in3 sec (b) 0.4 kg/ cm^2 in4 sec
(c) 0.5 kg/ cm^2 in5 sec **(d) 0.6 kg/ cm^2 in 6 sec**

120. In air brake system, during insensitivity test Brake should not apply when the rate of drop of air pr in BP is -

(a) 0.8 kg/ cm^2in 8 sec (b) 0.4 kg/ cm^2 in 4 sec

(c) 0.5 kg/ cm^2 in 5 sec **(d) 0.3 kg/ cm^2 in 60 sec**

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121. the permissible leakage rate in air brake system in centrifugal dirt collector is -

(a) 02 kg/ cm^2/min (b) 0.2 kg/ cm^2/min

(c) 0.20 kg/ cm^2/min **(d) No leakage**

122. To uncouple BP or FP air hose it is essential to

(a) Open adjacent angle cock **(b) Close adjacent angle cocks**

(c) Close supply of air from loco (d) None of the above

123. In air Bk. system the rate of leakage should not be more then -

(a) 0.025 kg/ cm^2 /min **(b) 0. 25 kg/ cm^2/min**

(c) 0.0025 kg/cm^2/min (d) 0.255 kg/ cm^2/min

124. For running 1200mt long train, it is essential to have -

a. Single pipe graduated release air bk. System

b. Twin pipe graduated release air bk. System

c. Single & double pipe-graduated release air bk. System

d. None of the above

125. In working train having 56 wagon, the air pressure in Bk. van is -

0.25 kg/ cm^2 less then 5kg/ cm^2 (b) 0. 2 kg/ cm^2/min less then 5kg/ cm^2

(c) 4.8 kg/ cm^2 (d) None of the above

126. For releasing Brakes, SAB is rotated -

(a) Toward end panel clockwise (b) Toward trolley in clockwise

(c) Toward trolley in anticlockwise (d) Toward end panel Anti clockwise

127. The std. free heights and exert force of BC return spring is –

(a) 600 mm- 200 kg/cm2 (b) 700 mm- 250 kg/cm2

(c) 730 mm- 125 kg/cm2 (d) 800 mm- 100 kg/cm2

128. The ELB device indicator plate shows -

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

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

129. When isolating handle of KE type DV is kept in horizontal at charging position -

(a) Piston rods of BC come out (b) Piston rod of BC close not come out

(c) Brake applies and releases (d) Nothing happens

130. The trouble shooting for branch pipe broken of DV to BC is -

a. Pipe to be tightened by wire and DV, AR to be isolated followed by manual releasing

b. Pipe to be tightened by wire, release brake by rotating SAB and run train

c. Non of the above

131. The first step of releasing brake binding in conventional A/B system is to -

Open vent plug of BC (b) Rotate SAB

(c) Take out pin of SAB **(d) Isolate DV & release manually.**

132. The total no. of MU washer in a twin pipe wagon is –

(a) **4** (b) 4 palm & rubber sealing ring

(c) 4 coupling head no washer (d) 6

133. The Type of dirt collector, used in wagon is -

(a) 2-way **(b) 3-way**

(c) Branch pipe of BP to DV (d) In BP

134. The trouble shooting for twin pipe system, AR broken is -

(a) Isolate DV and release brake **(b) Isolate DV, AR & release brake**

(c) Release BC & open vent plug BC (d) By-pass AR

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135. After isolating DV, handle should be -

(a) Tightened with thread (b) Keep horizontal and tightened with wire

(c) Tightened with wire (d) Open the handle

136. 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 when a spring brief pull is given to the lever

D. To release brake pipe pressure on AR chamber

137. The function of Non return valve used in air brake system is -

To prevent flow of BP **(b) To prevent flow of air from AR to FP**

(c) To prevent flow of Air from CR to BP (d) To prevent CR to be charged

138. The function of main valve is to supply requisite amount of pressure into the brake cylinder when-

(a) **BP pressure is reduced** (b) FP pressure is reduced

BP &FP is also reduced (d) BP pressure is reduced

139. The main valve in DV exhausts pressure from brake cylinder to atmosphere, when

BP pressure is reduced **(b) BP pressure is raised**

(c) FP is reduced (d) FP pressure is raised

140. What type of grease to be used after cleaning and inspection all parts of slack adjuster?

(a) Graphite grease **(b) Servogan - 2**

(c) Servo- germ 4 (d) None of the above

141. The function of Return spring provided in air brake cylinder is -

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B. To push the spring out side the piston

C. To push the piston inside the cylinder

D. To push the deed lever

E. To push the control rod

142. Air Hoses are connected to-

A. Feed pipe cut of angle cocks only

B. Brake pipe cut of angle cocks only

C. Brake pipe & Feed pipe cut of angle cocks both

D. None of the above

143. 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

144. „A" dimension is measured between-

A. SAB barrel & control rod head

B. SAB nut & control road nut

C. Anchor pin & Control Rod head

D. None of the above

145. POH periodicity DV is done -

A. 6 year or 5 Lakh km whichever is earlier

B. 5 year or 5 Lakh km whichever is earlier

C. 4 year

D. 4 year or 4 Lakh km whichever is earlier

146. The vent hole, provided in the cut of angle cock to exhaust (when angle cock is closed)-

A. Air hose side air pressure into atmosphere

B. Twin pipe side air pressure to atmosphere

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C. None of the above

147. In case air brake CC rake are used as mini rakes, Close circuit pattern will be followed with BPC being valid for –

A. 2000 Km or 20 days Whichever is earlier

B. 4500 Km or 20 days whichever is earlier

C. 6000 Km or 30 days Whichever is earlier

D. 3000 Km or 10 days Whichever is earlier

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BOGIE

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

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

2.Permissible thickness of UIC/CASNUB bogies composite brake block is -

(a) 20 mm (b) 10 mm (c) 9.0 mm (d) 8 mm

3.Standard clearance between side bearers on UIC stock is-

(a) 3 mm **(b) 4 mm** (c) 6 mm (d) 5 mm

4.Permissible clearance between side bearers on UIC stock is-

(a) **6 mm** (b) 4 mm (c) 3 mm (d) 2 mm

5.How many types of CASNUB version in Indian Railway have been used?

(a) 4 (b) 6 **(c) 10** (d) 7

6.What is the permissible variation in a group for load bearing & snubber spring?

(a) 2.0 mm **(b) 3.0 mm** (c) 4.0 mm (d) 5.0 mm

7.The length of brake block of BOXN wagon is –

(a) 350 mm (b) 400 mm **(c) Not specified** (d) 450 mm

8.Variation in camber between any two springs on a bogie under load should not exceed –

(a) 10 mm (b) 11 mm **(c) 03 mm** (d) 14 mm

9.What is the Std. thickness of brake block of BOXN wagon is –

(a) 52 mm (b) 54 mm (c) 56 mm **(d) 58 mm**

10. How many side frames fitted in CASNUB trolley / bogie?

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

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11. What is the axle load of CASNUB trolley expects CASNUB 22HS?

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

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

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

13. What type of side bearers fitted in CASNUB 22w bogie?

(a) CC type **(b) Roller type** (c) EM Type

14. What type of side bearers fitted in CASNUB 22w(m) bogie?

(a) **CC type** (b) Spring type (c) Roller type

15. What type of pivot used in CASNUB 22w trolley?

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

16. What type of pivot used in CASNUB 22w(m), 22NL and other type of CASNUB trolley?

(a) IRS type **(b) UIC spherical type** (c) other type

17. What is the nominal lateral clearance between side frame & bolster in CASNUB 22HS?

(a) 18 mm (b) 10 mm **(c) 25 mm** (d) 22 mm

18. What is the wear limit of axle box/adopter sides (Cylindrical roller bearing) in CASNUB Bogie?

(a) **3 mm** (b) 2 mm (c) 4 mm (d) 5 mm

19. What is the nominal lateral clearance between side frame & bolster in CASNUB 22W, 22WM, 22NL, 22NLB?

(a) 16 mm (b) 11mm **(c) 18 mm** (d) 20 mm

20. What is the nominal longitudinal clearance between side frame & Axle box/adopter of 22W(M) bogie?

(a) 5 mm (b) 8 mm **(c) 10 mm** (d) 12 mm

21. What is the nominal longitudinal clearance between side frame & Axle box/adopter 22W, 22W(Retro) trolley?

(a) **2 mm** (b) 4 mm (c) 6 mm (d) Nil

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22. What is the nominal lateral clearance between side frame & axle box/adopter Casnub22NL, 22NLB, 22HS bogie?

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

23. What is the standard wheel profile use in CASNUB bogie after the route radius?

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

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

(a) 916 mm **(b) 906 mm** (c) 936 mm (d) 963 mm

25. What the condemning dimension of narrow jaw/wide jaw Adopter thrust shoulder?

(a) 0.4 mm (b) 0.6mm (**c) 0.7 mm** (d) 0.9 mm

26. What the condemning/wear limit of narrow jaw/wide jaw Adopter crown lugs?

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

27. What is the lateral clearance between side frame & Axle box/adopter CASNUB 22W, 22W(M)?

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

28. What is the wear limit of axle box/adopter crown seat (Cylindrical roller bearing) in CASNUB bogie?

(a) 2 mm (b) 3 mm **(c) 3.5 mm** (d) 4.5 mm

29. What is the wear limit of axle box/adopter side lugs (Cylindrical roller bearing) in CASNUB bogie?

(a) 2 mm **(b) 3 mm** (c) 4 mm (d) 5 mm

30. What is the new renewal/dimension of axle box sides (Cylindrical roller bearing) in CASNUB bogie?

(a) 270 mm (b) 264 mm (c) 266 mm **(d) 268 mm**

31. What the worn/condemning dimension of axle box sides (Cylindrical roller bearing) in CASNUB bogie?

(a) 266 mm **(b) 262 mm** (c) 264 mm (d) 260 mmWhat is the new

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renewal/dimension of axle box side lugs (Cylindrical roller bearing) in CASNUB bogie?

(a) 136 mm (b) 134 mm **(c) 130 mm** (d) 132 mm

32. What is the new/renewal dimension of wide jaw adopter crown lugs?

(a) 155mm **(b) 156mm** (c) 154 mm (d) 152 mm

33. What the worn/condemning dimension of axle box/adopter side lugs (Cylindrical roller bearing) in CASNUB bogie

(a) 136 mm (b) 140 mm (c) 132 mm (d) 134 mm

34. What is the new renewal/dimension of axle box crown seat (Cylindrical roller bearing) in CASNUB bogie?

(a) 32.5 mm **(b) 36.5 mm** (c) 37.5 mm (d) 38.5 mm

35. What the worn/condemning dimension of axle box crown seat (Cylindrical roller bearing)in CASNUB bogie?

(a) 32 mm (b) 31mm **(c) 33 mm** (d) 34 mm

36. What is the new renewal/dimension of axle box crown lugs (Cylindrical roller bearing) in CASNUB bogie?

(a) 160 mm **(b) 159 mm** (c) 158 mm (d) 157 mm

37. What is the new/renewal dimension of narrow jaw adopter crown lugs?

(a) 154.5 mm **(b) 155.5 mm** (c) 156.5 mm (d) 157.5 mm

38. What is the wear limit of wide/narrow jaw adopter crown seat?

(a) 2.5 mm **(b) 3.5 mm** (c) 4.5 mm (d) 5.5 mm

39. What is the new/renewal dimension of wide jaw adopter bore seat to crown seat?

(a) 46.5mm (b) 47.5mm **(c) 48.5 mm** (d) 49.5 mm

40. What is the new/renewal dimension of narrow jaw adopter bore seat to crown seat?

(a) 25.2 mm **(b) 26.2 mm** (c) 28.5 mm (d) 27.5 mm

41. What is the new/renewal dimension of modified wide jaw adopter bore seat to crown

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seat?

(a) 20.5 mm **(b) 25.5 mm** (c) 30.5 mm (d) 35.5 mm

42. What the worn/condemning dimension of axle box crown lugs (Cylindrical roller bearing) in CASNUB trolley?

(a) 165 mm (b) 166 mm **(c) 167 mm** (d) 168 mm

43. Worm limit of wide jaw adopter bore seat to crown seat is-

(a) 45 mm (b) 247 mm (c) 48 mm (d) 49 mm

44. Worm/condemning limit of modified wide jaw adopter bore seat to crown seat is-

(a) 25 mm **(b) 22 mm** (c) 27 mm (d) 29 mm

45. Worm/condemning limit of narrow jaw adopter bore seat to crown seat is-

(a) 20 mm (b) 22.5 mm **(c) 22.7 mm** (d) 24.5 mm

46. How many type of adopters used in CASNUB trolley?

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

47. What is the wear limit of wide/narrow jaw adopter side lugs?

(a) 1.0 mm **(b) 3.0 mm** (c) 5.0 mm (d) 2.0 mm

48. New/Renewal dimension of wide jaw adopter side lugs is -

(a) 130 mm (b) 132 mm (c) 134 mm (d) 131mm

49. New/Renewal dimension of narrow jaw adopter side lugs is -

(a) 100 mm **(b) 97 mm** (c) 99 mm (d) 92 mm

50. Worm/condemning limit of wide jaw adopter side lugs is -

(a) 140 mm **(b) 136 mm** (c) 134 mm (d) 132 mm

51. Worm/condemning limit of narrow jaw adopter side lugs is -

(a) 101 mm (b) 102 mm **(c) 103 mm** (d) 104 mm

52. The condemning size of BK block of goods stock is -

(a) 30 mm **(b) 10 mm** (c) 20 mm (d) 15 mm

53. Free camber of 10 plated laminated spring of BOX type wagon is -

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(a) 47+6/-0 mm (b) 49 mm (c) 52 mm (d) 58 mm

54. Free camber of 13 plated laminated spring used to IRS type four-wheeled stock is –

(a) 75.5 mm **(b) 76+6/-0 mm** (c) 78.2 mm (d) 51.5 mm

55. Free camber of 9(Nine) plated laminated spring used to CRT wagon is -

(a) 55 mm **(b) 57 mm** (c) 58 mm (d) 59 mm

56. Nominal free height of inner spring of CASNUB bogie except 2HS is –

(a) 260 mm **(b) 262 mm** (c) 264 mm (d) 266 mm

57. Clearance along the length of shackle pin assembly with shackle plate, scroll Iron, spring eye and cotter for vacuum brake stock is -

(a) **Max. 1.5 mm** (b) Max 2.00 mm (c) Max 2.5-mm (d) Max. 3 mm

58. What is the clearance between shackle pin diameter and shackle plate hole?

(a) Max. 1.5 mm (b) max 2.00 mm **(c) max 1.0-mm** (d) max. 2.5 mm

59. What is the nominal thickness of elastomeric pad of CASNUB bogie?

(a) 49 mm **(b) 46 mm** (c) 48 mm (d) 52 mm

60. Condemning size of elastomeric pad for CASNUB bogie is -

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

61. Nominal dimension of side bearer rubber pad for CASNUB bogie is -

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

62. Condemning size of side bearer rubber pad for CASNUB bogie is -

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

63. IS– spec of lubricant used to lubricate center pivot of the CASNUB trolley?

(a) **IS: 495** (b) IS: 449 (c) IS :455 (d) None of the above

64. Maintenance manual of CASNUB bogie is –

(a) G 97 (b) G 80 **(c) G 95** (d) G 72

65. The nominal inside length of the shackle for BOX bogie is –

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(a) 330±1 mm **(b) 332+1/-0 mm** (c) 333±2 mm (d) 325±1 mm

66. New dimension of side frame anti-Rotation lug for all CASNUB bogie is –

(a) 520 mm **(b) 522 mm** (c) 524 mm (d) 528 mm

67. New pedestal crown roof for 22NL/NLB/HS CASNUB bogie is –

(a) 300 mm (b) 320 mm **(c) 323 mm** (d) 330 mm

68. For BOX/UIC wagons, condemning limit of lateral clearance between axle box lug and horn Check is -

(a) 25 mm (b) 28 mm (c) 23 mm (d) 20 mm

69. The new limit of lateral clearance available between spring buckle and horn gap stiffener for UIC bogie is –

(a) 28 mm **(b) 25 mm** (c) 30 mm (d) 32 mm

70. What is the wear limit of axle box crown lugs (cylindrical roller bearing) in CASNUB bogie?

(a) 2 mm (b) 3 mm **(c) 4 mm** (d) 5 mm

71. Thickness of 10-platted bearing spring plate for BOX bogie is –

(a) 16+0.32/-0.24 mm (b) 18+3.0/-2.0 (c) 15+0.32/-0.24 (d) 17+0.32/-0.2

72. For BOX/ UIC wagons, the new limit of nominal lateral clearance between axle box lug and horn Check is -

(a) 25 mm (b) 23 mm (c) 28 mm **(d) 20 mm**

73. Condemning dimension of side frame anti-Rotation lug for all CASNUB bogies is –

(a) 530 mm (b) 522 mm **(c) 528 mm** (d) 524 mm

74. Length of 10 platted bearing spring for BOX bogie is –

(a) 1205±3 mm **(b) 1200±3 mm** (c) 1155±3 mm (d) 1185±3 mm

75. Size of eye 10 platted bearing spring for BOX bogie is –

(a) 34+1/-0 mm (b) 33±2 mm **(c) 36+1/-0 mm** (d) 38±2 mm

76. Wear limit of pedestal sides for CASNUB bogie is –

(a) 1 mm **(b) 2 mm** (c) 4 mm (d) None of the above

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77. New dimension of all CASNUB bogie crown sides is –

(a) 151 mm **(b) 152 mm** (c) 154 mm (d) 155 mm

78. New dimension of 22W, 22W(M) CASNUB bogie pedestal sides is –

(a) 100 mm **(b) 105 mm** (c) 110 mm (d) None of the above

79. New dimension of 22 NL/NLB/HS CASNUB bogie pedestal sides is –

(a) 80 mm (b) 85 mm **(c) 81 mm** (d) 82 mm

80. Wear limit of pedestal crown roof for CASNUB bogie is –

(a) 4 mm **(b) 5 mm** (c) 6 mm (d) 3 mm

81. New pedestal crown roof for 22W(M) CASNUB bogie is –

(a) 310 mm **(b) 318 mm** (c) 320 mm (d) 322 mm

82. Distance between new pedestal jaw (long) of CASNUB bogie is –

(a) 230 mm (b) 232 mm (c) 234 mm **(d) 236 mm**

83. Wear limit of pedestal jaw (long) of 22NL/NLB/HS CASNUB bogie is –

(a) 2 mm (b) 3 mm **(c) 4 mm** (d) 5 mm

84. Distance between new pedestal jaw (short) of 22NL/NLB/HS CASNUB bogie is-

(a) 182 mm (b) 186 mm (c) 188 mm **(d) 190 mm**

85. New dimension of pedestal jaw for CASNUB 22W, 22W(Retro) bogie is –

(a) 270 mm (b) 272 mm (c0 268 mm (d) 190 mm

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

(a) 270 mm (b) 274 mm **(c) 278 mm** (d) 290 mm

87. Wear limit of crown sides for CASNUB bogie is –

(a) 4.0 mm (b) 3.0 mm (c) 2.0 mm (d) 5.0 mm

88. New dimensions of bolster column inner gibs of all CASNUB bogies are –

(a) 144 mm **(b) 136 mm** (c) 138 mm (d) 132 mm

89. Wear limit of bolster column inner gibs of all CASNUB bogies are –

(a) 2.0 mm **(b) 5.0 mm** (c) 6.0 mm (d) 8.0 mm

90. New dimensions of over bolster land surface of all CASNUB bogies are

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(a) 444 mm (b) 446 mm (c) 448 mm (d) 450 mm

91. New dimension of over rotation stop lugs of all CASNUB bogies are –

(a) 516 mm **(b) 518 mm** (c) 520 mm (d) 522 mm

92. Wear limit of bolster land surface of all CASNUB bogies are –

(a) 2.0 mm **(b) 3.0 mm** (c) 5.0 mm (d) 7.0 mm

93. Wear limit of bolster rotation stop lug of all CASNUB bogies are –

(a) 1.0 mm (b) 2.0 mm **(c) 3.0 mm** (d) 5.0 mm

94. Nominal free height of snubber spring of CASNUB bogie except 22 HS is –

(a) 260 mm (b) 270 mm (c) 282 mm **(d) 294 mm**

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

(a) 261 mm (b) 252 mm **(c) 243 mm** (d) 246 mm

96. Nominal free height of sunbber spring of CASNUB 22 HS bogie is –

(a) 291 mm (b) 294 mm (c) 296 mm **(d) 293 mm**

97. New dimension of bolster column outer gibs of CASNUB bogie is -

(a) 224 mm **(b) 234 mm** (c) 243 mm (d) 246 mm

98. New dimension of bolster column outer gibs of CASNUB 22HS bogie is –

(a) 232 mm (b) 236 mm **(c) 241 mm** (d) 243 mm

99. Wear limit of bolster column outer gibs of CASNUB bogie is –

(a) 2.0 mm (b) 3.0 mm **(c) 5.0 mm** (d) 6.0 mm

100. New dimension of friction shoes wedge block of CASNUB bogie is –

(a) 60 mm (b) 62 mm (c) 63 mm **(d) 61 mm**

101. Condemning dimension of friction shoes wedge block of CASNUB bogie is –

(a) 54 mm (b) 56 mm (c) 58 mm (d) 8.0 mm

102. Wear limit of vertical surface in friction shoes wedge block of CASNUB bogie is –

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(a) 5.0 mm (b) 6.0 mm **(c) 7.0 mm** (d) 8.0 mm

103. Wear limit of slope surface in friction shoes wedge block of CASNUB bogie is –

(a) 1.0 mm (b) 2.0 mm **(c) 3.0 mm** (d) 4.0 mm

104. Nominal free height of outer spring of CASNUB bogie is –

(a) 260 mm (b) 262 mm (c) 264 mm (d) 266 mm

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

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

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

106. Which types of steel are used in side frame column friction plates of CASNUB bogie?

(a) Mild steel (b) Carbon steel

(c) Silico manganese steel (d) None of the above

ATC C&W BZA

UNDER FRAME/ BODY

1.The inside length (riveted) tolerance permitted in the new wagon construction is –

(a) ± 5 mm (b) ± 3 mm (c) ± 4.5 mm (d) ± 2.5 mm

2.The inside length (welded) tolerance permitted in the new wagon construction is –

(a) +8/-3 mm **(b) +7/-3 mm** (b) +5/-3 mm (d) +3/-0 mm

3.The inside width tolerance are permitted in the new wagon construction is -

(a) ± 3 mm (b) ± 5 mm (c) ± 7 mm (d) ± 2 mm

4.The inside height tolerance permitted in the new wagon construction is -

(a) ± 5 mm (b) ± 3.5 mm **(c) ± 3 mm** (d) ± 4 mm

5.In new wagon construction what shall be the tolerance between bogie pivot centers (riveted)?

(a) ± 1 mm (b) ± 1.5mm (c) ± 2 mm **(d) ± 3 mm**

6.In new wagon construction what shall be the tolerance between bogie pivot centers (welded)?

(a) +5/ -2 mm (b) +3/-2 mm (c) +7/-5 mm (d) +15/-0 mm

7.In new wagon construction what is the door opening (vertical or horizontal) tolerances permitted?

(a) +2/-0 mm **(b) +0/-3 mm** (c) +3/-0 mm (d) +5/-4 mm

8.In new wagon, what is the door length tolerance permitted?

(a) +2/-3 mm (b) +4/-3 mm **(c) +5/-0 mm** (d) +0/-5 mm

9.In new wagon, what is the door width tolerance permitted?

(a) +5/-0mm **(b) +0/-5 mm** (c) +0/-3 mm (d) +3/-0 mm

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

(a) +2/-1 mm (b) +2.5/-1.5 mm **(c) ± 1.5 mm** (d) ± 2.5 mm

11. What shall be the tolerance on dimensions of length of barrel measured over the center of non-pressure tank wagon?

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

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12. What shall be the tolerance of non-pressure tank wagon barrel diameter including ovality?

(a) **± 3 mm** (b) ± 4 mm (c) ± 5 mm (d) None of the above

13. What shall be the tolerance on dimension of inside dia of main hole of non- pressure tank wagon barrels?

(a) ± 4 mm (b) ± 5 mm **(c) ± 3 mm** (d) ± 3.5 mm

14. The box bogie is designed for an axle load is -

(a) 22.1 t **(b) 20.3 t** (c) 21.9 t (d) 16.8 t

15. How many bearing springs used in primary suspension for UIC bogie –

(a) 4 (b) 6 (c) 8 (d) 10

16. For UIC trolley, the thickness of sole plate is -

(a) 4 mm (b) 6 mm **(c) 8 mm** (d) 10mm

17. What type of electrode is used in drew bar reclamation?

(a) B & E type (b) D & B type **(c) D & E type** (d) A & E type

18. The primary lock clearance of BOBR door is –

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

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TANK WAGON

1. Pay load of BTPN tank wagon is –

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

2. Axle load of BTPN tank wagon is –

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

3. Cleaning of bitumen barrel is carried out with –

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

4. Inspection of thickness of H_2SO_4 barrel carried out with –

(a) **D- meter** (b) C- meter (c) L- meter (d) MN – meter

5. Barrel length of BTPN tank wagon is –

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

6. Barrel diameter of BTPN tank wagon is –

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

7. Distance between copular to coupler of BTPN tank wagon is –

(a) 12420 mm (b) 12560 mm (c) 12600 mm (d) 12345 mm

8. During Hydraulic testing of master valve of tank wagon, the water to be filled up to be –

(a) 130 Cm **(b) 150 Cm** (c) 180 Cm (d) 200 Cm

9. Thickness of rubber lining of fragile disc and safety bent is –

(a) 3 mm **(b) 5 mm** (c) 4 mm (d) 6 mm

10. Distance between Headstock to Headstock of BTPN tank wagon is –

(a) 11499 mm (b) 11569 mm **(c) 11491 mm** (d) 11591 mm

11. What is the inside barrel diameter of the TPGLR tank wagon?

(a) 2100 mm (b) 2230 mm **(c) 2300 mm** (d) 2330 mm

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12. Length over Headstock of the TPGLR tank wagon is -

(a) 9252 mm **(b) 8382 mm** (c) 9632 mm (d) 4326 mm

13. Tare weight of the TPGLR tank wagon is -

(a) 17.82 t (b) 17.32 **(c) 18.2 t** (d) 17.1 t

14. The mechanical code of bogie Patrol tank wagon fitted with pneumatic brake is -

(a) **BTPAN** (b) LBM (c) LBM (d) LCT

15. The mechanical code of bogie Liquefied anhydrous ammonia gas tank wagon is -

(a) **BTAL &BTALN** (b) TBS & BTSA (c) AST & TSMBA (d) TBT& MBTOX

16. The mechanical code of caustic soda tank wagon is -

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

17. The mechanical code of Lubricating oil tank wagon is -

(a) MBTOV **(b) TORX** (c) TRP (d) BTCS

18. The mechanical code of bitumen tank wagon type is -

(a) **TBT** (b) TBAT (c) TRP (d) TPR

19. No of safety valves fitted in sulphuric acid tank is -

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

20. No. of pressure release valve fitted in sulphuric acid tank is -

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

21. No. of safety valve fitted in liquefied petroleum gas tank is -

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

22. Codal life of Tank wagon is -

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

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23. No of safety vent with frangible disc fitted in sulphuric acid tank wagon is -

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

24. How many no of safety vent with frangible disc fitted in liquid chlorine tank wagon is -

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

25. What is the hydraulic test pressure in the barrel of chlorine tanks wagon?

(a) 43.7 kg/ Cm^2 (b) 47.8 kg/ Cm^2 (c) 41.23 kg/ Cm^2 (d) 49.93 kg/ Cm^2

26. What is the hydraulic test pressure in a barrel of LPG tanks wagon?

(a) 26.36kg/ Cm^2 **(b) 23.7 kg/ Cm^2** (c) 28.33 kg/ Cm^2 (d) 33.23 kg/ Cm^2

27. In the tank wagon, close the master valve after -

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

28. In the tank wagon, close the vapor extractor cock after -

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

29. What is the estimated weight of Phosphoric acid tank barrel?

(a) 6.54 t (b) 7.54 t (c) 7.12 t (d) 8.27 t

30. The diameter of master valve of BTPN tank wagon is –

(a) 90 mm **(b) 100 mm** (c) 110 mm (d) 200 mm

31. What is the density of LPG at 55° C?

(a) 0.470 to 0.499 (b) 0.499 to 0.677 (c) 0.677 to 0.899 (d) 0.899 to 0.999

32. Thickness of barrel plate (Cylindrical portion) of BTPGL tank barrel is-

(a) 10 mm (b) 12 mm **(c) 15 mm** (d) 18 mm

33. Thickness of barrel plate (Dished ends) of BTPGL tank barrel is –

(a) 10 mm (b) 12 mm (c) 15 mm **(d) 17 mm**

34. Volumetric capacity of BTALN tank barrel is –

(a) 60.66 Cu.m (b) 66.60 Cu.m (c) 70.33 Cu.m (d) 71.12 Cu.m

35. Corrosion allowance of BTALN tank barrel is –

(a) 1.0 mm **(b) 1.5 mm** (c) 2.0 mm (d) 2.5 mm

36. What type of brake system used in BTAL tank wagon?

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(a) **Air brake** (b) Vacuum brake (c) Bogie mounted brake (d) Duel brake

37. Volumetric capacity of Liquefied Chlorine tank barrel is –

(a) 15.22 Cu.m **(b) 12.175 Cu.m** (c) 14.22 Cu.m (d) 17.15 Cu.m

38. Overall width of Liquid Chlorine tank wagon is –

(a) 2708 mm **(b) 2705 mm** (c) 2805 mm (d) 2900 mm

39. Working pressure of BTPN safety valve is –

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

40. Bogie centers of Phosphoric acid tank wagon are –

(a) 8000 mm (b) 8400 mm **(c) 8800 mm** (d) 8900 mm

41. Interval of POH in four-wheel tank wagon is –

(a) 4.5 and 3.5 year **(b) 4.0 and 3.5 year**

(c) 3.0 and 4.0 year (d) 4.0 and 5.0 year

42. Interval of POH in TCL and THA tank wagon is –

(a) **2.0 year** (b) 5.5 year

(c) 3.5 year (d) 4.0 year

43. Interval of ROH in BTPN tank wagon is –

(a) 16 month (b) 20 month

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

44. Cleaning of H_2SO_4 tank wagon is carried out with –

(a) 1.9 to 2 % Sodium phosphate **(b) 0.5 to 1 % Sodium phosphate**

(c) 2 to 3% Sodium phosphate (d) None of the above

45. Air tightens test pressure of master valve is –

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

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

46. What is the type of coupler used in BTPGL tank wagon?

(a) Screw coupling (b) H1 coupling

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(c) NT coupling **(d) Transition CBC Knuckle type**

47. Hydraulic Testing of BTAL, BTALN tank barrel is carried at –

(a) 58 kg/ Cm^2 (b) 55.5 kg/ Cm^2

(c) 56.3 kg/ Cm^2 (d) 59.0 kg/ Cm^2

48. Hydraulic Testing of TCL tank barrel is carried out at –

(a) 44.5 kg/ Cm^2 (b) 48.3 kg/ Cm^2

(c) 47.3 kg/ Cm^2 **(d) 43.7 kg/ Cm^2**

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

(a) **Inside dome** (b) Outside dome

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

50. What is the location of safety valve fitted in caustic soda tank wagon?

(a) Inside dome (b) Outside dome

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

51. What is the location of safety valve fitted in sulphuric acid tank wagon?

(a)Inside dome (b) Outside dome

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

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CONTAINER WAGON

1. Condemning limit of BLC wheel set is –

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

2. Maximum height of side frame from Rail level of container bogie type LCCF 20 (C) trolley is –

(a) 851 mm (b) 715 mm (c) 932 mm **(d) 786 mm**

3. In BLC wagon, width over sole bar at centre line wagon is –

(a) 2200 mm **(b) 2100 mm** (c) 2150 mm (d) 2180 mm

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

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

5. How many load side bearers are fitted in BLC wagon?

(a) 4 (b) 6 (c) 5 (d) 2

6. What is the measurement of „A" dimension of BFKI?

(a) 65±5 mm (b) 67±3 mm **(c) 60+2 mm** (d) 58+3 mm

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

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

8. As per RDSO standard what shall be the Max. Allowed speed of BFKI?

(a) 75 Km/h (b) 80 Km/h **(c) 100 Km/h** (d) 110Km/h

9. What is the material specification of BLC wagon trolley?

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

10. At the time of load distribution what is the percentage of load come on centre pivot?

(a) 10% (b) 15% (c) 20% (d) 25%

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

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

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

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(a) 30 feet **(b) 28 feet** (c) 299 feet (d) 32 feet

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

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

14. The axle load capacity of BLC wagon is –

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

15. The tare weight of A-car of BLC wagon is –

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

16. The tare weight of B- car of BLC wagon is –

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

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

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

18. In BLC wagon, height of slackness draw bar system from Rail level is –

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

19. Length of over coupler for A-car of BLC wagon is –

(a) 14566 mm (b) 14556 mm (c) 14655 mm (d) 14255 mm

20. How many automatic twist locks used in BLC wagon?

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

21. Distance between bogie centers of BLC wagon is –

(a) 9678 mm (b) 9687 mm (c) 9765 mm **(d) 9675 mm**

22. Height of side frame bottom from Rail level of container bogie type LCCF 20 (C) trolley is –

(a) 149 mm (b) 156 mm (c) 178 mm (d) 123 mm

23. Rake carrying capacity of the BLC wagon is –

(a) 40 wagons 90 TEUs **(b) 45 wagons 90 TEUs**

(c) 40 wagons 80 TEUs (d) 48 wagons 90 TEUs

24. Which type of side bearer arrangement used in BLC trolley?

(a) Elestromaric (b) constant contact type

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

25. Which type of trolley used in BLC wagon?

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

(c) IRS trolley (d) Diamond frame trolley

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

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

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

27. What type of roller bearing used in BLC wagon?

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

(c) Sparical type (d) plan bearing

28. What is the loading capacity of containers in BLC wagon?

(a) **Two 20' or one 40'** (b) Two 22' or one 45'

(c) Three 15' or two 20' (d) Two 20' or one 45'

29. Name the type of coupling used in BLC wagon?

(a) **CBC & SLD** (b) HT CBC

(c) Screw coupling (d) Slackness drew bars

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Abbreviations

1	ART	Accident and tool van or relief train.
2	AAR	American association of Rail Road
3	AR	Auxiliary reservoir.
4	ARME	Accident relief and medical equipment
5	BKH	Open wagon hopper
6	BVZI	Bogie covered brake van fitted with ICF trolley & pneumatic brakes.
7	BOY	Open wagon with straight CBC
8	BOBX	Open wagon hopper with centre and side discharge arrangement
9	BOBC	Open wagon hopper with centre discharge arrangement
10	BOXC	Open BOX wagon with straight CBC at both side and also with straight CBC at one end transition coupler at the other end.
11	BOXR	Open box wagon with screw coupling
12	BOXS	BOX wagon with swing cum-flap doors and sliding roofs.
13	BOXT	Open BOX wagon with transition couplings
14	BOI	Open wagon gondola
15	BC	Bogie Covered wagon
16	BCXR	Covered BOX wagons with screw couplers.
17	BCXT	Covered BOX wagon with transition couplers.
18	BVGT	Covered brake van with CBC and transition type coupling on both sides.
19	BVGC	Covered brake van with CBC and high coupling draft gear with screw coupling at the other end.

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20	BTA	Tank wagon acid.
21	BTE	Tank wagon liquid caustic soda.
22	BTK	Tank wagon Kerosene.
23	BTL	Tank wagon heavy oil.
24	BTM	Tank wagon molasses.
25	BTP	Tank wagon petrol.
26	BTV	Tank wagon vegetable oil.
27	BTPN	Bogie patrol tank wagon.
28	BTAP	Bogie tank wagon for alumina type.
29	BTALN	Bogie liquefied anhydrous ammonia gas tank wagons.
30	BOBR	Bogie open bottom rapid discharge hopper wagon.
31	BLC	Bogie low height container flat wagon.
32	BC	Brake cylinder.
33	BPC	Brake power certificate.
34	BP	Brake pipe.
35	BWL	Bogie well wagon
36	CT	Tours car
37	CRT	Covered wagon with lightweight transition type CBC
38	CS	Covered wagon, Salt.
39	CLW	Chittranjan locomotive works.
40	C&W	Carriage and Wagon.
41	CR	Control reservoir.

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42	CDD	Compact disk drive
43	CRS	Commissioner of Railway safety.
44	CME	Chief mechanical Engineer
45	CRSE	Chief Rolling Stock Engineer
46	CPB	Common pipe bracket
47	CAMTECH	Center for advanced maintenance technology.
48	CRB	Chairman Railway board
49	COFMOW	Central organization for modernization of workshops.
50	CRIS	Central for Railway information system.
51	CBC	Center buffer coupler.
52	CTRB	Cartridge type roller bearing
53	DV	Distributor valve
54	D&A	Discipline and appeal rules.
55	DLW	Diesel locomotive works
56	DMRC	Delhi metro rail corporation Ltd.
57	DCW	Diesel component works
58	ELB	Empty load box
59	FOIS	Freight operating information system.
60	FP	Feed pipes.
61	FO	Furnace oil
62	GM	General manager.
63	HB	Hand brake

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64	HSD	High speed diesel.
65	HDD	Hard disc drives.
66	IRCON	Indian railway construction corporation Ltd.
67	ICF	Integral coach factory.
68	IVRS	Interactive voice response system.
69	IRCA	Indian Railway conference association.
70	IRWO	Indian Railway welfare organization.
71	IRFC	Indian Railway finances corporation Ltd.
72	IRIMEE	Indian railway institute of mechanical & electrical engineering.
73	KRC	Konkan Railway corporation.
74	K	Open wagon
75	LHB	Link Halfman Boseh
76	LDO	Light Diesel oil
77	MBTSA	Sulphuric acid tank wagon.
78	OP	Oil pressure.
79	ODC	Over dimensional consignment.
80	PEV	Passenger emergency valve
81	PEASD	Passenger emergency Alarm signal device
82	RDSO	Research, Design and standard organization.
83	PRS	Public reservation system.
84	RCF	Rail coach factory.
85	RITES	Rail India technical and economy services Ltd.
86	RSC	Railway staff college.
87	RRB	Railway recruitment board.

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88	SWTR	Single wagon test ring
89	SMF	Sealed maintenance free.
90	SAB	Slack adjuster barrel.
91	SPTM	Self printing ticket machine.
92	TPGLR	4- Wheeled liquefied petroleum gas tank wagon.
93	THA	Hydrochloric acid tank wagon.
94	TCL	Liquid chlorine tank wagon.
95	UTS	Unreserved ticket system.
96	V	Brake van. Ordinary.
97	VB	Rest van ordinary.
98	RWF	Rail wheel Factory.
99	WT	Water tight.
100	WWP	Worn wheel profile

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General
DAR

1. Which of the following statement 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

Ans. (C)

2. 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

Ans. (c)

Qn.3 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

Ans. (C)

Qn.4 Which of the following Rules of DAR 1968 does specify the penalties?

(a) Rule-9

(b) Rule-11

(c) Rule-6

(d) None of these

Ans. (c)

Qn.5 Board of enquiry appointed by the Disciplinary authority?

(a) Not more than 5 members

(b) Not less than 3 members

(c) Not more than 4 members

Ans. (b) Rly.Bd"s Ref. E(D&A) 2000 RG 6-24 dt. 20.2.01.

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Qn.6 Where appointing authority are not available who should be treated as appointing authority?

(a) Controlling Officer
(b) DRM
(c) GM
(d) CPO

Ans. (C) Reference: Rly. Board"s No.E(D&A)63 RG6-23 dt.21.02.64.

Qn.7 Disciplinary Authority while passing orders for imposing a penalty should invariably pass?

(a) Orders for penalty
(b) Speaking order
(c) None

Ans. (b) Rly.Bd"s No. E(D&A)91/RG 122 dt. 21.2.92.

Qn. 8 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.

Ans. (a)

Qn.9 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

Ans. (C) Rly.Board"s No. E(NG)60-CL-13 dt. 13.5.65.

Qn.10. Recognized Trade Union official can be allowed to act as defence 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

Ans. (b) Rly.Bd"s No. E(D&A) 92 RG 6-148 dt. 9.1.92.

Qn.11. Which is relevant rules in R.S. (D&A) Rules, 1968 for common proceedings?

(a) Rule 9
(b) Rules 11
(c) Rule 13
(d) Rule 20

Ans. (c)

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Qn.12. If the disciplinary authority of a charged official is also involved in the same case, this case should dealt with by the

(a) Disciplinary Authority
(b) Revising Authority
(c) The next higher authority
(d) None

Ans. (C) Ref: Rly. Board‟s No. E(D&A)90 RG6-123 dt. 09.11.90.

Qn.13. 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

Ans. (d) Rly.Bd‟s No. E(D&A) 99 RG-6-26 dt. 19.6.2000.

Qn.14 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

Ans.(a) Rly.Bd‟s No. E(D&A) 2001-RG6-3 dt. 20.10.02.

Qn.15 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

Ans. (c)

Qn.16 How many Annexure are attached with major penalty charge memorandum?

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

Ans. (d)

Qn.17 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

Ans. (a) Rly.Bd‟s ref. E(D&A) 2000 RG 6-13 dt. 8.10.01.

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Qn.18 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 reduce but his pay to be protected
(d) None

Ans. (b) Ref. E(D&A)89 RG6-17 dt. 7.3.89.

Qn.19. An acting Rly. Servant can be allowed to act as Defence counsel?

(a) 2 No. of cases
(b) 3 No. of cases
(c) 4 No. of cases
(d) 5 No. of cases

Ans. (a)

Qn. 20. How many cases are dealing a retd. Railway employee as a defense assistant at a time?

(a) 5
(b) 7
(c) 3

Ans. (b)Ref. RB‟s No. E(D&A)2002 RG-6-13 dt. 14.5.03 (RBE 83/13)

Qn.21 Which deduction from subsistence allowance cannot be made?

(a) House Rent
(b) P.F.subscription
(c) Income Tax
(d) None

Ans. (b)Ref. RB‟s No. F(P)62 PF1/14 dt. 12.7.73.

Qn.22 Which of the following deduction is prohibited from subsistence allowance?

(a) House Rent
(b) Income Tax
(c) Court attachment
(d) Station debits

Ans. (C)

Qn.23 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 sign attendance register
(c) Privilege passes cannot be availed
(d) No increment is drawn during suspension

Ans. (b)Ref.Rly. Bd‟s No. E(D&A) 83 RG-6-17 dt. 13.5.83.

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Qn.24 When a Rly. Employee placed under suspension but only a minor penalty is imposed, the treatment of the suspension period is as

(a) Dies non
(b) Non duty
(c) Duty
(d) None
Ans. (C)

Qn.25 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
Ans. (C) Ref. E(D&A) 2001 RG 6-3 dt. 20.10.02.

Qn.26 Stiff major penalty namely.

(a) Compulsory retirement
(b) Stoppage of increment
(c) Reduction to the lower stage
(d) None
Ans. (a)

Qn.27 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
Ans. (C)

Qn. 28 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
Ans. (a)

Qn.29 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
Ans. (C)

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Qn. 30 An employee under suspension, when he reports sick is 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 Ans.
Ans.(d)

31 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
Ans. (C) Ref. Rule No. 5 of DAR 1968.

Qn.32 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 Ans.
Ans.(a)

Qn.33 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
Ans. (b) Ref. RS(D&A) Rules, 1968.

Qn.34 50% of subsistence allowance granted under?

(a) Rule 1342 R-II
(b) Rule 1343 R-II
(c) Rule 1345 R-II
(d) None
Ans. (a)

Qn.35 Review of suspension cases is done

(a) After 4 months
(b) After 3 months
(c) After 2 months
(d) None
Ans. (b)

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Qn.36 What amount shall be taken into account for calculating subsistence allowance in case of running staff?

(a) 40% of basic pay
(b) 30% of basic pay
(c) 50% of basic pay
(d) 60% of basic pay

Ans. (b)

Qn.37 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

Ans. (a) Ref.1343 IREC R-II

Qn. 38 Compulsory deduction from subsistence allowance?

(a) PF subscription
(b) LIC premium
(c) House rent
(d) Court attachment

Ans. (c)

Qn.39 „Gr C" and „Gr.D" employees under suspension may be given

(a) 3 sets of pass per calender year
(b) 2 sets of pass
(c) one set of pass
(d) None of these

Ans. (C)

Q. 40 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
(e) None of these

Ans. (a) Ref.E(D&A) 74 RG6-31 dt. 11.11.74

Qn.41 The limitation period of revocation of suspension of non-gazetted employee caught red handed while accepting bribe in trap cases?

(a) 18 months
(b) 6 months
(c) 3 months
(d) none

Ans. (b) Ref.88/V-1/CBI/5/3 dt. 30.9.99. Qn.42

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Qn.42 Inquiry is not mandatory under Rule

(a) Rule 5
(b) Rule 14(ii)
(c) Rule (13)
(d) None

Ans. (b) Rly.Bd"s No. E(D&A) 85 RG-6-72 dt. 16.5.86.

Qn.43 D&A Rules 1968 will not apply to

(a) Permanent employee
(b) Apprentice
(c) Casual lab our with temporary status
(d) None

Ans. (b)

Qn.44 Whether Sr.Section Engineer are empowered to suspend a Jr.clerk in scale RS.3050-4050 (RSRP) working under his control?

(a) Sr.Section Engineer is Competent Authority
(b) Depends upon offence
(c) Office Supdt. is competent authority
(d) None of these

Ans. (a) Ref. As per DOP in schedule II.

Qn.45 Inquiry officer's report is to be supplied to

(a) Presenting officer
(b) Controlling officer
(c) Charged officer
(d) None

Ans. (C) Ref. E(D&A) RG 6-151 dt. 10.11.89

Qn.46 On transfer from one division to another division, a staff does not report for duty at the new place of posting who will be the competent authority for taking disciplinary action?

(a) GM
(b) D&A Authority at new place
(c) D&A authority at old place
(d) None

Ans. (2) Ref. E(D&A) 69 RG 6-8 dt. 29.9.69.

Qn.47 The notice of final penalty should be signed by

(a) Enquiry officer
(b) Controlling officer
(c) Disciplinary authority
(d) None

Ans. (C) Rly.Bd"s No. E(D&A)67 RG 6-35 dt. 20.12.67.

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Qn.48 What would be appropriate disciplinary authority when staff working under the administrative control of DOM and misconduct pertains to violations of Commercial rule or safety rules?

(a) DCM/Sr.DCM

(b) DSO/Sr.DSO

(c) DOM/Sr.DOM

(d) DPO/Sr.DPO

Ans. (C) E(D&A) 2001 RG-3 dt. 20.10.02.

Qn.49 All DAR cases are to be completed within the model time scheduled fixed by the Rly.Board.

(a) 202 days

(b) 300 days

(c) 150 days

Ans. (c) 150 days

Qn.50 Under which Rule of the R.S.(D&A) Rules, 1968 the appellate authority can act as revising authority?

(a) Rule-25

(b) Rule - 25 A

(c) Rule-22

(d) Rule-21

Ans. (a)

Qn.51 A charged employee has a choice for choosing an Assistant Railway employee (DC). However certain classes of employees are based as DC‟s which one of the following classes are barred?

(a) Vigilance inspector

(b) Law Assistant

(c) Railway servants under suspension

(d) None the above

Ans. (d) Ref.Bd‟s No. E(D&A) 92 RG 6-175 dt. 18/12/92.

Qn.52 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

Ans. (c)

Qn.53 Reduction to a lower stage in a time scale of pay for a period not exceeding 3 years without calculation effect and not adversely affecting his pension is

(a) Major penalty

(b) Minor penalty

(c) None

(d) Both of these

Ans. (b) Ref. Bd‟s No. E(D&A) 90 RG 6-12 dt. 16.11.90.

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Qn. 54 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

Ans. (c) Ref.RB"s No. E(D&A) 80/RG-25 dt. 20.1.86.

Qn.55 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 pensionary loss

Ans.(b)

Qn.56 Which penalty is not recorded in the service sheet?

(a) Stoppage of increment
(b) Stoppage of passes
(c) Warning
(d) Censure
(e) None

Ans. (C)

Qn. 57. While forwarding appeals under Rule 21(3) of the R.S.(D&A) Rules to the appellate authority should confirm its comments to

(a) the points raised in the appeal only
(b) comment on any extraneous circumstances on which the charged official has had no opportunity to explain his position
(c) discuss past cases
(d) comments on his personality

Ans. (a) Rly.Bd"s ref. E(D&A) 99 RG-6-40 dt. 13.1.2000.

Qn.58 Whether Divisional safety officer can act as disciplinary authority in the case of misconduct of Dy.S.S. working under D.O.M?

(a) Division Safety Officer is competent
(b) Divisional Safety Officer is not competent
(c) Divisional Personnel Officer is competent
(d) None of these

Ans. (b) Ref. E(D&A) 74 RG 6-69 dt. 4.8.97.

Qn.59 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

Ans. (b) Ref. E(D&A) 77 RG 6-20 dt. 10.5.77.

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Qn.60 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) effect from the date of issue of order
(b) effect from date of next increment date
(c) from the retrospective effect
(d) none of these
Ans. (b)

Qn.61 What is the permissible time limit for preferring a revision petition to the revising Authority?

(a) 60 days
(b) 45 days
(c) 90 days
(d) none
Ans. (b)

Qn.62 Which Rules comes under when revision petition is not prefer within the time limit?

(a) Rule 25
(b) Rule 27
(c) None
(d) Rule 22
Ans. (b)

Qn.63 Under which circumstances „ex-parte" inquiry can be held?
(a)Charge official does not appear before I.O. more than two occasion.
(b) Presenting Officer not appear before IO
(c) Disciplinary Authority not appear before IO (d)None of these.
Ans. (a)

Qn.64 Can any of the penalties specified in Rule 6 of the Railway servants (D&A) Rules be imposed with retrospective effect?

(a) With retrospective effect
(b) Both are prospective and immediate effect as admissible
(c) Always be prospective effect
(d) None of these
Ans. (b)

Qn.65 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

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(d) none of these
Ans. (b)

Qn.66 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) Rule 6

(b) Rule 14(ii)
(c) Rule 13
(d) None
Ans. (b)

Qn.67 What is the correct Rule under R.S.Rules (D&A)for common proceeding?

(a) Rule 14
(b) Rule 18
(c) Rule 13
(d) None
Ans. (C) Ref. R.S.D&A Rules, 1968.

Qn.68 Under which Rule before disposing the revision petition by the GM the case should be refer to RRT for advice.

(a) Rule 14(i)
(b) Rule 31
(c) Rule 24
Ans. (C) Ref. R.S.(D&A) Rule, 1968.

Qn.69 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 CO
(d) None of these
Ans. (a) Rly.Bd"s ref. E(D&A) 2000 RG-6-24 dt. 20.2.01.

Qn.70 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
Ans. (a) E(D&A)2003/RG 6-37 dt. 13.2.04.

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Qn.71 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
Ans. (a)

Qn.72 What is the current Rule for granting compassionate allowance to Railway employees who are removed or dismissal from service?

(a) Rule 64 of R.S.(Pension) Rules
(b) Rule 65 of R.S.(Pension) Rules
(c) Rule 60 of R.S.(Pension) Rules Ans.
Ans.(b)

Qn.73 Fresh appointment/Re-appointment under D&A Rule can be consider in terms of Rule

(a) 502 IREC Vol-I
(b) 402 IREC Vol-1
(c) 302 IREC Vol-1
(d) None
Ans. (b)

Qn.74 How many total number of 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 Ans.
Ans.(C)

Qn.75 Rule 11 of the R.S.(D&A) Rules, 1968 deals with the procedure for

(a) Suspension
(b) Major penalty proceedings
(c) Appeal cases
(d) Minor penalty proceeding
Ans. (d)

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STORES

1. 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

2. The store items are codified in---------- digit number
(a)10 **(b)08** (c)05 (d)12

3. Under which of following group, C&W parts are listed
(a)00-08 (b)10-19 (c)21-28 **(d)30-39**

4. In PL no 21074119, what does 9 indicates?

(a) Major headings (b) Sub groups (c) Minor groups **(d) Check digit**

5. 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

6. Which of the following is not the source of material in Railways?
(a) Indigenous purchase (b) Imports (c) Loan of stores for mother Railways **(d) None of these**

7. Which of following is called inventory?
(a)Finished Goods (b) Raw Materials (c)Scrap **(d) All of these**

8. 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

9. Which of the following methods is used for scrap disposal?
(a)By auction (b) Through tender (c) Through direct sale **(d) All of these**

10. Dead stocks should be verified after?
(a) Five years (b) Three years **(c) One year** (d) Six months

11. Who verifies the stock?
(a) ACOS (b) inspector of store department (c)Account clerk **(d) stock verifier**

12. The stock of imprest stores are verified after every……
(a)Six Months **(b) Two years** (c)One year (d) None of these

13. Which of the following is the objective of stock verification?
(a) The materials in stock are of description and as shown in numeric all Ledgers
(b) Excess in stock
(c) Deficiency in stock
(d) All of these

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14. 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

15. Which of following points is considered while putting a firm in the list of approved vendor?
(a) Past experience of firm for handling the same job
(b) Annual turnover & financial solvency
(c) Technical ability of firm
(d) (d) All of these

16. Which of following is not the type of tender

(a) Open Tender (b) Limited tender
(c)Single Tender **(d) None of these**

17. Single tender 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

18. Theitemswhichhavenotbeenissuedforpasttwoyearsandarenotlikelytobe Usedwithin next two years, are known as ?
(a)Surplus store (b) Movable surplus store **(c) Dead surplus store** (d) None of these

19. 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

20. 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

21. 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

22. Passenger amenities in coaches can be classified as …… item
(a) Vital (b)Essential **c) Desirable** (d) Nonmoving

23. 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**

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24. 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

25. Stores Directorate in Railway Board is under.
A) Member Materials Management B) Member Traction Rolling stock
B) Member Traffic D) Member Staff

26. Who is the Principal Head of stores Department on a Zonal Railway?
A) CMM B) PCME
C) PCMM D) PCOS

27. What is the full form of IRSS?
A) Indian Railway Stores Services B) Indian Railway Stock Services
C) Indian Railway Stock Sheet D) Indian Railway Stores Sheet

28. In eight digit Price List number 23.25.4581 is
A) Electrical item B) Diesel item
C) Stationary item D) S & T item

29. In PL NO.85.01.1812, 85 is called as
A) **Main group** B) Sub group
C) Check digit D) None of the above

30. How many digit PL number consists of.
A) 10 **B) 8** C) 4 D) 02

31. In PL. NO. the subgroup to be represented by
A)) First two digits B) 3rd & 4th digits
C) 5th & 6th digits D) 2nd & 3rd digits

32. In Price List number 23564581 which are check digit.
A) 23B) 56 C) 1 D) 458

33. Which is Accountal unit for set .
A) 01 B) 03 C) 14 D) 02

34. Which of the following is not pre-inspection Agency
A) RITES B) RDSO C) Consignee D)DQA

35. The ordinary stores which have not been demanded by the user since 2 year is called
A) Emergency stores B)Ordinary stores
C) Surplus stores D)custody

36. Buffer stock is provided due
A) To meet unforeseen requirements B) To supply items to other Depots C)To make shortfall due to theft D) To arrange local purchase

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37. Time from the date of realization of need of recoupment to the physical receipt of materials isknown as –
A) Buffer Stock B)Interim Period C)Contract Period D)Lead Time

38. Outstanding quantity against all live purchase orders are termed as
A) Covered dues B) UnCovered dues C) Dead dues D) Ordinary stock

39. Finance vetting is required for all purchase orders for Safety items valuing Above.
A) Rs. 50 lakh B) Rs. 5 lakh C) Rs.15 lakh D) Rs. 8 lakh

40. Non stock indents above Rs.15 Lakh have to be approved by
A)Sr.scale B)JAG **C)SAG** D)PHOD

41. Non stock indents above Rs.45 Lakh have to be approved by
A)Sr.scale B)JAG **C)SAG D)PHOD**

42. Junior scale officer of user department can sign PAC upto value—
A) Rs.75000 B)Rs.2 lakh C)Rs.15 lakh D) Rs.25 lakh

43. Senior scale officer of user department can sign PAC upto value—
A) Rs.75000 B)Rs.2 lakh C)Rs.15 lakh D) Rs.25 lakh

44. PAC cab be signed by which of the following---
A) DYCMM B) CMM C) officer of user department D) Sr.DMM

45. JAG officer of user department can sign PAC upto value—
A) Rs.75000 B)Rs.2 lakh C)Rs.15 lakh D) Rs.25 lakh

46. PHOD officer of user department can sign PAC –
A) upto Rs.75 lakh B)upto Rs.2 lakh C)above Rs.15 lakh D) above Rs.25 lakh

47. Junior scale officer of user department can sign Non-stock requisition upto value—
A) Rs.75000 B)Rs.25000 C)Rs.15 lakh D) Rs.25 lakh

48. Senior scale officer of user department can sign Non-stock requisition upto value—
A) Rs.75000 B)Rs.25000 C)Rs.15 lakh D) Rs.25 lakh

49. JAG officer of user department can sign Non-stock requisition upto value—
A) Rs.75000 B)Rs.25000 C)Rs.15 lakh D) Rs.25 lakh

50. PAC is to be issued for the item required to be purchased from.
A) Single firm only B) Approved firms only
C) RDSO Approved firms only D) None of above

51. Following is not the member of Tender committee for finalization of Tender.
A) Officer of consuming department B) Officer of Stores department
C) Officer of Accounts department D) Officer of Engineering department

52. PO number consists of how many digits?
A) 4 B) 6 C) 17 D) 12

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53. Gem is designed by Ministry of
A) Ministry Of Electronics & Information Technology
B) Ministry of Commerce and Industry
C) Ministry of Railways
D) Ministry of External affairs

54. Common goods & services are being procured from in all Ministries of Govt. of India
A) GeM B) DGS&D C) MSME D) Railway Board

55. Convenor of the tender committee in stores purchase is the
A) Stores member B)Technical member C)User member D)Accounts member

56. Security deposit is collected from firm
A) For satisfactory completion of purchase order. B)For deposit of EMD
C) For deposit of Ground Rent D) For deposit of Wharfage charges

57. The contract in which rate is fixed , delivery period is fixed but quantity not fixed is
A) Fixed quantity contract B)RC C)RGC D) None of above

58. LD is charged for.
A) Delayed Supply 2) Ground Rent C) EMD D) Sale issue note

59. LD is charged at the rate of per week or part of the week for value of delayed supply.
A) 4% B) 1/2 % C) 10% D) 02%

60. After due date of receipt of material, maximum LD can be recovered
A) 5% B) 2% C) 10% D) 20%

61. Issue and recoupment schedule for Imprest stores is prepared in form no.
A)S-1313 B)S-1319 C)S-1539 D)S-1830

62. S-1539 voucher is also called as
A) DS-8 note B) DS-6 note C) DS-3 note D) DS-4 note

63. Is recovered from firms, who fail to supply material within delivery date.
A) GST B) LD C) SD D) Ground Rent

64. Form number is used for requisition cum- issue note
A)S-1313 B)S-2337 C)S-1539 D)S-1830

65. Stores with no issues over 24 months are called as.
A) Surplus B) inactive C) Overstock D) None of the above

66. Surplus stock may be due
A) Change in structure or plant and equipment B)Introduction of new standard
C) Introduction of new procedure D) All of the above

67. EOQ is the quantity at which
A)Inventory carrying cost is maximum
B)ordering cost is maximum
C) inventory carrying cost + ordering cost is maximum
D) inventory carrying cost + ordering cost is minimum

68. Which of the frequency of verification of stores with Imprest holders?
A) once in a year B) once in a 2 year C) once in 3 year D)once in 6 month

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69. Which of the frequency of verification of tools and plant items by Accounts?
A) once in 1 year B) once in a 2 year C)once in 3 year D) once in 6 month

70. Presence of which of the following is essential during stock verification?
A) Depot officer B) Accounts officer C) RPF D)DMS

71. Stock verification sheet is prepared in the form number
A) S-1830 B) S-1260 C) S-1360 D)S-1539

72. The main group for Carraige & wagon spares is
A) 30-39 B) 60-69 C) 10-19 D) 20-29

73. "B' Category items are verified
A) once in a year B) once in a 2 year C) once in 6 month D) once in 3 month

74. "C' Category items are verified
A) once in a year B) once in a 2 year C) once in 6 month D) once in 3 month

ATC C&W BZA

ACCIDENT INVESTIGATION & SAFETY

1. Collision as per new classification of accident is classified as:
(a) A class (b) B class
(C) C class (d) none of these

2. Number of hooters to be sounded, when accident takes place out station, but main line is clear, ART required without MRV:
(a) 02 long **(b) 03 long**
(c) 03 long01 short (d) none of these

3. The track readings at accident site shall be taken for a distance of_____meters in rear of the POM and_meters ahead of the POM.
a) 60, 30 **b) 90, 45**
c) 120, 60 d) 150, 75

4. Mock drill of ART is being conducted once in_____months by Sr DSO with permission of DRM:
a) 03 Months b) 04 Months
c) 05 months d) 6 months

ATC C&W BZA

5. 140Tcrane is available with_____class ART:
a) A b) C
c) B d) None of the above

6. Number of hooters to be sounded ,when an accident takes place at out station and mainline is effected, ART and MRV are required:
a) 04 Long & 01 short b) 03 long 01 short
c) 04 long d) 03 Long

7. Flammable gas fire is classified as_____fire.
a)A Class **b) C class**
c) D class d) B class

ATC C&W BZA

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8. The duration of the long hooter shall be _____ seconds and the short hooter shall be _____ seconds.

a) 30, 05 b)45,15
c) 30, 10 d)45,05

9. One Long hooter of _____ seconds duration indicate cancellation of ART

a) 45 b) 60
c) 75 **d) 90**

10. Emergency telephone point is located at every ----------meters in OHE area.

(A) 1000 (B) 1500
(C) 900 (D) 1600

11. What is full form of SPART

a) Self promoted account review team **b) Self propelled accident relief train**
c) Semi powered accident rescue train d) Specially powered accident relief train-set

12. What is the full form of ARME

a) Accident relief medical engineering b) Accident rail manufacturing expense
c) Alternate railway medical examination **d) Accident relief medical equipment**

13. Quarterly safety bulletin on S.C.Rly is known as ----------

a) VIGIL b)Fly Leaf
c)JPO d) Gazette

14. Approved special instructions are prescribed by.

a)COM **b) CRS**
c)CME d) GM

15. Longitudinal displacement of track is called.

a)Track gauge b) Expansion in track
c) Creep d) LWR

16. Failure of Rolling stock comes under _____ category of accident.

a) M **b) J**
c) K d)L

17. All serious accident shall be inquired into by _____

a) CRS b) GM
c)PCSO d) DRM

18. All yard accidents shall be inquired into by a Committee of _____ with Sr.DSO/ DSO as accepting authority.

a) Senior Supervisors b) Junior Scale Officers
c) Senior Scale Officers d) All of the above

19. From the point of mount/drop, stations are to be marked on the rail table at a interval of 3 meters on either side of the track up to a distance of 45 meters.

a) 35 **b) 45**
c) 55 d) 65

20. Where Enquiries are ordered by DRM the enquiry report should be submitted to DRM within

(a) 5days (b) **7 days**
(c)10 days (d) 12 days

ATC C&W BZA

21. An accident will be termed as serious accident when the loss of Railway property is more then
(a) 3lacs (b)10lacs
(c) **25lacs** (d)15lacs

22. As per new classification of railway accident, floods breaches & landslides" is classified in the following class (a)Class J (b)Class K
(c) Class Q **(d) Class R**

23. For A class ODC, the gross clearance over maximum moving dimension of B.G is
(a)150mm (b) 175mm
(c) 225 mm (d) 250mm

24. Any deviations from the Schedule of dimensions will require prior sanction of ……. (a)Zonal Rly **(b) Rly Board**
(c)CRS (d) All of them

25. ACD means
A. **Anti Collision Devise** B. Accidents causing death
C. Accidents causing derailment D. None of the above

26. Duration of short hooter is……..
A. 5 seconds* B. 10 seconds C. 15 seconds D. 20 seconds

27. For taking track measurement at accident site stations shall be marked at …….. Apart.
A. 1 m B. 2m C. **3m*** D. 5m

28. 4. Flat tyre causes maximum damage at a speed of
A. 90 to 100 kmph B. **25 to 30 kmph***
C. 10 to 15 kmph D. 15 to 20 kmph

29. 5. As per IRCA rules, the rejection limits for wheel flange thickness is –
A. 38mm B. 25.4mm C. **16mm*** D. 20 mm

30. 6. Where Enquiries are ordered by DRM the enquiry report should be submitted to DRM within
A. 5 days B. **7 days*** C. 10 days D. 12 days

31. 7. In a semi permanent (BG) diversion the gradient should not be steeper then
A. 1 in 75 B. 1 in 125 C. 1 in **100** * D. 1 in 150

32. An accident will be termed as serious accident when the loss of Railway property is more then
A. 3lakh B. 10lakh C. **25lakh*** D. 15lakh

33. Collision as per new classification is classified as
A. **A class*** B. B class C. C class D. none of these

34. Number of hooters to be sounded, when the accident takes place is Loco shed or in traffic
A. One long hooter B. Two long hooters
C. Two long & one short D. none to these

35. Number of hooters to be sounded, when accident takes place out station, but main line is clear:
A. 02 long B. 03 long* C. 03 long 01 short* D. none of these

36. Duration of lone Hooter is:
A. 20 seconds B. 25 seconds C. 30 seconds* D. 50 seconds

ATC C&W BZA

37. "Accident Drill" is organized by:
A. Engg. Officers B. Operating Officers
C. Engg. & operating officers D. none of these

38. When flange contact of wheel leads tread contact. Then it is known as:
A. Zero angularity B. Negative angularity
C. Positive angularity* D. none of these

39. The condition will be called as thin flange, when the flange thickness becomes less the:
A. 10mm B. 12mm C. 16mm* D. 15mm

40. Min. sleeper density in case of semi permanent diversion-
A. (m + 2) B. (m + 3)* C. (m + 4) D. (m + 7)

41. As per new classification of railway accident, floods breaches & land slides' is classified in the following class
A. Class J B. Class K C. Class Q D. Class R*

42. Dip lorry can be worked:
A. In block* B. without block C. With look put caution D. None of these

43. Min. authority to be Incharge of lorry.
A. Keyman B. Mate C. PWS* D. none of these

44. UCC is abbreviated for
A. Uncontrolled cement concrete B. Unified Control Command
C. Unified Command Centre* D. none of them

45. In a semi permanent (BG) diversion the gradient should not be steeper then
A. 1 in 75 B. 1 in 125 C. 1 in 100* D. 1 in 150 (Schedule of Dimensions)

46. The minimum centre to centre distance of a B.G. track in mid-section is …….. mm
A. 4200 B. 4265* C. 4350 D. 4000

47. Any deviations from the Schedule of dimensions will require prior sanction of …….
A. Zonal Rly B. Rly Board* C. CRS D. All of them

48. The maximum gradient in station yards should be ……. Unless special safely devices are adopted and/or special rules enforced.
A. 1 in 400* B. 1 in 500 C. 1 in 1000 D. 1 In 600

49. The recommended maximum gradient in the year for B.G is-
A. 1 in 1000 B. 1 in 1200* C. 1 in 1500 D. 1 in 1800

50. For B.G. the minimum radius of a curve is ……
A. 150m B. 175* C. 200m D. 225m

51. Check rails should normally be provided where the radius is …M or less in B.G.
A. 150m B. 200m C. 208m* D. 225m

52. On B.G. maximum clearances of check rails at a level crossing are
A. 51mm B. 57mm* C. 65mm D. 54mm

ATC C&W BZA

53. Minimum depth of space for wheel flange form rail level in B.G. is …… mm
A. 35 B. 38* C. 42 D. 45

54. The minimum horizontal distances form centre of track to face of passenger platform coping for B.G. is ……. Mm
A. 1650 MM. B. 1670 MM* C. 1676 MM D. 1685 MM

55. What is maximum height above rail level for low-level passenger platform for BG?
A. 300mm B. 455mm* C. 525mm D. 550mm

56. Maximum curvature permitted on B.G. is
A. 8 degree B. 10 degree* C. 12 degree D. 16 degree

57. The minimum track centre in B.G. double line is
A. 4500 mm B. 4750 mm C. 5000 mm D. 5300 mm*

58. Maximum height of rolling stock on BG should be
A. 2745mm B. 3250mm C. 3450mm D. 4140mm*

59. Maximum width of rolling stock on BG should be
A. 4745mm B. 3250mm* C. 3450mm D. 4140mm

60. The gradient of a platform is generally
A. 1 in 1000 B. 1 in 750 C. 1 in 500* D. 1 in 250

61. Maximum clearance of check rails at level crossing for B.G. should be
A. 48mm B. 57mm* C. 51mm D. 44mm

62. Height gauges should be located at a minimum distance of….. from gate post.
A. 5 m B. 7.5m C. 8m* D. 10m

63. O.D.C. Stands for
A. On direct current B. Over dimensioned consignment*
C. None of them D. Operating & gate

64. In case of 'A' Class ODC escort is……..
A. Necessary B. not necessary* C. does not matter D. on direct current

65. For A class ODC, the gross clearance over maximum moving dimension of B.G is
A. 150mm B. 175mm C. 225 mm* D. 250mm

66. For A Class, the gross clearance of over maximum moving dimension for BG is
A. 100mm B. 125mm C.150mm* D. 175mm

67. Check rails should normally be provided where the radius is …. M or less in B.G.
A. 150m B. 200m C. 218m* D. 240m

68. On B.G. maximum clearances of check rails at a level crossing are
A. 51 mm B. 57mm* C. 65mm D. 70mm

69. The maximum height above rail level for B.G. goods platform is ……. Mm
A. 1000mm B. 1050mm C. 1065mm* D. 1075mm

70. Minimum clearance of check rails for B.G. at level crossing should be
A. 48mm B. 57mm C. 51mm* D. 44mm

AFC C&W BZA

71. The derailment is classified as_____class accident

a) A

b) B

c) C

d) D

72. Normally the length of re-railing bridges is available in any set of HRE is_____mtsa) 4.2

b) 2.2

c) 2.3

d) 3.1

73. Normally the HRE is used to_____Derailed rolling stock.

a) Re-rail

b) Push

c) Pull

d) None.

74. The PSC sleeper designed gauge is_____mm

a) 1676

b) 1600

c) 1673

d) 1670

75. The chord length measuring versine_____metre.

a) 10

b) 20

c) 15

d) 30

76. The inverter in Plasma arc cutting machine is equipped with _____

a) Petrol Engine

b) Electric Operated Motor

c) Kerosene engine

d) Pneumatic

77. The control table is a device which connects with_____nos. of Hydraulic jacks in HRE.

a) 2

b) 3

c) 4

ATC C&W BZA

78. Full form of NDRF is ____

a) National Disaster Railway force

b) National Disaster Response Force

c) National Drone Force.

d) National Disaster Rescue Force.

79. The maximum cant is permitted in a curve is_____mm

a) 150

b) 125

c) 175

d) 75

80. The permissible vertical wear of 52 kg rail is_____mm

a) 6

b) 8

c) 5

d) 13

81. The GMT for 60 kg Rail is _____

a) 625

b) 500

c) 525

d) 425

82. Maximum length of re-railing bridges is available in any set of HRE

is_____mtsa) 4.2

b) 2.2

c) 3.3

d) 4.4

83. The MRV shall move within_____min after siren sounds during night

a) 25

b) 30

c) 20

d) 15

84. Maximum length of longer Buffer casing is____mma) 584

b) 456

c) 635

d) 406

ATC C&W BZA

82. Overhauling Safety Valve is done in _____ months:

a) 3-month

b) 6-month

c) 9-month

d) 12-month.

86. Main Engine of 140 Ton DHBD Crane is located in_____

a) Under-carriage

b) Super-structure

c) Driver's Cabin

d) Relieving Bogie.

87. The permissible vertical wear of 60 kg rail is_____mm

a) 6

b) 8

c) 5

d) 13

88. The SPMRV shall move within_____min after siren sounds during Day

a) 25

b) 30

c) 20

d) 15

89. The height of 52 kg rail section is

a) 143 mm

b) 156 mm

c) 172 mm

d) 129 mm

90. Which type of fire extinguisher must not be used in case of electrical base fire?

a) Halon Extinguisher

b) Carbon chloride extinguisher

c) Foam extinguisher

d) Dry Powder extinguisher

91. Bleeding can be controlled by all method except _____

a) Compression

b) Pour Hot water

c) Tourniquet

d) ft the limb above the head

ATC C&W BZA

a) LUCAS

b) Holmetro

c) Weber

d) Libervit

93. Site sketch is prepared by _____

a) Traffic Inspector

b) SSE P-Way

c) SSE C&W

d) CLI

94. The lighting arrangement is done at accident site by

a) Electrical –TRD

b) Electrical General

c) Electrical TRO

d) Electrical-AC

95. The length of re railing bridge is_____metera) 3.4

b) 1.5

c) 2.5

d) 4.4

96. __is the site in charge till the arrival of an officer at accident site.

a) AC Mechanic

b) Loco Pilot

c) TTE

d) Train Manager

97. Earth moving equipment's at accident site are arranged by_____Dept

a) Engg.

b) Mech

c) Commercial

d) Electrical Traction

98. The loading capacity of Aux. Hoist in 140 Ton DHBD Crane is _____

a) 140 Ton

b) 5 Ton

c) 25 Ton

d) 22.9 Ton

ATC C&W BZA

99. The radius of 6-degree curve is _____

a) 292m

b) 300m

c) 219m

d) 400m

100. The min length of re railing bridge is _____

a) 2.2

b) 1.5

c) 1.1

d) 4.4

ATC C&W BZA

101. The wheel Gauge or the wheel distance is measured between_____of the two wheels on the same axle.

a) Outer Rim

b) Flange

c) Inner Rims

d) None of these

102. The Buffer Height is measured from_____to the Centre line of the buffer casing.

a) Rail Table

b) Rail Web

c) Rail Foot

d) Rail Head

103. ABC fire Extinguisher can be used for_____class of fire

a) Class B & Class E fire

b) Class B & Class A fire

c) Class A, Class B & Class C fire

d) Class B & Class D fire

104. The HRE Power pack tank is filled with_____liters of Hydraulic oil.

a) 25

b) 34

c) 45

d) 54

105. The maximum degree of curve adopted in IR is _____

a) 9

b) 10

c) 8

d) 4

106. The payment of ex gratia compensation to the passengers is arranged by _____

a) Operating

b) Engineering

c) Commercial

d) Electrical

107. ABC fire Extinguisher should not be used for_____type of material fire

a) Wood fire

b) Energized electrical fire

c) Petroleum fire

d) Aluminum fire

ATC C&W BZA

108. The first for bleeding is_____.

a) Direct pressure

b) Immobilization

c) Tying bandage

d) Ice pack

109. Which of the following device used in HRE for operating the lifting & traversing jacks

a. Control desk

b. Telescopic rams

c. Traversing unit

d. Special jacks

110. Formula for super elevation is _____

a. e = v / 225r

b) e + f = v^2 / 127R

c) e = v / 225R

d) None of these

111. The full form of HRE is ____

a. Heavy Railing Equipment

b. Hydraulic Rescue Engine

c. Hydraulic Re railing Equipment

d. Hydraulic Recovery Equipment

112. The full form of SPART_____

a. Self Propelled Accident Relief Train

b. Special Purpose Accident Relief Train

c. Self Propelled Accident Recovery Train

d. Special Passenger Accident Relief Train

113. The High-level committee has given_____no of recommendations.

a. 99

b. 98

c) 100

d) **111**

114. The full form of HLC_____

a. High Level Committee

b. High Level Conference

c. High level commission

d. High level corporation

ATC C&W BZA

115. The disaster management act come in force during_____year.

a) 2003

b) 2005

c) 2002

d) 2008

116. In HRD_____&_____devices are used for connecting cutting tools

a. Hydraulic Pump & Power Unit

b. Hydraulic pump & Ram Jack

c. Hydraulic pump & Hose

d. Hydraulic pump & Air bottle

117. The formula for radius of curved track is _____

a. $r = c^2 / 10v$

b) $r = c^2 / 6.5v$

c) $r = c^2 / 5v$

d) $r = c^2 / 8v$

118. In fire fighting removal of fuel is called as_____.

a. Igniting

b. Cooling

c. Starvation

d. Smoothening

119. In HRD_____device is used for cutting of window rods.

a. Cutter

b. Ram Jack

c. Gas Cutting

d. Spreader

120. CPR stands for _____

a. Cardiopulmonary Reuse

b. Cardiopulmonary Resuscitation

c. Cardiopulmonary Rescue

d. Cardiopulmonary Resource

121._____is used for moving the lifted load in HRE

a. Displacing Jack

b. Hydraulic jack

c. Lifting jack

d. Hydraulic Pump

ATC C&W BZA

122. The CBRN Type of disasters B stands for_____accidents

a. Bimetallic

b. Biological

c. Bomb

d. Bio medical

123. In HRD_____device is used for expanding of gap

a. Spreader

b. Cutter

c. Ram Jack

d. High Pressure air bag

124. In fire fighting PASS is _____

a. Pull, Aim, Squeeze, and Sweep.

b. Pull, Attack, Squeeze, and Sweep.

c. Push, Aim, Squeeze, and Sweep.

d. Pull, Aim, Squeeze, and Sleep.

125. SLI stands for _____

a. Safe Load Indicator

b. Self load indicator

c. Service load indication

d. System load indication

126. In fire fighting Cooling means _____

a. Limiting smoke

b. Limiting heat

c. Limiting temperature

d. Limiting oxygen

127. First aid for fractures is _____

a. Splint

b. Apply Ice Bag

c. Stop Bleeding

d. CPR

128. The height of 60 Kg rail is_____mm

a. 176mm

b. 190mm

c. 180mm

d. 160mm

ATC C&W BZA

129. The Cowan Sheldon 140T DHBD Cranes are maintained by the work shop of

a) Jamalpur, ER

b) Parel, CR

c) Kharagpur, SER

d) Mysore, SWR

130. The Nadal's Formula Y/Q (Y=Lateral Flange Force, Q=Vertical Force) is normally less than _____for No derailment.

a) 1.4

b) 2

c) 2.4

d) 3.4

131. The Winching operation in 140T Crane meant for

a) Rotation

b) Lowering

c) Pulling

d) None

132. The target time for moving MRV from the nominated station in double exit_____in mins.

a) 30

b) 45

c) 15

d) 20

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

a) Jib resting

b) C/W Resting

c) Ropes resting.

d) All the above.

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

a) Slewing purpose

b) Derricking purpose

c) Winching purpose.

d) Safety against over loads/angles/less counters weights.

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

a) 45m

b) 90m

c) 300m

d) 1000m

ATC C&W BZA

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

a) 20mm

b) 30mm

c) 40mm

d) 50mm

137. **ARMV** Scale-I consists of__no of coaches.

a) 01

b) 02

c) 03

d) 04

138. **A-Class ART** consists of_____no. of coaches and wagons with Crane.

a) 3C +2W

b) 4C+3W

c) 5C+2W

d) 5C+3W

139. The 161 CC engine of power pack for HRD consists of___in HP.

a) 5

b) 10.7

c) 15

d) 20

140. The full form of HRD is

a) Hydraulic Re-Railing Device

b) Hydraulic Rescue Device

c) Hydraulic Road Vehicle Device

d) Hydraulic Rod cutter Device.

141. The HRD is considered as

a) Cold Cutting equipment

b) Hot Cutting equipment

c) Plasma Cutting equipment

d) Electric cutting Equipment.

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a) Connecting two vertical jacks

b) For simultaneous movement between two traversing trolley of jacks laterally

c) Measuring the distance of wheels

d) Measuring the distance of rails.

143. The capacity of the BEMCO HRE Power pack (Petrol) model PEP5.5 is

a) 5.5HP

b) 9HP

c) 15HP

d) 20HP

144. Bridge coupling is a device for HRE used for

a) Connect two rails

b) Connect two aluminum girder bridges

c) Connect two engines

d) Connect two Jacks.

145. The full form of **HRE** is

a) Hydraulic Re-Railing Equipment

b) Hydraulic Rescue Equipment

c) Hydraulic Road Vehicle Equipment

d) Hydraulic Rod cutter Equipment

146. The Maximum capacity of Hydraulic Jack available in BEMCO HRE is

a) 63T

b) 136.2 T

c) 120T

d) 140T

147. The Viscosity of oil used in hydraulic Jacks of BEMCO HRE is

a) 68

b) 78

c) 10

d)150

148. One of the Equipment used in ART is Trifor which is used for

a) Pulling the vehicles

b) Pushing the vehicles

c) Pulling and pushing

d) Pulling and lifting purpose.

ATC C&W BZA

149. The capacity of displacing jack used for lateral movements in BEMCO HRE is

a) 169/93 KN

b) 15/10 KN

c) 20/10 KN

d) 30/40 KN

150. The standard prime mover in HRE of IR is

a) Petrol or Diesel Engine

b) Electric Operated Motor

c) Hydraulic

d) Pneumatic

151. The control table is a device which connects with _ nos. of Hydraulic jacks in HRE.

a) 2

b) 3

c) **4**

d) 5

152. The maximum pressure developed by High Pressure **HRD** power packs is__in kg/cm^2.

a) 700

b) 300

c) 400

d) 500

153. The de-compression point provided in BEMCO, control stand is meant for

a) To remove air lock

b) Oil lock

c) Repair of HP hose

d) None.

154. Normally maximum length of Re-railing Bridge(Beam) in any make of HRE in IR is __in meters.

a) 3.3

b) 3.5

c) 4.4

d) 4.5

ATC C&W BZA

155. Normally the HRE is used to___/Derailed rolling stock.

a) Re-rail

b) Push

c) Pull

d) None

156. The High Pressure hoses are tested at a pressure of

a) 1.5 times

b) 2 times

c) 3 times

d) 2.5times

157. Normally the nos. of re-railing bridges are available in any set of HRE are

a) **4**

b) 4.4

c) 2.2

d) 3

158. The Disaster Management Act, 2005 has been enacted as the central Act to deal with the management of disasters. This act envisaged a three tier Disaster Management structure in India at

a) **National, States & District levels**.

b) National, International & States

c) None of these

d) National, International & Districts.

159. When was High level committee recommendations came into existence

a) April-2003

b) 2005

c) 2007

d) 2018

160. Where is the Head Quarters of NDMA

a) New Delhi

b) Bombay

c) Chennai

d) Kolkata.

161. What is the full form of NDMA

a) National Disaster Management Authority

b) National Disaster Management Association

c) National Disaster Management Application

d) None of these

ATC C&W BZA

162. How many **NDRF** battalions are functioning in India?

a) 10

b) 11

c) 12

d) 15

163. Full form of **NDRF** is

a) Native Disaster Railway force

b) National Disaster Response Force

c) National Drone Force.

d) Native Drone Railway force.

164. Indian Railway Disaster Management Plans at zonal railways are approved by

a) NDMA

b) SDMA

c) RB

d) PCSO of zones.

165. How many recommendations are there in **HLC** headed by Sh.Dasarathi committe

a) 11

b) 51

c) 91

d) 111

166. Who is the Chairman of NDMA?

a) PM

b) President

c) Vice President

d) Head of Armed forces.

167. As per the HLC recommendation no..... , IRIDM/SBC formed

a) 85

b) 95

c) 100

d) 111

168. Who is the **Chairman** of SDMA?

a) Chief Minister of respective state

b) District Collectors

C) Police Commissioner

D) None

ATC C&W BZA

169. How many Teams are there of NDRF in India

a) 22

b) 25

c) 23

d) 23

170. As per statistical reasons accidents are classified in alphabets

a) A to R(16classes)

b) A to J(10classes)

c) A to M(13classes)

d) A to D(4classes)

171. As per statistical reasons Collision comes under:

a) Class 'A' Accident

b) Class 'B' Accident

c) Class 'C' Accident

d) Class 'D' Accident

172. As per statistical reasons Fire comes under:

a) Class 'A' Accident

b) Class 'B' Accident

c) Class 'C' Accident

d) Class 'D' Accident

173. As per statistical reasons LC Gate Accidents comes under:

a) Class 'A' Accident.

b) Class 'B' Accident

c) Class 'C' Accident

d) Class 'D' Accident

174. As per statistical reasons derailment Accidents comes under:

a) Class 'A' Accident. c) Class 'B' Accident

b) Class 'C' Accident d) **Class 'D' Accident**

ATC C&W BZA

175. Accident can be declared as Disaster by the authority

a) GM of a Zone or (AGM in absence of GM or PCSO in absence of GM and AGM).

b) DRM

c) Sr. DME

d) CRS

176. What is the Standard Gauge Length of Broad Gauge track

a) 1600mm

b) 1676mm

c) 1696mm

d) 1000mm

177. What is the Standard length of One Rail in BG track

a) 10meters

b) 11meters

c) 12meters

d) 13meters

178. If sleeper density is M+5, then no. of sleepers provided in 13 meters will be

a) 16nos

b) 18nos

c) 19nos

d) 20nos

179. If Sleeper density is M+7, then no. of sleepers provided in 13 meters will be

a) 20nos

b) 15nos

c) 19nos

d) 25nos

180. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 880 denotes

a) Ultimate Tensile Strength

b) Ultimate Compression Strength

c) Upper Yield Strength

d) Lower Yield Strength

181. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then O denotes

a) Hydrogen supplied furnace

b) Oxy acetylene furnace

c) Oxygen Killed Furnace used

d) Oil furnace

ATC C&W BZA

182. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then SAIL denotes

a) Mfg Company

b) Type of Rail

c) Mfg method

d) Composition

183. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 52 denotes

a) Type of rail.

b) Length of Rail

c) Ultimate tensile Strength

d) Year of Mfg

184. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then V denotes

a) Month of Manufacture i.e. May

b) Month of Manufacture i.e. June

c) Month of Manufacture i.e. July

d) Month of Manufacture i.e. August

185. If, on a rail web portion, it is embossed that 880 O SAIL 52 V 96, then 96 denotes

a) Year Built.

b) Month of Mnfg

c) Tensile Strength

d) Compression Strength

186. Railway Track fasteners are

a) ERC or Pandrol clip

b) Liner

c) Grooved Rubber Sole Plate

d) None of the above

187. Versine is measured when the accident takes place in

a) Curves

b) Points

c) Curves and Points& Crossings

d) Crossings

188. In the case of Accident Joint Track Readings are taken from POM or POD

a) Ahead: 45meters & Rear: 90meters.

b) Ahead: 50meters & Rear: 100meters.

c) Ahead: 40meters & Rear: 90meters.

d) Ahead: 30meters & Rear: 80meters.

ATC C&W BZA

189. When a Wagon is derailed in main line, Joint readings are signed by

a) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Track Inspector)

b) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Ticket Inspector)

c) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Traffic Inspector)

d) JE(C&W)/SSE(C&W), JE(P.Way)/SSE(P Way) and TI(Train Inspector)

190. The Wheel Base of CASNUB Bogie is

a) 2.0 m

b) 2.5 m

c) 3.0 m

d) 4.0 m

191. The Wheel Base of ICF Coach is

a) 2.89 m

b) 2.56 m

c) 3.0 m

d) 4.0 m

192. The Wheel Base of LHB Coach is

a) 2.89 m

b) 2.56 m

c) 3.0 m

d) 4.0 m

193. The USFD testing periodicity of BG Rails for 6 GMT

a) Every 9month

b) Every 6months

c) Every 10months

d) Every 8months

194. The USFD testing periodicity of BG Rails for 15 to 30 GMT

a) Every 4month

b) Every 6months

c) Every 10months

d) Every 8months

195. The USFD testing periodicity of BG Rails for 30 to 45 GMT

a) Every 4month

b) Every 6months

c) Every 3months

d) Every 8months

ATC C&W BZA

196. What is the formula for calculation of Twist

a) Summation of cross-level over wheel base in mm

b) Multiple of cross-level over wheel base in mm

c) Difference of cross-level over wheel base in mm

d) Division of cross-level over wheel base in mm

197. What is the permissible Lateral wear in 60kg/m rail in case of A&B routes

a) 6 mm

b) 8 mm

c) 10 mm

d) 4 mm

198. What is the permissible Lateral wear in 60kg/m rail in case of C&D routes

a) 8 mm

b) 5 mm

c) 7 mm

d) 9 mm

199. The USFD JE/SSE P-Way marks on rail web as IMR with 3 Red stars indicates

a) Immediate track renewal with in maximum 3 days and 30KMPH Speed Restriction

b) Immediate track renewal with in maximum 5 days and 30KMPH Speed Restriction

c) Immediate track renewal with in maximum 10 days and 30KMPH Speed Restriction

d) Immediate track renewal with in maximum 8 days and 30KMPH Speed Restriction

ATC C&W BZA

200. The USFD JE/SSE P-Way marks on rail web as REM with 2 Red stars indicates

a) Replace within 15days or Impose 30KMPH if not replaced and provide joggled fish plate.

b) Replace within 15days or Impose 40KMPH if not replaced and provide joggled fish plate.

c) Replace within 15days or Impose 50KMPH if not replaced and provide joggled fish plate.

d) Replace within 15days or Impose 60KMPH if not replaced and provide joggled fish plate.

201. The USFD JE/SSE P-Way marks on rail web as OBS with 1 Red stars indicates

a) Impose 30KMPH speed restriction.

b) Impose 40KMPH speed restriction.

c) Impose 50KMPH speed restriction.

d) Impose 60KMPH speed restriction.

202. The maximum cant/Super elevation permitted in a Curve is

a) 190 mm

b) 180 mm

c) 175 mm

d) 160 mm

203. The relation between the Degree of curve and radius of curve is

a) D= 1750/R

b) D= 1850/R

c) D= 1950/R

d) D= 1650/R

204. The Maximum and Condemned wheel dia in ICF bogie is

a) 915/825mm

b) 910/820mm

c) 920/825mm

d) 925/825mm

205. The Buffer height permitted max/min is

a) 1100 mm/1030mm.

b) 1110 mm/1030mm.

c) 1105 mm/1030mm.

d) 1105 mm/1020mm.

206. What is the maximum permissible speed for ART/ARMV is

a) 120KMPH

b) 100KMPH

c) 130KMPH

d) 110KMPH

ATC C&W BZA

207. In signaling system, Track circuit is used for-

a) To find the presence of train occupation in the sick line

b) To find the presence of people occupation in the station/yard.

c) To find the presence of rolling stock occupation in the station/yard.

d) To find the presence of train occupation in the station/yard.

208. The general Track Circuit Length in station is

i. 1000 m

ii. 700 m

iii. 900 m

iv. 800 m

209. What are the different types of Inter locking?

a) Mechanical Interlocking, Rolling Relay Interlocking (RRI), Electronic Interlocking (EI).

b) Mechanical Interlocking, Route Relay Interlocking (RRI), Electronic Interlocking (EI).

c) Mechanical Interlocking, Route Relay Interlocking (RRI), Electric Interlocking (EI).

d) Mechanical Interlocking, Rail Relay Interlocking (RRI), Electronic Interlocking (EI).

210. What is data logger?

a) Data logger is a Black Box and stores all the information regarding the changes of Signals by Train Manager

b) Data logger is a Black Box and stores all the information regarding the changes of Signals by Station Masters.

c) Data logger is a Black Box and stores all the information regarding the changes of Signals by Points Man

d) Data logger is a Black Box and stores all the information regarding the changes of Signals by Control Office

211. The full form of TPWS

a) Train parting and warning system.

b) Train collision and warning system.

c) Train protection and warning system.

d) Track failure and warning system.

212. The full form of TCAS

a) Train parting avoidance system

b) Train collision avoidance system

c) Train collision advance system

d) Train collision avoidance service

213. The full form of ACD

a) Anti collision Detection.

b) Anti corrosion Device.

c) Anti climbing Device.

d) Anti collision Device.

ATC C&W BZA

214. If a Loco pilot passed the signal at Danger. Can it be detected

a) Yes, by Data logger.

b) No, by Data logger.

c) Cannot be detected

d) None of the above

215. Axle Counter is a device to measure the no of axles passed in____section

a) Advance Signalling Section

b) Automatic Signalling System

c) Automatic Signalling Section

d) Automatic Signalling Station

216. The important Components in Points and Crossings are

a) Stock Rail, Tongue rail, Heel blocks, Nose, Wing rail etc

b) Stock Rail, Tongue rail, Stretcher bars, Heel blocks, Nose, Wing rail etc

c) Stock Rail, Tongue rail, Stretcher bars, Heel blocks, Wing rail etc

d) Stock Rail, Tongue rail, Stretcher bars, Heel blocks, Nose etc

217. Check rails are provided in curves if the degree of curve is more than

a) 10^0

b) 9^0

c) 8^0

d) 6^0

218. Check rail clearance maintained in curves is

a) 40mm – 48mm.

b) 44mm – 50mm.

c) 40mm – 48mm.

d) 44mm – 48mm.

219. What is the target time for turning out of ARMV from the time of siren in Single & Double exit?

a) 15 minutes in case of Double Exit, 25 minutes in case of Single Exit.

b) 20 minutes in case of Double Exit, 30 minutes in case of Single Exit.

c) 10 minutes in case of Double Exit, 30 minutes in case of Single Exit.

d) 15 minutes in case of Double Exit, 20 minutes in case of Single Exit.

220. What is the target time for turning out of ART from the time of siren

a) 30 Minutes during Day, 40 Minutes during Night.

b) 30 Minutes during Day, 45 Minutes during Night.

c) 20 Minutes during Day, 40 Minutes during Night.

d) 35 Minutes during Day, 45 Minutes during Night.

ATC C&W BZA

221. Nadal's Formula gives the ratio of forces

a) Y/Q= Longitudinal flange force/Vertical force

b) Y/Q= Lateral flange force/Horizontal force

c) Y/Q= Lateral flange force/Vertical force

d) Y/Q= Lateral Rail force/Vertical force

222. The standard length of PSC sleepers on straight track is

a) 2850 mm.

b) 2950 mm.

c) 2750 mm.

d) 2650 mm.

223. The important defects/ tell tale signs for derailment on track can be found in the distance from Zerostation is

a) 40m ahead of the track and 80m rear of the track.

b) 45m ahead of the track and 90m rear of the track.

c) 55m ahead of the track and 80m rear of the track.

d) 40m ahead of the track and 90m rear of the track.

224. Clearance at the nose of crossing is

a) 40mm(min)/50mm(max)

b) 35mm(min)/55mm(max)

c) 40mm(min)/45mm(max)

d) 44mm(min)/48mm(max)

225. The check rail clearance at the LC Gates is

a) 50mm(min)/55mm(max)

b) 51mm(min)/57mm(max)

c) 52mm(min)/58mm(max)

d) 50mm(min)/60mm(max)

226. The throw of switch at Points and Crossing is

a) 115 mm.

b) 120 mm.

c) 130 mm.

d) 135 mm.

227. Maximum degree of curve in LWR track is

a) 8^0

b) 3^0

c) 2^0

d) 6^0

ATC C&W BZA

228. The clearance between the Guard rail and running rail provided on girder bridges is

a) 250 +/- 50mm.

b) 250 +/- 60mm.

c) 250 +/- 70mm.

d) 250 +/- 55mm..

229. How many types of Hydraulic Re-railing Equipments (HREs) available in Indian Railways

a) MFD

b) LUKAS

c) BEMCO makes

d) All of the above.

230. The Meaning of Power Pack in Hydraulic Re-railing equipments is

a) Engine + Hydraulic Jack

b) Engine + Power Unit

c) Engine + Hydraulic Pump

d) Engine + Oil Pump

231. Which type of Hydraulic oil is used in HREs?

a) HLP 60 grade oil of HP Company.

b) HLP 90 grade oil of HP Company.

c) HLP 68 grade oil of HP Company.

d) HLP 40 grade oil of HP Company.

232. The Maximum pressure developed in BEMCO Power Pack is

a) 450kg/cm^2.

b) 550kg/cm^2.

c) 350kg/cm^2.

d) 250kg/cm^2.

233. The Tilting jack is used for

a) Tilting/Capsizing of wagons/Coaches from track.

b) Tilting/Capsizing of wagons/Coaches from track.

c) Tilting/Capsizing of wagons/Coaches from track.

d) Tilting/Capsizing of wagons/Coaches from track.

234. The no. of jacks can be operated from control stand are

a) **4**

b) 2

c) 6

d) 8

ATC C&W BZA

235. The capacity of Displacing Jack in MFD is

a) 15/8T

b) 10/8T

c) 20/10T

d) 10/5T

236. The Highest Capacity Jack in MFD is

a) 120T

b) 120T

c) 120T

d) 120T

237. The Types of HRDs available in ARMVs are

a) Holmotro & Weber

b) LUKAS

c) Libervit

d) All of the above.

238. The type of HRD suitable for cutting stainless steel bodies like LHB or MMTS Coaches is

a) High speed HRD. (LUKAS or Weber)

b) High speed HRD. (Libervit or Weber)

c) High speed HRD. (LOKAS or Holmotro)

d) High speed HRD. (Holmotro or Weber)

239. The Nibbler is a tool for sheet cutting up to the thickness of

a) 3 to 8mm.

b) 3 to 10mm.

c) 3 to 5mm.

d) 3 to 4mm.

240. What is the use of Plasma cutting Machine?

a) Cold cutting for Stainless Steel Coaches & Wagons.

b) Hot cutting for Stainless Steel Coaches & Wagons.

c) Hot cutting for Mild Steel Coaches & Wagons.

d) Hot cutting for Carton Steel Coaches & Wagons.

241. Oxy Acetylene ($O_2 + C_2H_2$) cutting is a

a) Cold cutting for ICF coaches or mild steel wagons.

b) Hot cutting for LHB coaches or mild steel wagons.

c) Hot cutting for ICF coaches or mild steel wagons.

d) Hot cutting for ICF coaches or stainless steel wagons.

ATC C&W BZA

242. SCBA (Self Contained Breathing Apparatus) is meant for

a) Additional oxygen for Fire fighters in the case fire accidents.

b) Additional Nitrogen for Fire fighters in the case fire accidents.

c) Additional hydrogen for Fire fighters in the case fire accidents.

d) Additional Co_2 for Fire fighters in the case fire accidents.

243. The Standard chord length for measuring curves in block section is

a) 30 meters.

b) 20 meters.

c) 25 meters.

d) 35 meters.

244. The Standard chord length for measuring Turn-outs in section is

a) 6 meters.

b) 10 meters.

c) 12 meters.

d) 15 meters.

245. The solenoids in 140T Crane operates on

a) 8V DC

b) 12V DC

c) 24V DC

d) 10V DC

246. The Important types of 140T Cranes in Indian Railways are

a) Holmotro & Weber

b) LUKAS

c) Gottwald and Cowans Sheldon.

d) Libervit

247. 140T Crane operations are

a) Slewing, Derricking, Winching, Self Travelling,

b) Main Hoist raising/lowering,

c) Aux. Hoist raising/lowering.

d) All the above

248. The full form of SPURT(in relation track defect) is

a) Self Propelled Ultrasonic Road Testing

b) Self Propelled Ultrasonic Rail Testing

c) Self Programmed Ultrasonic Rail Testing

d) Self Propelled Ultrasonic Reflection Testing

ATC C&W BZA

249. The maximum pressure developed in HRD LUKAS Power pack (Petrol) in turbo mode is

a) 700 bar

b) 650 bar

c) 500 bar

d) 550 bar

250. In '1660' Sleeper density of track, Sleeper to Sleeper distance is

a) 720 mm

b) 602 mm

c) 500 mm

d) 450 mm

251. The maximum Speed permitted by 140T DHBD Crane Formation while moving towards accidentsite is

a) 120KMPH

b) 100KMPH

c) 130KMPH

d) 110KMPH

252. The Disaster Management Act was come in to effect from

a) 2008

b) 2006

c) 2009

d) 2010

253. The level difference between two rails is called

a) Super Elevation

b) Versine

c) Track gauge

d) Wheel gauge

254. Window rod and pillars of coaches are cut by

a) HRD Combi Tool

b) Plasma cutting

c) Oxy Acetylene gas cutting

d) Arc Cutting

255. The Lukas HRD cutter is used to cut

a) SS panel sheets

b) Mild steel sheets

c) Carton steel sheets

d) Steel sheets

ATC C&W BZA

256. Stain less steel sheets of coaches are cut by

a) HRD Combi Tool

b) Spreader

c) Nibbler cutting tool

d) Plasma Cutting

257. The loading capacity of Crane increase with

a) Decrease in Radius of working

b) Increase in Radius of working

c) Does not changes with Radius of working

d) None of the above

258. The Tilting jack is used for---------- movement of lifted Rolling Stock.

a) Horizontal

b) Vertical

c) Inclined

d) None of the above

259. Panel sheet of the coaches are cut by

a) Plasma cutting

b) Gas Cutting

c) HRD Combi Tool

d) HRD Spreader tool

260. Provision of satellite phone & walkie-talkie at accident site is done by electrical traction dept.

a) Mechanical Dept.

b) Engg Dept.

c) S&T Dept.

d) Electrical traction dept.

261. Certification of fitness of track is given by

a) Station Master

b) SSE (C&W)

c) SSE (P.Way)

d) Loco Inspector

262. Avalanche is usually occurring at

a) Coastal areas

b) Desert

c) Plateau

d) Hilly areas

ATC C&W BZA

a) Kinematic viscosity in m^2/S.

b) Dynamic viscosity in m^2/S.

c) Kinematic viscosity in mm^2/S.

d) Dynamic viscosity in mm^2/S.

264. Types of fire extinguishers are provided in the coaches.

a) DCP

b) Water mist

c) Foam type

d) Co_2 type

265. Wood, paper & plastic are classified under

a) Class C fire

b) Class B fire

c) Class A fire

d) Class D fire

266. Walkie talkie & VHF sets in ART are provided by

a) S&T Dept.

b) Engineering Dept.

c) Mechanical Dept.

d) Electrical Dept.

267. In 140 T BD crane, the Jib rotation by 360^0 is called

a) Lifting

b) Lowering

c) Slewing operation

d) Derricking operation

ATC C&W BZA

Preparation Bills

1 In the 7th CPC, how many levels have been categorized?.

A:20 **B:18** C:15 D:17 **Ans: B**

2 How to calculate Commutation of pension?

A:Pension x % of Commutation x 12 commutation factor attained at the next birthday | B :Pay x%of Commutationx DA/2 x No of years of service/2 | C:Pay+No.of years of service / 2x %of commutation DA/2 | D:None of theabove | Ans:A

What is the max amount of DCRG?

3 A:15Lakhs **B: Rs. 20 lakhs** C:25lakhs D: 21Lakhs Ans:B

What is the max amount of DCRG? (in case the employee died with one year of service)

4 A: ½ month pay | B: six months' pay | C:Two 1/2 Months of pay | **D:Two months basic pay** | Ans: D

What is % of Travelling Allowance permitted if an officer works at a Distance of 8 kms. for 3 hrs.?

5 **A: 30%** B:40% C: 20% D:Noneof the above Ans:A

6 What is the contribution of the employer for NPS?

A:upto 20%of salary(Basic) | B:None | **C: up to 14%of salary (Basic + DA)** | D: upto15% of salary (Basic+DA) | Ans: C

7 Amount of CTG permissible in the event of own request transfer?

A:Nil B:10% C:20% D: B&C Ans: A

If an employee after rendering 18 years of qualifying of service, on superannuation what is the amount of Pension eligible?

8 A:18/20years B:BasicPayx18/25 years C:Noneofthe above D: Pay/2 x 18/20 years Ans: D

An employee is undergoing a penalty on the time of his superannuation, how is pension Calculated?

9 **A: Provisional Pension** | B: Pension | C:NoPension | D: None of the above | Ans: A

If an employee has put in 3 years of service, how many sets of PTO is he eligible?

10 **A: 4 sets** B: 3 sets C: 2 sets D: one set Ans: A

How many sets of PTOs is an officer eligible?

11 A:8sets B: 6sets **C:4 sets** D: 14 half sets Ans: C

12 Full form of HRMS?

A:Human Rights Management System | B: Human Resource Maintenance System4 | C: Human Resource Making system | **D: Human Resource Management System.** | Ans: D

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13 From when is final withdrawal of PF is allowed?

A: 20 of years of service | B: 25 years of service | C: 15 years of service. | D:10 years of service | Ans: C

14 At what rate is transportation/conveyance permissible, if the employee/officer has taken 10 days leave in a calendar month?

A: 100% | B: 50% | C: 30% | D: None of the above | Ans: A

15 Who is eligible for NPA (Non Practising Allowance)?

A: Assistant Nursing officers | B: All the employees Working in Medical Department | C: Para medical | D: Doctors | Ans: D

16 of NPA on the basic pay.

A: 25% | B: 20% | C: 15% | D: None of the above | Ans: B

17 What is the full form of APA?

A: Annual Performance application | B: Additional Post Allowance | C: Additional practicing allowance | D: None of the above | Ans: B

18 Maximum pay that can be drawn

A: 2 lakhs | B: 2.50 lakhs | C: 3 lakhs | D: None of the above | Ans: B

19 Who is eligible for Gold Metal Token?

A: JAG | B:SG | C: GM | D: None of the above | Ans: C

20 Whether a new recruit is eligible for Transport Allowance?

A: No. | B: On completion of Probationary period | C: Yes | D: None of the bove | Ans: B

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QUESTION ON SENIORITY RULE

1 General principles that may be followed in determining the seniority of non-gazetted employees are enumerated in ChapterVol-I in IREM?.
a) Chapter I [b] Chapter II [c] Chapter III [d] Noneof these

2 Under which rule, is seniority of medically De categorized employees who is merged in other cadre determined?
Para 313 of IREM-Vol I [b] Para 413 of IREM-Vol I [c]Para 813 of IREM-Vol I [d] Para 313 of IREM-Vol II

3 When the dates of entry into a grade of promoted railway servants and direct recruits are the same they should be put in alternate positions, the Promotes being_____to the direct recruits, maintaining inter-se-Seniority of each group
a) same b) junior **c) senior** d) None of these

4 Gangmen transferred to the workshop under 10 percent quotas is calculated for the purpose of seniority, how many seniority of his service is calculated.

a) 50 percent service b) 70 percent service c) 80 percent service d) 40 percent service. e) Is within Group C posts

5 For general selections (i.e those outside normal Channel of promotion & which are filled from staff of different dept./categories) , _ marks are to be awarded for seniority
a) Maximum 20 marks b) Minimum 12 marks c) 20% of total Marks **d) No marks**

6 Non-fortuitous service means the service rendered after the date of _____after due process.
a) adhoc promotion **b) regular promotion** c) appointment d) None of these

7 Reduction in pay, as distinct from reductions from a higher grade or class to a lower grade or class,_____affect a railway servant's positionon the seniority list.
a) **does not** b) will c) temporarily d) None of these

8 When two or more candidates are declared to be of equal merit at one and the same examination of RRB when training is not involved, their relative seniority is determined by_____.
a) **Date of Birth** b) Date of appointment c) Date of joining d) None of these.

9 The Railway servants transferred at their own request from one seniority unit to another shall be placed_____ the existing confirmed,temporary and officiating Railway servants in the_____grade.
a) similarly,above b) above, lower c)**below,relevant** d) none of these

10 Trackmen transferred to workshop under 10% quota, how much percentage of his service is counted for the purpose of seniority.

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a) **50% service** b) 60% service c) 30% service d) 20% service

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11 In case the training period of a Direct Recruit is curtailed in exigencies of services, the date of joining the working post in such a case shall be

a) date of joining the post after curtailment | b) date of publication of training results | C) **original date of joining the post after completion of prescribed training** | none of these

12 Which Rules determine the seniority of candidates recruited throughRRB or by any other recruitment authority.

a) Rule 301 | b) Rule 308 | c) **Rule 303** | d) None of these

13 The seniority of the candidates of the same RRB panel sent for initial training in batches due to administrative exigencies will be regularized interms of Rule _____of IREM Vol.I

a) **303a** | b) 303 b | c) 304 | d) 304 b

14 The seniority of Railway servants transferred on mutual exchange is determined as per Rule_____of IREM Vol.I

a) 309 | b) 308 | c) **310** | d) 311

15 The surplus employees re-deployed in other posts shall be entitled thebenefit of past service in the previous department by

a) 100% | b) 50% | c) **Nil** | d) None of these

16 The seniority of staff directly recruited in the Diesel Loco Workshops aredealt as per which Rule of IREM Vol.I

a) 323 | b) 325 | c) **324** | d) 326

17 The seniority of Gazetted officers are dealt in which chapter of IREM Vol.I

a) III A | b) **III B** | c) IV | d) II

18 Railway servants can peruse the seniority lists as per Para_____ofIREM Vol.I

a) 322 | b) 320 | c) **321** | d) None of these

19. The Track Maintainers transferred on lateral induction against 40%quota will be given seniority by

a) 50% | b) 100% | c) bottom seniority | d) 30%

20 The seniority of medically de-categorized staff absorbed in alternativeposts shall be allotted

a) with reference to length of service | b) with reference to length of service rendered in the equivalent grade | c) **bottom seniority** | d) None of above

21 The seniority of the staff who request for change of category on medicalgrounds shall be treated as

a) transfer of own request | b) medical de-categorization | c) transfer on administrative grounds | d) transfer on surplus account

22 The rules regarding to Section Officers/Accounts is dealt in para _____of IREM Vol.I

a) 312 | b) 319 | c) **317** | d) 315

23 Para 319 of IREM Vol.I deals with

a) seniority of Accounts Clerks | on promotio n | b) departmental examination/trade test

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c) Seniority on promotion to non-selection posts	**d)** seniority on re-deployment of surplus staff

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LEAVE RULES:

1 For the purpose of grant of Child care leave, child means
a) A child below the age of 21 years b) An offspring of any age with a minimum disability of 30%
c) Both a & b d) None of the above are true

2 In a calendar year, in the case of a single female employee CCL cannot be granted for more than
2 spells b) 3 spells c) 4 spells d) 6 spells

3 CCL may not be granted for less than_____days.
a) 15 days b) 10 days c) 5 days d) 30 days

4 How many days of LAP in a calendar year, a permanent/ Temporary Railwayservant shall be entitled to get ?
a) 20 days b) 15 days c) 30 days d) 45 days

5 A female Railway employee shall be entitled to maternity leave for ----------
a) 180 days b) 120 days c) 90 days d) 130 days

6 For miscarriage, including abortion, what period of Maternity leave may be grantedin the entire service?
a) 6 weeks b) 45 days c) 7 weeks d) 43 days

7 Paternity leave is admissible with less than two surviving children for a period of--
a) 10 days b) 20 days c) 15 days d) 25 days

8 Maximum days of leave on average pay that can be accumulated is--
a) 120 b) 180 c) 190 d) 300

9 LAP shall be credited to a Railway servant at the rate of---------
a) 2 ½ days per month b) 15 days per quarter c) 25 days per half year d) none of the above

10 How many days of LAP per year can be credited to a school teachers?
a) 10 days b) 5 days c) 7days d) 8 days

11 If an employee joined on 10th October 2021, then how many max. LHAPs he willget on 1st Jan 2022?
a) 4 days **b) 5 days** c) 6 days d) 10 days

12 Maximum encashment of leave on average pay in the entire service is……
a) 10 days b) 60 days c) 360 days d) 300 days

13 Which of the following are true regarding Work Related Illness and Injury Leave(WRILL).
a) Full pay and allowances will be granted to all. employees during the entire periodof hospitalization on account of WRILL
b) Government servants (other than RPF/RPSF) will be paid full pay and allowancesfor the 6 months immediately following hospitalization and Half Pay only for 12 months beyond that period
c) both a & b
d) none of the above.

14 Regarding Paternity Leave for child adoption, which of the following are true?
a) A male Railway servant (including an apprentice) with less than two survivingchildren, on valid adoption of a child below the age of one year, may be grantedPaternity Leave by an authority competent to grant leave for a period of 15 dayswithin a period of six months from the date of valid adoption.
b) If Paternity leave is not availed of within the period specified, such leave shall not be treated as lapsed and will be added to LAP.
c) both a & b
d) none of the above

15 Child care leave can be granted to the eligible employees with_____

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a) Child Care Leave can be granted at 100% of leave salary for all the 730 days.

b) Child Care Leave can be granted at 100% of leave salary for the first 365 daysand 80% of leave salary for the next 365 days.

c) Child Care Leave can be granted at 100% of leave salary for the first 365 daysand 50% of leave salary for the next 365 days

d) Child Care Leave can be granted at 80% of leave salary for the first 365 days and100% of leave salary for the next 365 days

16 Commuted leave is admissible on

a) Medical certificate b) Request of an employee c) Discretion of competent authority d) None

17 A Railway employee shall be granted leave of any kind for a continuous period ofnot exceeding……

a) 3 Years b) 4 years **c)** 5 years d) 6 years

18 How many occasions does a workshop staff be granted half a day's LAP?

a) 6 occasions b) 10 occasions c) 8 occasions d) 12 occasions

19 Regarding study leave which of the following are true?

a) Max period of 24 months in the entire service of a Railway employee and up to 12 months at a time.

b) Combined with other type of leave with leave salary (LAP/LHAP) excluding extra ordinary leave, leave can be permitted up to 36 months for a Railway employee doing PhD

c) both a & b

d) none of the above

20 Which of the following leave may be granted to a Rly. Servant, Volunteered todonate blood in Govt./Rly. Hospitals for railway employees

a) Special Casual leave **b)** casual leave c) LAP d) LHAP

Office Procedure:

1. The two main parts of a file are_____and___--'-

[a] **notes and correspondence** [b] Notes and Noting's

[c] letters and replies [d] None of the above

2. The notes or correspondence portion of the file is said to have been become bulky, if it exceeds_____folios

[a] 300 [b] 400

[c] 350 [d] 250

3. Retention period for proceedings of departmental proceedings committee.

[a] 1Year [b] 2 Years

[c] 5 years [d] 10 years

4. Retention period of answer books of departmental exams.....

[a] One year from the date of exam **[b] Oneyear from the date of result**

[c] 5 years from the date of exam [d] 5 years from the date of results

5. Under classif Ication of records class ·C means

[a] keep and microfilm [b] keep but do not microfilm

[c] keep for specified period only [d] None of the above

6. What colour s of ink are permitted to be used for communication by officials up to JA grade level

[a]Black & Green [b] Blue & Green

[c]Black& Blue [d] Black, Blue and Green

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Passes / PTOs

1. How many sets of Privilege Pass is an officer eligible after putting in 5 Yrs of service ?
   6 sets b) 3 sets
   c) one set d) No pass
   Ans: a) 6
2. How many sets of pass is an employee in Group 'C' eligible after 3 years of qualifying service?
   a) 3 sets b) 2 sets
   c) 1 set d) 1set Pass and 4 Set PTOs.
   Ans: c} 1set
3. Is a widow eligible to take with her a Companion?
   Yes b) No
   c) if she so desires d) none
   Ans: b) No
4. What kind of Duty Pass is an employee eligible working Level in 14?
   a) Gold b) None
   c) Silver d) Bronze
   Ans: c) Silver
5. Is an Officer eligible to travel on duty with Spouse?
   a) No b) Yes
   c) with family d) None
   Ans: b) Yes
6. What is the validity of Kit Pass?
   a) 6 months b) 3 months
   c) 1month d) Not more than 1month before or and not more than 6 months after the date of transfer.
   Ans: d) Not more than 1 month before or and not more than 6 months after the date of transfer.
7. What is the-amount eligible for moving a Car from one station to another station by Road for an employee who is working in Level 11 on transfer from Secunderabad to Vijayawada?
   a) Rs.20 per Km b) Rs.50 per Km.
   c) Rs.30 per Km d) Rs.40 per Km.
   Ans: b) Rs.50 per Km.
8. How many half sets of School Cheque Pass can be issued?
   2 half sets b) 3 half sets
   c) 4 half sets d) 6 half sets
   Ans: d) 6 half sets
9. What is School Pass?

   a). Given to the children of Railway employees studying in schools/ colleges at outstation for boys below the age of 18 years and girls of any age.
   b) Given to all the members of the family
   c) Given to only girl children of anyage
   d) Given to boys of any age

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Ans: (a) Given to the children of Railway. Employees studying in schools/colleges at outstation for boys below the age of 18 years and girls of any age.

10. The monetary value of Gold Metal Token Pass.

a) Rs.26,112/- **b) Rs .26,113/-**
c) Rs. 26,114/- d) Rs. 26,115/-

Ans: b) Rs.26,113/-

11. What is the full form of abbreviation AILTC?

a) All India Leave Travel Consortium b) All India Leave Travel Commission
c) All India Leave Travel Concession d) All India Leave Travel Consideration

Ans: C) All India Leave Travel Concession

12. Who are eligible for AILTC?

a) Only Officers b) only Group 'C'
c) All staff d) Group 'D'

Ans: c) All staff.

13. Whether the legally divorced daughter having an income of Rs.9,000/- per month is eligible for PRCP?

a) Yes No
c) Discretion of Authority d) None

Ans: b) No

14. When is Split Pass issued?

a) Split the pass into Two b)Split the pass into three
C) When the official is asked to report for duty, if he 1s at outstation with his family. d) Can be given at any time.

Ans: c) When the official is asked to report for duty, if he is at outstation with his family.

15. Whether a regular Medical Contract Practitioner (CMP) is eligible for Privilege Pass?

a) Yes b) No
c) at the discretion of the authority d) None

Ans: a) Yes.

16. How many Passes/PTOs are the regular Medical Contract Practitioner (CMP) is eligible?

a) One set b) One set Pass & One set PTO
c) Three Sets Passes & 4 Sets PTO. d) None of the above.

Ans: a) One set

17. Employees under suspension may be given not more than ------- sets of PTOs per year at the discretion of authority I when he is permitted to leave the station in exceptional circumstances.

a) one set of Pass/PTO b) Two sets of Passes/PTOs
c) Three sets of Passes/PTOs d) only PTO

Ans :(a) one set of Pass/PTO

18. Pass for Gallantry Award is given in 'recognition to those honored by .....

a) President of *India* b) G.M
c) Rly.Board d) Governor of the State

Ans: a) President of *India*

19 How many sets of PRC.P" is Chairman CEO Eligible.?

a) 6 Sets b) 3 sets
c) None d) .2 sets & One PTO

Ans: b) 3 sets

20. The block year for claiming Special Leave Cash package?

a) 2019 to 2021 b) 2018 to 2020
c) 2018-2021 d) Any time within 3 yrs Ans: 2018 to 2021

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21. What is Residential Card Pass?

a) For travelling anywhere to anywhere in India.

b) From Home to Office and back

c)For travelling with family from Home to any station and back

d) None of the above

Ans: b) From Home to Office and back

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QUESTIONS ON FILLING UP OF VACANCIES WITHIN GROUP 'C'

1 Declaration of posts as "Selection" or "Non-selection" is done by

a) PCPO | b) GM | c) **Railway Board** | d) DRM

2 The positive act of selection consists of

a) Viva-voce | b) Written test & Viva-voce | c) **Written Test** | d) Benchmarking

3 The minimum period of service for eligibility for promotion within Gr.C is

a) 1 year | b) **2 years** | c) 21 days | d) 3 years

4 The condition of minimum 2 years of service has to be certified at the timeof

a) attending for selection | b) **at the time of actual promotion** | c) on the date of assessment | d) None of the above

5 The number of staff to be called for selection in the order of seniority

a) equal to the number of vacancies | b) 1.5 times of no. of vacancies

c)double the number of vacancies | d)**3 times the no. of vacancies**

6 The no. of employees to be called for general selection which are filled fromstaff of different departments/categories.

a) all eligible volunteering staff | b) 3 times equal to no. of vacancies | c) equal to vacancies | d) 5 times of vacancies

7 The panel currency of 2 years shall be calculated from

a) the date of publication | b) **the date of approval of panel** | c) the date of assessment of vacancies | d) infinite.

8 The rules regarding automatic empanelment of staff in higher gradeselection/non-selection posts are contained in_____

a) Para 221 of IREM Vol.I | b) Para 219 of IREM Vol.I | c) Chapter II of IREM Vol.II | **d) Para 222 of IREM Vol.I**

9 The duration of debarment from promotion for refusal on first occasion

a) **1 year** | b) 6 months | c) 2 years | d) 15 months

10 Any adhoc promotion against regular vacancies shall have the priorpersonal approval of

a) GM | b) **PCPO** | c) Railway Board | d) DRM

11 Bench marking for filling up of post in Level-6 is

a) 7 out of 15 | b) 8 out of 15 | c) 9 out of 15 | d) **6 out of 15**

12 Bench marking for filling up of post in Level-7 is

a) **8 out of 15** | b) 7 out of 15 | c) 12 out of 15 | d) 9 out of 15

13 Provision of scribe to persons with disabilities at the time of departmental examination is allowed to

a) persons recruited against PWD Quota only | b) disability during service only | c) **a& b also** | d) not eligible

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14 The employees who failed in aptitude test as part of selection/suitability may be allowed to re-appear after a gap of
a) 6 months b) **3 months** c) one year d) no further chance

15 The negative marking for wrong answers in departmental selection is available where panel is drawn
a) in the order of seniority b) **in the order of merit**
c) a& b d) no negativemarking

16 The marks to be deducted for wrong answers
a) ½ mark b) 2/3 marks c) **1/3 mark** d) 1 mark

17 Reservation for SC/ST in Railway Recruitment is_____% &_____%respectively.
a) **15 & 7.5** b) 7.5 % & 15 % c) 10 % & 10 % d) 7.5 & 7.5 %

18 If candidate under zone of consideration for appearing a selection who has not expressed un-willingness does not appear in the selection ---
a) Selection stands cancelled b)Selection will still be finalized
c) Supplementary selection has to be conducted d) None of these

19 For selection to an Ex-cadre post anticipated vacancies should be taken up to
a) **2 Years** b) 1Year c) 6 months d) 3 Years

20 The provision of selecting "Best among failed" SC/ST candidate may beapplied only when
a) the selection is for Non-safety post and sufficient no. of SC/ST candidate qualifying with general standard are available against the SC/ST vacancy.

b) the selection is for Safety post and sufficient no. of SC/ST candidate arenot available against the SC/ST vacancy even after applying relaxedstandard.
c) **the selection is for Non-safety post and sufficient no. of SC/ST candidate are not available against the SC/ST vacancy even afterapplying relaxed standard**.

d) the selection is for Safety post and sufficient no. of SC/ST candidate are available after applying relaxed standard against the SC/ST vacancy.

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PNM:

1 Zonal PNM meetings will be held once in_____.
a) 2 months b) 3 months c) 4 months d) 6 months

2 Who is the Chairman of PNM meeting at Divisional level?
a) DRM b) ADRM c) Sr.DEN/Co-ord d) Sr.DPO

3 How many agenda items are permitted in PNM meeting?
a) 15 b) 30 c) 40 d) 50

4 How many Union representatives are allowed for PNM meetings at Headquarters level?
a) 15 b) 18 c) 20 d) 25

5 Who will be the Chairman of Ado-hock Railway Tribunal
a) Supreme Court Judge b) High Court Judge c) District Judge d) Retired Supreme Court Judge

6 Departmental Council meeting under JCM will be held
a) Once in a year b) 2 times in a year c) 3 times in a Year d) 4 times in a year

7 What is the maximum number of participants in Departmental Counsel meeting from Staff side?
a) 20 b) 25 c) 30 d) 40

8 In which year PNM was founded
a) 1949 b) 1950 c) 1951 d) 1952

9 How many representatives from each of the recognized Unions are allowed for the PREM meeting.
a) 2 b) 3 c) 4 d) 5

10 PNM was first founded by
a) Lal Bahdur Sastry b) B. Rajendra Prasad c) V.V. Giri d) Zakir Hussain.

11 Members of recognized unions can participate in _
a) PNM Meeting b) JCM Meeting c) PREM Meeting d) All of the above.

12 The recognized unions elect their members by _ .
a) Election b) Nomination c) Both (a) & (b d) None of the above.

13 The recognized unions can collect funds through
a) Membership b) Donations c) Business d) None of the above.

14 The recognized unions can't collect funds through
a) Membership b) Donations c) Business d) b & c

15 cannot participate in Secret Ballot Elections.
a) RPF Staff b) School Teachers c) Both (a) & (b d) None of the above.

16 Trade Unions securing _ % or more of the total electorate shall be considered for recognition
a) 20% b) 30% c) 35% d) 25%

17 Recognition of Trade Unions shall normally be valid for years.
a) 05 years b) 06 years c) 08 years d) 10 years

18 The recognition granted to Trade Unions can be withdrawn / suspended by .
a) PCPO b) General Secretary c) General Manager d) Railway Board

19 is the prerogative of a recognized Trade Union

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a) Collection of fund

b) Collection of grievances

c) Collective bargaining

d) None of the above

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20) In order to register a Trade Union, the minimum No. of members required is _ _.

a) 10 b) 07 c) 15 d) 05

Retirement benefit:

1 What % of casual Labour service is reckoned for pensioner benefits
a)20% b) 30% c) 40% **d)50%**

2 Compassionate Allowance shall not be more than _ _ of pension.
a) 1/4 b)1/2 c) 1/3 **D)2/3**

3 A Retirement Gratuity is calculated at the rate of ____of emolument for every completed 6 months period of service.
a)1/4 b) 1/2 c) 1/3 D) 2/3

4 Railway servant who dies while in service with 5 years' service but less than 11 years' service is eligible for_____times of emolument towards gratuity.
a) 5 b) 6 c) 8 **D) 12**

5 What is the Minimum pension in Railway?
a) Rs.8000 **b) Rs.9000** c) Rs.10000 d) Rs.11000

6 What is the Maximum age a dependent son is eligible for family pension.
a) 18 yrs b) 20 yrs c) 23yrs **d) 25 yrs**

7 Pension is calculated at the rate of_____average emolument
a) 30% b) 40% **c) 50%** d) 60%

8 Enhanced family pension is paid at_____of last pay drawn by the employee
a)30% b)40% **c)50%** d) 55%

9 An employee is eligible for retirement gratuity if the qualifying service is equal to more than____
a) **5yrs** b) 10yrs c) 20yrs d) 33 yrs

10 What is the Maximum % of pension that can be commuted at the time of retirement.
a) 30% **b) 40%** c) 50% d) None of the above.

11 Which rule of the Railway service pension rule 1993 deals with retirement on completion of 30 years qualifying service
a) Rule65 **b) Rule 66** c) Rule67 d)Rule68

12 Which rule of the Railway service pension rule 1993 deals with retirement on completion of 20 years qualifying service.
a) Rule65 b) Rule66 **c) Rule 67** d))Rule68

13 Which rule of the Railway service pension rule 1993 deals with family pension
a) Rule70 b) Rule73 **c) Rule75** d) Rule76

14 What is the present rate of Fixed Medical Allowance?
a) Rs.1000/- **b) Rs.2000/-** c) Rs.2500/- d) Rs.3000/-

15 What is the Max. Qualifying service for the purpose of pensioner benefits.
a)20Yrs. b) 25 Yrs c)30 Yrs. **d)33Yrs.**

16 What is the Maximum Amount of gratuity payable to a Railway servant.
a) 10Lakhs b) 15Lakhs **c) 20Lakhs** d) 25Lakhs

17 What is the Minimum Qualifying service for eligibility of pension
a) 5Yrs **b) 10Yrs.** c) 20Yrs. d) 33Yrs.

18 Family pension is calculated at what % of last pay drawn by the employee
a)20%. **b) 30%** c) 40% d) 50%

19 From what age pensioners are eligible for 20% additional pension
a)75Yrs. **b) 80Yrs.** c) 85Yrs. d) 90Yrs.

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20 Which of the following is not counted as qualifying service.

a) PeriodofProbation b) Leave Without pay on medical ground c) LHAP **d) Leavewithout pay.**

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OFFICIAL LANGUAGE

1. Constitutional provision related to official language is in which part of the Constitution of India? **Part 17**

2. Which chapter of the Constitution mentions about the official language of the Union?
Chapter 1

3. In which article of the Constitution of India mentions about the language to be used in the Parliament? **Article 120**

4. Which article of the Constitution of India mentions about the language to be used in the Legislature? **Article 210**

5. Which article of the Constitution of India mentions about the official language of the Union?
Article 343.

6. Which article of the Constitution of India mentions about the Commission and Committee of Parliament in connection with the official language?
Article 344

7. Which article of the Constitution of India mentions about the official language or official languages of the state?
Article 345

8. Which article of the Constitution of India mentions about the language of communication between one state and another or between a state and the Union?
Article 346

9. Which article of the Constitution of India mentions about the language used in the Supreme Court and High Courts and for the Acts, Bills etc. ?
Article 348

10. Which article of the Constitution of India mentions about the language used in The representation for the prevention of grief?
Article 350

11. Which article of the Constitution of India mentions the Directive for the development of Hindi language?
Article 351

12. According to the Constitution of India, the official language of the Union will be Hindi and the script will be **Devnagri.**

13. Which sub-committee of Parliamentary Committee on Official Language inspects Railway offices?
Second sub Committee

14. How many members of Lok Sabha are there in the Parliamentary Committee on Official Language constituted under section 4 of the Official Language Act?
20

15. How many members of Rajya Sabha are there in the Parliamentary Committee on Official Language?
10

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15. Which Article of the Constitution deals about the official languages of the state?
Eight

17. Part 17 of the Constitution of India contains how many articles for the purpose of Official language?
11

18. In which year was the Official Language Act passed?
1963

19. Under which section of the Official Language Act, some documents are compulsorily prepared, issued in both Hindi and English languages?
Section 3 (3)

20. Who is empowered to make rules to implement the Official Language Act?
Central Government

21. During which year the first amendment to the Official Language Act was made?
1967

22. In which year the President's orders regarding the Official language were issued on 27 April?
1960.

23. During which year the Official Language Resolution was passed?
1968

24. In which year the Official Language Rule was passed?
1976

25. When the Official Language Rules were amended first?
1987

26. Official Language Rules do not apply to which state of India?
Tamil Nadu

27. With a view of implementation of Official Language, how many regions have been classified in India under Official Language Rules 1976?
3

28. Andaman and Nicobar Islands come under which area classified for the propagation of the Official language ?
'A' region

29. The state of Himachal Pradesh comes under which area classified for the use of the official language?
'A'region

30. The definition of 'working knowledge in Hindi' is given in which rule of the Official Language Rules?
10

31. Definition of 'Proficiency in Hindi' is included in which rule of the Official Language Rules?
9

32. The names of the Central Government offices of which percent employees have acquired working knowledge of Hindi are notified in the Gazette. ?
80%

33. When is Hindi Day celebrated every year in the Central Government Offices?
14 September

34. When did the Constituent Assembly accept Hindi as the official language?
14 September 1949

35. Which of the following languages is not included in the 8th Schedule of the Constitution?
English

36. How many languages have been recognized in the 8th schedule of the constitution so far?
22

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Accordingly, in which language can any employee can submit his application, appeal or representation?

In Hindi English

38. During which year was the first Official Language Commission formed?

1955

39. In which rule of the Official Language Rules have been mentioned about the imperative of issuing bilingual form manuals, codes, other literature related to process etc. ?

Rule 11

40. According to Official Language Rule-12, who is entrusted with the responsibility of ensuring proper compliance of the instructions issued in connection with the Official Language Act and Rules?

Administrative Head of the office

41. Who was the Chairman of the First Official Language Commission constituted in 1955?

Sri B.G. Kher

42. According to the annual programme of the year 2019-20 for the use of Hindi, what percentage of the originating correspondence is required to be done in Hindi from the divisions of this railway to the headquarters of this railway?

55 Percent

43. What is the period for holding the meetings of the Official Language Implementation Committee constituted in Central Government Offices?

Once in 3 months

44. What is the period of holding of meetings of the Town Official Language Implementation Committee?

Once in 6 months

45. How many rules are there in the Official Language Rules 1976?

12

46. The annual program of Official Language is released by which ministry?

Ministry of Home Affairs

47. How many times in a year the examinations of Hindi courses prescribed under Hindi Teaching Scheme are conducted?

Twice

48. In which order the boards are displayed in non-Hindi speaking areas?

Regional Language, Hindi, English

49. Who is the Chairman of the Official Language Implementation Committee of the Divisional Railway Office?

DRM

50. Who is the Chairman of Zonal Railways Official Language Implementation Committee?

GM

52. How many Sections are there in the Official Language Act 1963?

9

53. Under which section of the Official Language Act, 1963, the Central Government has been given the power to make rules related to the official language.

Section 8

54. What is the scheme launched for writing original books in Hindi on technical subjects ofRailway?

Lal Bahadur Shastri Technical original Book Writing Award Scheme

55. What is the name of the scheme launched to award original fiction / story collection and novel Writing

Munshi Premchand Award Scheme

56. What is the name of the scheme launched to award Original poetry, poetry collection?

Maithilisharan Gupta Award Scheme

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Under which rule of the Official Language Rules 1976, an employee can write Notings or minutes on the file in Hindi or English?

Rule 8(1)

58. Who is the Chairman of the Railway Board Official Language Implementation Committee?

Chairman, Railway Board

59. Who is the member secretary of the Railway Board Official Language Implementation Committee?

Director (OL)

60. Who is entrusted with the responsibility of complying with Section 3(3) of the Official Language Act?

officer signing such documents

61. Under which rule of the Official Language Rules 1976, in which language is it required to reply to the letters received in Hindi?

Hindi

62. For which work has Mantra Software developed by the Department of Official Language, Ministry of Home Affairs?

Typing

63. What is the name of the software available to learn Hindi through the languages of India?

Leela

64. What is the name of the software related with converting Hindi speech into Hindi text?

Shruthlekhan - Rajbhasha

65. What is the name of the software related with converting Hindi text to Hindi speech ?

Pravachak - Rajbhasha

66. According to the annual program for the usage of Hindi in the year 2019-20, what percentage of the original correspondence in Hindi is to be done from the 'C' region to the central government offices of 'A' region. ?

55 %

67. According to the annual program for the usage of Hindi in the year 2019-20, what percentage of the original correspondence in Hindi is to be done from the 'C' region to the central government offices of 'B' region?

55%

68. According to the annual program for the usage of Hindi in the year 2019-20, what percentage of the original correspondence in Hindi is to be done from the 'C' region to the central government offices of 'C' region?

55 %

70. According to the annual program for the year 2019-2020for the usage of Hindi,as per the target set what percentage of lettersreceived in Hindi should be replied in Hindi ?

100%

71. For the use of Hindi, according to the annual program for the year 2019-20, as per the target set what percentage of Hindi noting is required to be done in the 'C' region. ?

30%

72.. For the use of Hindi, according to the annual program for the year 2019-20, as per the target Set what percentage of Hindi Dictations are required to be given in the 'C' region?

30 %

73. According to the annual program for the year 2019-20 for the use of Hindi, what percentage of the target is setfor the purchase of all types of electronic devices including computersinbilingual form in the 'C' region?

100 %

74. Which forms of the numerals should be used in official purposes of the Union of India?

International form of Indian Numeral

75. The names of the Central Government offices of which percent employees have acquired working knowledge of Hindi are notified in the Gazette?

80%

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76. Under which Official Language rule the names of the Central Government offices of which 80% of employees have acquired working knowledge of Hindi are notified in the Gazette. ?
Rule 10(4)

77. What is the amount of award given under Railway Board Individual Cash Award Scheme?
Rs. 3000

78. According to the annual program issued by the Rajbhasha Department, Ministry of Home Affairs, what percentage of sections are required to be nominated for doing cent percent work in Hindi?
20

79. Under which Official Language rule the names of the Central Government offices of which 80% of employees have acquired working knowledge of Hindi are notified in the Gazette. ?
Rule 10(4)

80. Under which rule of the Official Language Rules, 1976, the administrative head is entrusted with the responsibility of complying with the Official Language Act and the Official Language Rules ?
Rule 12

81. According to which sub rule of Official Language Rules 1976, an employee can submit his application,appeal or representation in Hindi or English?
Rule 7(1)

82. According to which sub rule of the Official Language Rules 1976, where an employee can demand anyorders or notices served to him Hindi or in English.
Rule 7(3)

83. Under which rule of the Official Language Act 1976, all name plates, sign boards, letter heads, inscriptions on envelopes, other items of stationery used in any central government office should be inHindi and English?

Rule 11(3)

84. Which of the following honors are given to the General Managers and above level officers for doing
excellent work in the Official Language Hindi ?
KamlapatiTripathiRajbhasha Gold Medal

85. Which of the following honors are given to the SAG and above officers for doing excellent work in theOfficial Language Hindi ?
Rail Manthri Rjbhasha Silver Medal

OBJECTIVE TYPE QUESTIONS & ANSWERS ON OFFICIAL LANGUAGE

1. In which part and in which Article of the Constitution Provision regarding The Language to be used for transaction of business in Parliament exists ?

(Article 120 of Part V of the Constitution)

2. In Which part and in which Article of the Constitution Provision regarding The Language to be used for transaction of business in State Legislature exists ?

(Article 210 of Part VI of the Constitution)

3. In Which part of the Constitution and in which Article Provision regarding on Official Languages Exists ?

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(Part XVII and Article 343 to 351 of the Constitution)

4. In Which part of the Constitution Provision regarding Official Language exists ? How many chapter and articles are there in that Part ?

(Part XVII of the Constitution) It has four chapters and articles No. 343 to 351.I chapter contains articles 343 and 344.
II chapter contains articles 345, 346, 347.
III chapter contains articles 348, 349.
IV chapter contains articles 350, 351..

5. Which part of the Constitution Contains Provision regarding Official Language and when it was Passed by the Constituent Assembly ?

(Part XVII of the Constitution) (14 September 1949)

6. Which articles of the Constitution contains provision regarding the Official Language of the Union of India ?

(Article 343 and 344)

7. Which articles of the Constitution contains provision regarding the Language to be used in the Courts etc.

(Article 348 and 349)

8. Which article of the Constitution contains Provision regarding the Official Language of States ?

(Article 345)

9. At present how many languages are enlisted in the Eighth Schedule of the Constitution ?

(Twenty two)

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10. When the Constitution was adopted, how many languages were included in the Eighth Schedule initially and how many languages were added to that later on ? Name languages so added and also the year in which they were added.

(When the constitution was adopted, only 14 languages were included in the Eighth Schedule. In 1963 Sindhi was added to that list. In 1992 Nepali, Konkani and Manipuri were added. Now Bodo, Dogri, Mythili and Santhali have been included)

11. According to Article 343 (1) of the Constitution, Hindi in which script is the Official Language of the Union of India ?

(Hindi in Devnagari script)

12. As per the Constituion, when should Hindi have become the Official Language of the Union of India ?

(26.01.1965)

13. Who was the Chairman of the Official Language Commission constituted under Article 344 (1) ?

(Shri Bal Gangadhar Kher)

14. When and under what authority was the Official Language Commission Constituted ? Who was its Chairman ?

(Under the provisions made in Article 344 (1), the Official Language Commissionwas Constitued on 07.06.1955. Its Chairman was Shri B.G. Kher)

15. Name the articles of the constitution which in their provisions contain reference to Eighth Schedule of the Constitution ?

(Article 344 (1) and 351)

16.a. Who was the Chairman of the committee of Parliament on Official Languages constituted Under article 344 (4) ?

b. What was the work entrusted to that committee ?

(a) Sri Govind Vallabh Pant.

(b) To review the recommendations made by the Official Language commission constituted under Article 344 (1) and to submit its report on that to the president of India)

17. When the Parliament was discussing the Official Languages Act, three successive Prime Ministers Assured the House that Hindi would not be imposed on Non-Hindi speaking people.

(a) Who were the late successive Prime Ministers who gave such assurance.

Late Shri Pandit Jawaharlal Nehru.Late Shri Lal Bhahadur Shastri.

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Late Smt Indira Gandhi.

(b) Which section of the Official Language Act contains provision regarding that Hindi would not be imposed on Non-Hindi speaking people ?

Section 3 (5) of Official Languages Act.

18. How many sections are there in the Official Language Act 1963 as amended in 1967 ?

(9 sections)

19. Name the sections of Official Languages Act 1963 (as amended in 1967) which are not applicable to Jammu & Kashmir ? Which section of the Act contains provisions to that effect ?

Section 6 & 7 of Official Language Act 1963 (as amended in 1967) are not applicable to Jammu & Kashmir. Section 9 of this act contains provisions regarding that effect.

20. Under what authority is the Annual Programme prepared ? Who Prepares the same ?

On the authority of Official Language resolution passed in 1968, the Official Language Department of the Ministry of Home Affairs prepares the Annual Programme.

21. Under what Authority were The Official Languages (Use for Official Purposes of the Union) Rules 1976 introduced and passed by Parliament ?

(Exercising powers conferred by section 8 read with sub-section (4) of section 3of the Official Language Act 1963 (as amended in 1967).

22. To Which state of India are the Official Languages (use for Official purposes of the Union) Rules 1976 not applicable ?

Tamil Nadu

23. Where does the provision making the administrative head of each Central Government Office responsible for compliance of provisions of Official Language Act and Rules exists ?

Section 12 of the Official Languages (use for Official purposes of the union) Rules, 1976.

24. When is the Hindi Day celebrated every year ?

14th Septmber.

25. Why was the Official Languages Act 1963 passed ?

For making provisions regarding the contitued use of English along with Hindi even After1965.

26. What is the periodicity of the meetings of the following committee ?

a. Town Official Language Implementation Committee.
b. Official Language Implementation Committee.
c. Meetings of the Hindi Salahakar Samiti.

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a. Once in Six months.
b. Once in three months, four in a year.
c. Once in three months, four in a year.

27. Which are the three regions as per the provisions made in the Official Languages Rule ?

Region A, B & C.

28. What are the States under Region A, B & C ?

Region A -- Bihar, Haryana, Himachal Pradesh, Madhya Pradesh, Rajasthan and Uttar Pradesh and Union Territories of Delhi and Andaman and Nicobar Islands.

Region B - - Gujarat, Maharashtra and Punjab and the Union Territory of Chandigarh.

Region C -- States and Union Territories other than those referred in Region A & B

(Tamilnadu, Kerala, Karnataka, Andhra Pradesh, Orissa, West Bengal, Sikkim, Assam,Nagaland, Meghalaya, Arunachal Pradesh, etc.)

29. In which region is Tamilnadu situated ?

Region C

30. What are the documents coming under Section 3 (3), of OL Act which are to be issued in Hindi-English bilingual form ?

1. Resolution
2. General Orders, Memorandum, Circulars etc.
3. Rules
4. Notifications
5. Administrative and Other Reports
6. Press Communiques
7. Contracts, Agreements etc.
8. Licences and Permits
9. Tender Notices and Tender Forms
10. Papers to be laid before a House or both the Houses of Parliament.
11. Reservation Charts.

31. What are the cases where Regional Language, Hindi and English should be used ?

1. All Name Boards and Sign Boards
2. Forms used by the public
3. Station Announcements

32. What is the order of language used in the Name/Notice Boards ?

Regional Language- Hindi-English.

33. What are the places where Hindi and English should be used ?

1. Rubber Stamps
2. Headings on all File covers and Registers
3. Name Badges and Photo Identity Cards

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34. What is the order of Language in the above cases ?

Hindi on top English at Bottom.

35. What are the Hindi examinations conducted at the Government Offices ?

Prabodh, Praveen and Pragya.

36. What are the facilities available for writing the above Hindi examinations ?

Regular, Intensive, Correspondence Course, Part time classes and Private.

37. What is the foreign language included in the Eighth Schedule ?

Nepali.

38. What are the languages included in the Eighth Schedule ? (articles 344 (1) and 351)

1. Assamese 2. Bengali 3. Gujarati 4. Hindi 5. Kannada 6. Kashmiri
7. Konkani 8. Malayalam 9. Manipuri 10. Marathi 11. Nepali 12. Oriya
13. Punjabi 14. Sanskrit 15. Sindhi 16. Tamil 17. Telugu 18. Urdu.
19. Mythili 20. Santhali 21. Bodo 22. Dongri

39. What is meant by Notified Office ?

***Notified Office * means an office notified under subrule (4) of rule 10 wherein 80% ofthe employees are qualified in Hindi.**

40. Explain * Proficiency in Hindi * and working knowledge in Hindi * ?

Proficiency in Hindi as described in Rule-9 *

An employee shall be deemed to possess proficiency in Hindi if he has passed thematriculation or any equivalent or higher examination with Hindi <u>as the medium of examination *</u>

Working knowledge in Hindi as described in Rule-10*

An employee shall be deemed to posses working knowledge in Hindi if he has passed the matriculation or any equivalent or higher examination with Hindi <u>as one of the subjects*</u>

41. Give suggestions to promote OL in Railway ?

As per Article 343 of Indian Constitution, Hindi is the Official Language of India. As per O.L. Act, 1963 Hindi is to be promoted in all Central Govt. Offices, Public Sector under takings and Nationalised Banks etc. In Railways Hindi can be implemented at various levels .

1. Hindi Training should be imparted to all employees. Trained employees shall beencouraged to work in Hindi.
2. Hindi Workshops shall be conducted in which employees shall be given training to workin Hindi.
3. Conducting of Meetings in mixed language i.e., Hindi and English.
4. Conducting of Technical Seminars and Safety Seminars, where employees are encouraged to express their views in Hindi.
5. Conducting of Table training and contact programmes for employees, in which, for clearance of doubts pertaining to their day-to-day's work inHindi.

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CMM & FMM

1. In CMM, placing order for new coach can be done by .

a)Production unit User **b) Railway Board User**

c)Zonal User d) Division User

2. In CMM, initiation of Coach Condemnation is done by_____.

a)Production unit User b) Railway Board User

c)Zonal User **d) Division User**

3. The facility of coach maintenance history is available to all level of users except_____.

a) Production unit User b) Railway Board User

c)Zonal User d) Division User

4. Full form of CMM –

a) Carriage Material Management **b) Coach Maintenance Management**

c) Coach Material Management d) Coach Maintenance Material

5. Full form of FMM –

a)Freight Material Management **b) Freight Maintenance Management**

c)Freight Material Management d) Freight Maintenance Material

6. Full form of ROAMS –

a)Rolling Accident management System b) Rolling Accident maintenance System

c) Rolling Asset management System d) Rolling Asset maintenance System

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VANDE BHARAT (Train-18)/ TRAINESET

1. How many basic units (BU) a Vande bharat train set consists with

   A. 16 B. **4** C. 8 D. 12

2. Sequence of coaches in End basic unit of Vande bharat train set

   A. **DTC-MC-TC-MC** B. MC-DTC-TC-MC

   C. TC-MC-DTC-MC D. DTC-MC-MC-TC

3. Sequence of coaches in Middle basic unit of Vande bharat train set

   A. NDTC-MC-MC-TC **B. NDTC-MC-TC-MC**

   C. NDTC-TC-TC-MC D. TC-MC-NDTC-MC

4. Axle load of Vande bharath train set

   A. 16 B. 13 **C. 17** D. 15

5. What type of coupler is used in Vande bharat train set

   A. CBC B. Screw C. Transition D. Semi permanent

6. What is RMPU?

   A. Roof Master Package Unit B. Roof Mounted Pocket Unit

   B. Roof Mounted Package Unit D. Roof Master Pocket Unit

7. What is TCMS in Vande Bharat?

   A. **Train Control and Management System** B. Train Central Monitor System

   C. Train Control and Monitor System D. Train Central and Management System

8. PIS stands for?

   A. Passenger Informative System B. Passenger Interactive System

   C. **Passenger Information System** D. Passenger Interaction System

9. At what speed Vande Bharat coaches are fit for run?

   A. 200Kmph **B. 160Kmph** C. 130Kmph D. 110Kmph

10. What type of brake system is used in Vande bharat train?

    A. Clasp Type B. BMBS C. Axle Mounted D. Wheel Mounted

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11. Advantages of Wheel mounted brake system?

A. Better Ride Quality B. Lesser Maintenance C. Better Reliability

D. All of the above

12. What is the average acceleration for the speed up to 40kmph?

A. **0.70 m/s2** B. 0.71 m/s2 C. 0.72 m/s2 D. 0.73 m/s2

13. What is the average deceleration during full service brake?

B. 0.78 m/s2 B. 0.79 m/s2 **C. 0.80 m/s2** D. 0.81 m/s2

14. What kind of braking is used in train-18?

A. Air Brake B. EP brake C. Electronic Brake D. Pressure Braking

15. New wheel diameter for Vande Bharat coaches?

A. 952mm B. 915mm C. 951mm D. 925mm

16. Condemnation diameter of Vande bharat coach wheel?

A. 855mm B. 825mm C. 845mm D. 877mm

17. Does Vande bharat coach has CP arrangement?

A. No B. Yes C. Has bolster instead D. No such arrangement

18. What is the Vande bharat Express?

A. A luxury Cruise liner

B. An electric car

C. A semi high speed train

D. A bullet train operated by Indian Government

19. What is the original name of Vande bharat Express?

A. Train-20 B. Swaraj Train C. Swadesh Train D. Train-18

20. Why is the speed of the Vade bharat train limited to 130Kmph?

A. Due to weight of the train B. Due to safety concern

B. Due to technical concerns D. Due to lack of demand for high speed trains

21. Who designed the Vande Bharat Express?

A. RDSO B. DRDO C. ICF D. IIT Bombay

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22. Where was the Vande Bharat Express manufactured?

A. RCF B. MCF C. ICF D. BLW

23. When was Train-18 renamed Vande Bharat Express?

A. 27 Jan 2019 **B.** 15 Aug 2019

C. 26 Jan 2019 D. 16 Aug 2019

24. When did the Vande bharat express go into service?

A. 1 Jan 2019

B. 15 Aug 2019

C. 15 Feb 2019

D. 31 Dec 2018

25. What is the Vande bharat express based on?

A. High speed electric multiple unit trainsets

B. Diesel loco motives

C. Mainline electric multiple unit (MEMU) trainsets

D. Bullet trains

26. Who has been manufacturing MEMU technology for the last 25years?

A. Indian railways B. ICF

C. RDSO D. MCF

27. What is KAVACH, that is incorporated in Vande bharat express?

A. A train collision avoidance system

B. A train speed monitoring system

C. A anti telescopic system

D. A anti climbing system

28. What is the special feature of Vande bharat express?

A. Wi-Fi services on demand

B. Train collision avoidance system

C. Luxurious interior

D. All of the above

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29. What is the power of Electric locomotives in Vande bharat express?

A. 12000HP B. 6000HP C. 8000HP D. 10000HP

30. Under which initiative was Vande bharat train designed and manufactured?

A. Skill India mission B. Make in India

C. Swatch Bharat D. Digital India campaign

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WAGONS

1. What is the length over Head stock of the BOXN wagon?
   (a) 9774mm
   (b) 9784mm
   (c) 9777mm
   (d) 9848mm
2. Tare weight of the BOXN wagon is?
   (a) 22.37 tons
   (b) 22.47 tons
   (c) 23.80 tons
   (d) 24.80 tons
3. Tare weight of the BRN wagon is?
   (a) 25.2 tons
   (b) 24.4 tons
   (c) 23.80 tons
   (d) 24.80 tons
4. What is the length over couplers of the BOXN wagon?
   (a) 10713mm
   (b) 10813mm
   (c) 11002mm
   (d) 10100mm
5. What is the length over couplers of the BCN wagon?
   (a) 15400mm
   (b) 15443mm
   (c) 15429mm
   (d) 15563mm
6. What is the length over couplers of the BRN wagon?
   (a) 14645mm
   (b) 14564mm
   (c) 14332mm
   (d) 14463mm
7. Gross load of the BOXN wagon is?
   (a) 78.92t
   (b) 81.28t
   (c) 86.78t
   (d) 88.81t
8. Gross load of the BRN wagon is?
   (a) 78.92t
   (b) 81.28t
   (c) 81.3t
   (d) 82.4t
9. Overall height of BOBR wagon from rail level is?
   (a) 3735 mm
   (b) 3998mm
   (c) 4324mm
   (d) 4532mm
10. Tare weight of the BCN wagon is?
    (a) 22.47tons

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(b) 25.35tons
(c) 27.20 tons
(d) 27.80tons

11. What is the periodicity of ROH for BOXN wagons?
(a) 24months
(b) 12months
(c) 36months
(d) 18months
12. What is the periodicity of POH for newly built BOXN wagons?
(a) 42months
(b) 48months
(c) 36months
(d) 72 months
13. Of which brake van is the quick coupling an important part?
(a) BVZT
(b) BVZX
(c) BVZC
(d) BVZM
14. Which of the following stock does not have the ROH frequency of 24 months?
(a) BCCNR
(b) BOXN
(c) BOXNLW
(d) BOBRN
15. Yellow zebra stripes on wagons-what does it signify?
(a) Departmental wagon
(b) Sponsored wagon
(c) Wagon for liquid stock
(d) Wagon for animals.
16. First POH periodicity for the newly built BLC containers wagon is?
(a) 4.5years
(b) 5.5 years
(c) 6.0years
(d) 6.5years
17. The BOXN bogie is designed for an axle load of?
(a) 20.50t
(b) 20.80t
(c) 20.30t
(d) 20.10t
18. POH periodicity of BG brake van is?
(a) 3.5years
(b) 2.0years
(c) 6.0years
(d) 3.5years
19. 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
20. What time relaxation of period has been given it an empty BOX wagon for sending for POH?
(a) Before15days
(b) After30days
(c) Before30days

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(c) Before 15 days

21. 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
22. What do you mean by CC rakes?
    (a) Constant contact pad
    (b) Close circuit rake
    (c) Complete coal rake
    (d) Both B and C
23. Dirt collector should be cleaned in case of Wagons.
    (a) At the time of ROH
    (b) 2months
    (c) 6months
    (d) 3months
24. ROH interval in BTPN tank wagon is?
    (a) 16months
    (b) 20 months
    (c) 18months
    (d) 24months
25. Thickness of coach flooring Ply is?
    (a) 12mm
    (b) 16mm
    (c) 19mm
    (d) 22mm
26. 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
27. 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 inner springs
    (b) Floating bolster carrying center pivot and side bearer
    (c) Un damped suspension
    (d) Cylindrical roller bearing
28. Why are EM pads provided?
    (a) To reduce wheel flange wear
    (b) To improve ride index
    (c) To increase buffer height
    (d) All the above
29. 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
30. The Std. gap between wheel and brake block in BOX wagon is?
    (a) 8mm
    (b) 8.5mm

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(c) 6.25 mm
(d) 6.8mm

31. Minimum pressure required for door operation on BOBR wagon is?
(a) 5.0kg/cm²
(b) 4.92kg/cm²
(c) 3.9kg/cm²
(d) 6.3kg/cm²

32. 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

33. On RDSO recommendations, which material is now used in BVG brake vans in place of wood dust bag?
(a) Glass wool
(b) Cottonwood
(c) Steel wood
(d) None

34. 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

35. 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

36. 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

37. 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

38. Maximum diameter of wheel on tread on BOXN wagon is?
(a) 1010mm
(b) 1000mm
(c) 950mm
(d) 906mm

39. Minimum diameters of wheel on tread on BOXN wagon during service is?
(a) 1000mm

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(b) 960mm
(c) 906mm
(d) 915mm

40. The axle load of BOXN, BCN, BDN BOBR, BTPN wagon is?
(a) 22.9t
(b) 20.32t
(c) 16.3t
(d) 12.2t

41. The wheel gauge should be measured on?
(a) Offload condition
(b) Loaded wagon
(c) Either (a)or(b)
(d) Empty wagon

42. The condemning diameter of wheel of BOY wagon is?
(a) 990mm
(b) 906mm
(c) 813mm
(d) 860mm

43. The new diameter of wheel for BOY wagon is?
(a) 990mm
(b) 1090mm
(c) 1000mm
(d) 915mm

44. The condemning diameter of BOBR wheel is?
(a) 815mm
(b) 906mm
(c) 990mm
(d) 860mm

45. The condemning diameter of BTPN wheel is?
(a) 813mm
(b) 990mm
(c) 906mm
(d) 860mm

46. The condemning diameter of BWL wheel is?
(a) 813mm
(b) 906mm
(c) 915mm
(d) 860mm

47. The radius at the root of the flange of new worn wheel profile is?
(a) 14mm
(b) 16mm
(c) 18mm
(d) 120mm

48. Permissible maximum flat surface on tread on other BG wagon are?
(a) 75mm
(b) 60mm
(c) 75mm
(d) 70mm

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49. 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

50. Which of the following is an integrated portion of an axle?
(a) Cap
(b) Roller bearing
(c) Journal
(d) None of these

51. Permissible thickness of CASNUB bogies composite brake block while leaving yard is?
a) 20 mm
b) 10mm
c) 9mm
d) 8mm

52. What is the permissible variation in a group for load bearing & sunbber spring?
(a) 2mm
(b) 3mm
(c) 4mm
(d) 5mm

53. What is the Std. thickness of brake block of BOXN wagon is?
(a) 52mm
(b) 54mm
(c) 56mm
(d) 58mm

54. How many side frames are fitted in a CASNUB trolley/bogie?
(a) **2**
(b) 1
(c) 3
(d) Nil

55. What is the axle load of CASNUB trolley except CASNUB22Hs?
(a) 19.2t
(b) 22.9t
(c) 20.3t
(d) 20.9t

56. What is the new wheel diameter of CASNUB 22W retrofitted?
(a) 1000mm
(b) 960mm
(c) 956mm
(d) 946mm

57. 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

58. What type of side bearers are fitted in CASNUB 22W bogie?
(a) CC type
(b) Roller type
(c) EM type
(d) None of these

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59. What type of pivot is used in a CASNUB 22W trolley?
(a) IRS type
(b) Spherical type
(c) Other type
(d) None

60. 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

61. What is the nominal lateral clearance between side frame& bolster in CASNUB22HS?
(a) 18mm
(b) 10mm
(c) 25mm
(d) 22mm

62. What is the nominal lateral clearance between side frame & bolster in CASNUB 22W, 22WM, 22NL, 22NLB?
(a) 16mm
(b) 11mm
(c) 18mm
(d) 20mm

63. What is the nominal longitudinal clearance between side frame & adopter of CANUB22W(M) bogie?
(a) 5mm
(b) 8mm
(c) 10mm
(d) 12mm

64. What is the nominal longitudinal clearance between side frame & adopter of CASNUB 22w (Retro)trolley
(a) 2mm
(b) 4mm
(c) 6mm
(d) Nil

65. What is the nominal lateral clearance between side frame & adopter of CASNUB 22NLB, 22HS bogie?
(a) 18mm
(b) 16mm
(c) 22mm
(d) 25mm

66. What is the standard inclination on wheel tread used in CASNUB bogie?
(a) 1in20
(b) 1in22
(c) 1in18
(d) 1 in25

67. What is the condemning wheel diameter in all CASNUB versions?
(a) 916mm
(b) 906mm
(c) 936mm
(d) 963mm

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68. What the condemning dimensions of narrow jaw/wide Adopter thrust shoulder?
(a) 0.4mm
(b) 0.6mm
(c) 0.7mm
(d) 0.9mm

69. What is the lateral clearance between side frame & Axle box/adopter CASNUB 22W,22W(M)
(a) 18mm
(b) 16mm
(c) 22mm
(d) 25mm

70. What is the condemning/wear limit of narrow/wide jaw adopter crown lugs?
(a) 2mm
(b) 4mm
(c) 6mm
(d) 8mm

71. What is the dimension of new wide jaw adopter crown lug?
(a) 155m
(b) 156mm
(c) 154mm
(d) 152mm

72. What is the dimension of new narrow jaw adopter crown lugs?
(a) 154.5mm
(b) 155.5mm
(c) 156.5mm
(d) 157.5mm

73. What is the wear limit of wide /narrow jaw adopter crown seat?
(a) 2.5mm
(b) 3.5mm
(c) 4.5mm
(d) 5.5mm

74. What is the dimension of new wide jaw adapter bore seat to crown seat?
(a) 46.5mm
(b) 47.5mm
(c) 48.5mm
(d) 49.5mm

75. What is the dimension of new narrow jaw adapter bore seat to crown seat?
(a) 25.2mm
(b) 26.2mm
(c) 28.5mm
(d) 27.5mm

76. What is the dimension of new modified wide jaw adapter bore seat to crown seat?
(a) 20.5mm
(b) 25.5mm
(c) 30.5mm
(d) 35.5mm

77. Worm limit of wide jaw adapter bore seat to crown seat is?
(a) 45mm
(b) 247mm
(c) 48mm
(d) 49mm

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78. Condemning limit of modified wide jaw adapter bore seat to crown seat is?
(a) 25mm
(b) 22mm
(c) 27mm
(d) 29mm

79. Condemning limit of narrow jaw adapter bore seat to crown seat is?
(a) 20mm
(b) 22.5mm
(c) 22.7mm
(d) 24.5mm

80. How many types of adapter are used in CASNUB trolley?
(a) 2
(b) 1
(c) **3**
(d) 4

81. The condemning size of brake block of goods stock is?
(a) 30mm
(b) 10mm
(c) 20mm
(d) 15mm

82. Free camber of 10 plated laminated spring of BOX type wagon is?
(a) 47+6/-0mm
(a) 49mm
(b) 52mm
(c) 58mm

83. Nominal free height of inner spring of CASNUB bogie except to HS is?
(a) 260mm
(b) 262mm
(c) 264mm
(d) 266mm

84. What is the nominal thickness of elastomeric pad of CASNUB bogie?
(a) 49mm
(b) 46mm
(c) 48mm
(d) 52mm

85. Condemning size of elastomeric pad for CASNUB bogie is?
(a) 44mm
(b) 43mm
(c) 42mm
(d) 40mm

86. Nominal dimension of side bearer rubber pad for CASNUB bogie is?
(a) 114mm
(b) 116mm
(c) 118mm
(d) 120mm

87. Condemning size of side bearer rubber pad for CASNUB bogie is?
(a) 111mm
(b) 110mm
(c) 109mm
(d) 108mm

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88. 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

89. New dimension of side frame anti – rotation lug for all CASNUB bogie is?
(a) 520mm
(b) 522mm
(c) 524mm
(d) 528mm

90. Which of the following is the maintenance manual of CASNUB bogie?
(a) G97
(b) G80
(c) G95
(d) G72

91. New pedestal crown for 22NL/NLB/HS CASNUB bogie is?
(a) 300mm
(b) 320mm
(c) 323mm
(d) 330mm

92. Condemning dimension of side frame anti rotation lug for all CASNUB bogies is?
(a)530mm
(b) 522mm
(c) 528mm
(d) 524mm

93. Wear limit of pedestal side for CASNUB bogie is?
(a) 1mm
(b) 2mm
(c) 4mm
(d) None of above

94. New dimension of all CASNUB bogie crown side is?
(a) 151mm
(b) 152mm
(c) 154mm
(d) 155mm

95. New dimension of 22W, 22W (M) CASNUB bogie pedestal side is?
(a) 100mm
(b) 105mm
(c) 110mm
(d) None of above

96. New dimension of 22NL/NLB/HS CASNUB bogie pedestal side is?
(a) 80mm
(b) 85mm
(c) 81mm
(d) 82mm

97. Wear limit of pedestal crown roof for CASNUB bogie is?
(a) 4mm
(b) 5mm
(c) 6mm
(d) 3mm

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98. New pedestal crown roof for 22W (M) CASNUB bogie is?
(a) 310mm
(b) 318mm
(c) 320mm
(d) 322mm

99. Distance between new pedestal jaws (long) of CASNUB bogie is?
(a) 230mm
(b) 232mm
(c) 234m
(d) 236mm

100. Wear limit of pedestal jaw (long) of 22NL/NLB/HS CASNUB bogie is?
(a) 2mm
(b) 3mm
(c) 4mm
(d) 5mm

101. Distance between new pedestal jaws (short) of 22NL/NLB/HS CASNUB bogie is?
(a) 182mm
(b) 186mm
(c) 188mm
(d) 190mm

102. New dimension of pedestal jaw CASNUB 22W, 22W (Retro) bogie is?
(a) 270mm
(b) 272mm
(c) 268mm
(d) 190mm

103. New dimension of pedestal jaw for CASNUB 22W (M) bogie is?
(a) 270mm
(b) 274mm
(c) 278mm
(d)290mm

104. Wear limit of crown sides for CASNUB bogie is?
(a) 4.0mm
(b) 3.0mm
(c) 2.0mm
(d) 5.0mm

105. New dimensions of bolster column inner gibs of all CASNUB bogies are?
(a) 144mm
(b) 136mm
(c) 138mm
(d) 132mm

106. Wear limit of bolster column inner gibs of all CASNUB bogie is?
(a)2.0mm
(b) 5.0mm
(c) 6.0mm
(d) 8.0mm

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107. New dimensions of over bolster land surface of all CASNUB bogie is?
(a) 444mm
(b) 446mm
(c) 448mm
(d) 450mm

108. New dimension of over rotation stop lugs of all CASNUB bogies is?
(a) 516mm
(b) 518mm
(c) 520mm
(d) 522mm

109. Wear limit of bolster land surface of all CASNUB bogie is?
(a) 2.0mm
(b) 3.0mm
(c) 5.0mm
(d) 7.0mm

110. Wear limit of bolster rotation stop lug of all CASNUB bogie is?
(a) 1.0mm
(b) 2.0mm
(c) 3.0mm
(d) 5.0mm

111. Nominal free height of sunbber spring of CASNUB bogie except 22 HS is?
(a) 260mm
(b) 270mm
(c) 282mm
(d) 294mm

112. Nominal free height of inner spring of CASNUB 22 HS bogie is?
(a) 261mm
(b) 252mm
(c) 243mm
(d) 246mm

113. Nominal free height of sunbber spring of CASNUB 22 HS bogie is?
(a) 291mm
(b) 294mm
(c) 296mm
(d) 293mm

114. New dimension of bolster column outer gibs of CASNUB bogie is?
(a) 224mm
(b) 234mm
(c) 244mm
(d) 246mm

115. New dimension of bolster column outer gibs of CASNUB 22Hs bogie is?
(a) 232mm
(b) 236mm
(c) 241mm
(d) 251mm

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116. Wear limit of bolster column outer gibs of CASNUB bogie is?
(a) 2.0mm
(b) 3.0m
(c) 5.0mm
(d) 6.0mm

117. New dimension of friction shoes wedge block of CASNUB bogie is?
(a) 60mm
(b) 62mm
(c) 63mm
(d) 61mm

118. Condemning limit of friction shoes wedge block of CASNUB bogie is?
(a) 54mm
(b) 56mm
(c) 58mm
(d) 8.0mm

119. 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

120. 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

121. Normal free height of outer spring of CASNUB bogie is except HS
(a) 260mm
(b) 262mm
(c) 264mm
(d) 266mm

122. 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

123. 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

124. During Brake application, air flows from?
(a) AR to BC
(b) BP to AR
(c) BP to BC
(d) CR to BC

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125. The en-route brake power percentage of CC goods train should be?
(a) 85%
(b) 75%
(c) 95%
(d) 90%

126. Single pipe system works on?
(a) BP pressure
(b) FP pressure
(c) BP&FP pressure
(d) None of the above

127. 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

128. What do you mean by SWTR?
(a) Single wagon test rubber
(b) Single wagon test rig
(c) Sliding wagon test ring
(d) None of the above

129. SAB is fitted on?
(a) End pull rod
(b) Main pull rod
(c) Control rod
(d) Dead equalizing lever

130. Auxiliary reservoir assists in?
(a) DV charging
(b) Charging of BP
(c) Sending air to BC
(d) Charging of CR

131. The en-route brake power percentage of End to End goods train should be ?
(a) 85%
(b) 75%
(c) 95%
(d) 90%

132. The en-route brake power percentage of PR goods train should be?
(a) 85%
(b) 75%
(c) 95%
(d) Not specified

133. What is the piston stroke of BVZC wagon?
(a) 50mm±10mm
(b) 70mm±10mm
(c) 32mm±10mm
(d) 90mm±10mm

134. What is the piston stroke of BOBR/BOBRN wagon in empty?
(a) 70±10mm
(b) 75±10mm
(c) 80±10mm
(d) 100±10mm

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135. 'A' dimension of the BOBRN wagon is?
(a) 29+2/-0mm
(b) 27+2/-0mm
(c) 33±2mm
(d) 25+-ss mm

136. What is colour of BPC of air brake CC?
(a) Red
(b) Pink
(c) Green
(d) Yellow

137. The ELB device indicator plate show?
(a) Yellow empty, black loaded
(b) Blue empty, black loaded
(c) Whit empty, black loaded
(d) Black empty, blue loaded

138. 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

139. 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

140. 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

141. After isolating DV, handle should be?
(a) Tightened with thread
(b) Kept horizontal and tightened with wire
(c) Tightened with wire
(d) Opened

142. 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

143. 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

144. What is the minimum distance being maintained between adjacent two tracks for intensive examination?
(a) At least3meters
(b) At least 3.5 meters
(c) At least 4.0 meters

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(d) At least 2.0 m

145. 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

146. Number of brake blocks in one BOXN wagon is?
(a) 4
(b) **8**
(c) 12
(d) 16

147. 'A' dimension in BOXN wagon is?
(a) 70±2/0mm
(b) 172±3mm
(c) 175±4mm
(d) 175±1mm

148. D.V is directly attached with?
(a) Brake cylinder
(b) Brake pipe
(c) AR
(d) CPB

149. The diameter of air brake cylinder BOXN wagon is?
(a) 300mm
(b) 355mm
(c) 360mm
(d) 315mm

150. The diameter of air brake cylinder in BVZC (wagon) is?
(a) 300mm
(b) 295mm
(c) 305mm
(d) 315mm

151. The capacity of Auxiliary Reservoir in an air brake wagon except Brake Van is?
(a) 200Litre
(b) 100Litre
(c) 300Litre
(d) 150Litre

152. 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

153. Minimum permissible dimension 'e' in SAB on goods stock, while leaving the yard is?
(a) 555mm
(b) 575mm
(c) 565mm
(d) 580mm

154. What is the colour code of the distributor valve of air brake goods stock?
(a) Yellow
(b) Black
(c) Green

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(d) White

155. Control rod diameter of an air brake wagon is?
(a) 30mm
(b) 32mm
(c) 38mm
(d) 40mm

156. Piston stroke of BOXN wagon in empty condition is?
(a) 85±10mm
(b) 70±15mm
(c) 75±5mm
(d) 80±10mm

157. Piston stroke of BOXN wagon in loaded condition is?
(a) 140±15mm
(b) 130±10mm
(c) 120±15mm
(d) 125±15mm

158. Piston stroke in empty condition of BOBYN wagon is?
(a) 90±10mm
(b) 100±5mm
(c) 100±10mm
(d) 90±10/5mm

159. Piston stroke in loaded condition of BOBYN wagon is?
(a) 135±5m
(b) 135±10mm
(c) 135±20mm
(d) 110±10mm

160. What is the capacity of control reservoir in goods train?
(a) 4Lit
(b) 6 Lit
(c) 8Lit
(d) 10Lit

161. What is the diameter of side operated hand brake wheel for BOXN wagon?
(a) 630mm
(b) 610mm
(c) 620mm
(d) 600mm

162. 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

163. The colour of brake pipe in twin pipe brake system is?
(a) Black
(b) Yellow
(c) Green
(d) White

164. What should be the brake pipe pressure in engine?
(a) 4.8kg /cm^2
(b) 4.7kg/cm^2
(c) 5.0kg/cm^2

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(d) 6.0kg/cm^2

165. 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

166. 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

In single pipe system the time taken in releasing of the wagon brake is?
(a) 60sec
(b) 120sec
(c) 210sec
(d) 90sec

167. Distance between the control rod head and the barrel of SAB is named as?
(a) 'E' dimensions
(b) 'C' dimensions
(c) 'A' dimensions
(d) 'D' dimensions

168. In twin pipe system the Auxiliary Reservoir pressure should be?
(a) 6.0kg/cm^2
(b) 4.8kg/cm^2
(c) 5.0kg/cm^2
(d) 6.5kg/cm^2

169. The brake power of CC rake from nodal point is?
(a) 90%
(b) 100%
(c) 85%
(d) 75%

170. 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

171. The of air pressure in control reservoir of twin pipe system is?
(a) 3.8kg/cm^2
(b) 6.0kg/cm^2
(c) 5.0kg/cm^2
(d) 4.8kg/cm^2

172. 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

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173. Which type trolley of is used in BLC wagon?
(a) UIC trolley
(b) Cast steel type of bogie LCCF20
(c) IRS trolley
(d) Diamond frame trolley

174. For automatic locking &for lifting of automatic twist lock how much force is Kg required, respectively?
(a) 600&1000kg
(b) 800&1200kg
(c) 1000&500kg
(d) 500 &1350kg

175. 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

176. 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'

177. Name the type of coupling used in BLC wagon?
(a) CBC&SLD
(b) HTCBC
(c) Screw coupling
(d) Slackness drew bars (SLD)

178. Pay load of BTPN tank wagon is?
(a) 58.88tons
(b) 54.28tons
(c) 55.80tons
(d) 52.3 tons

179. Axle load of BTPN tank wagon is?
(a) 20.32tons
(b) 22.35tons
(c) 21.35 tons
(d) 25.22tons

180. As per RDSO standard what shall be the Max. Allowed speed of BFKI?
(a) 75km/h
(b) 80km/h
(c) 100km/h
(d) 110km/h

181. What is the material specification of BLC wagon trolley?
(a) Cast steel
(b) Low cast steel
(c) Steel
(d) Micro steel

182. At the time of load distribution what percentage of load is coming on the center pivot?
(a) 10%
(b) 15%

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(c) 20%
(d) 25%

183. What shall be maximum length of container platform in BLC wagon?
(a) 30feet
(b) 28feet
(c) 29feet
(d) 32 feet

184. The standard height of platform for BLC wagon from Rail level is?
(a) 1010mm
(b) 1015mm
(c) 1009mm
(d) 1100mm

185. The axle load capacity of BLC wagon is?
(a) 20.10ton.
(b) 20.32ton.
(c) 21.10ton.
(d) 23.10ton.

186. Tare weight of A-car of BLC wagon is?
(a) 21.20ton.
(b) 19.10ton.
(c) 19.80ton.
(d) 20.22ton.

187. MaximumheightofsideframefromRaillevelofcontainerbogietypeLCCF20 trolley is?
(a) 851mm
(b) 715mm
(c) 932mm
(d) 786mm

188. In BLC wagon, width over sole bar at center line wagon is?
(a) 2200mm
(b) 2100mm
(c) 2150mm
(d) 2180mm

189. In place of empty load box what devise is used in BLC wagon?
(a) BSD
(b) LSD
(c) SDF
(d) SAB

190. Tare weight of B-car of BLC wagon is?
(a) 18.10ton.
(b) 19.10ton.
(c) 19.80ton.
(d) 20.20ton.

191. In BLC wagon, height of slackness drawbar system from Rail level is?
(a) 890mm
(b) 848mm
(c) 845mm
(d) 910mm

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

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

193. Distance between bogie centers of BLC wagon is?
(a) 9678mm
(b) 9687mm
(c) 9765mm
(d) 9675mm

194. Rake carrying capacity of the BLC is?
(a) 40 wagons
(b) 45 wagons
(c) 40 wagons
(d) 48 wagons

195. Which devise have been fitted on BLC wagons to function in lieu of ELB?
(a) Automatic load sensing Devise
(b) Automatic load box Devise
(c) Automatic load sensor
(d) None of these

196. What is the operational speed of BLC wagon rake?
(a) 100 kmph
(b) 110kmph
(c) 75kmph
(d) 120 kmph

197. One modular unit of BLC rake comprises how many CAR 'B' wagons?
(a) Five
(b) Two
(c) Three
(d) One

198. 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

199. 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

200. Condemning limit of BLC wheel set is?
(a) 900mm
(b) 800mm
(c) 670mm
(d) 780mm

201. 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

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(d) Next TXR point

202. 'A' category depot will issue BPC of CC Rake valid upto km?
(a) 7500km
(b) 7000km
(c) 6000km
(d) 6500km

203. 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

204. In air brake stock, BPC become invalid, if the rake is stabled in any examination yard for more than?
(a) 24hours
(b) 36 hours
(c) 48hours
(d) 12 hours

205. As per RPC -4, whenever the lie-over is more thanhours 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

206. For rakes maintained by 'A' category CC bases, BPC is valid for?
(a) 4500 kmsor15days
(b) 6000 kms or 20days
(c) 7500 kms or 35days
(d) 6000 kms or 15 days

207. Match colour of BPC issued with the stock?

Colour	Stock
A.Pink	1. Air brake stock
B.Light Green	2.VacuumBrake
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

208. For closed circuit air brake rake, Rake integrity, as listed in the BPC be are allowedto be replaced by good examined wagon in the entire run between two PMEs?
(a) 4wagons
(b) 6wagons
(c) 3wagons
(d) 2wagons

209. How much fading of brake power is permissible in air brake trains from originating Station to destination?
(a) 10%
(b) Nil
(c) 20%
(d) 5%

210. What are the colors recommended for intensive brake power certificate for end toend running air brake (Goods stock)?

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(a) Green
(b) Pink
(c) Red
(d) Blue

211. What are the colors recommended for brake power certificate for close circuit airbrake rake (Goods stock)?
(a) Yellow
(b) Pink
(c) Green
(d) White

212. Piston stroke of BMBC coach is?
(a) 28mm
(b) 32mm
(c) 36mm
(d) 38mm

213. 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

214. 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.

215. 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

216. What shall be tolerance permitted between door center line to door hinge in a new wagon?
(a) +2/-1mm
(b) +2.5/-1.5mm
(c) ±1.5mm
(d) ±2.5mm

217. The BOXN bogie is designed for an axle load of?
(a) 22.1t
(b) 20.3t
(c) 21.9t
(d) 16.8t

218. The primary lock clearance of BOBR door is?
(a) 3mm
(b) 5mm
(c) 7mm
(d) 4mm

219. At the originating point, minimum brake power of premium end-to-end rake is?
(a) 85%
(b) 95%
(c) 90%

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(d) 98%

220. The colour of brake power certificate for premium end-to-end rake is?
(a) Green
(b) White
(c) Pink
(d) Yellow

221. The BPC of ballast train is valid for?
(a) 3days
(b) 7days
(c) 15days
(d) 30days

222. Diameter of brake pipe and feed pipe in a goods train is?
(a) 28mm
(b) 34mm
(c) 32mm
(d) 36mm

223. 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

224. What type of center buffer coupler used in Indian railway?
(a) ARPT type
(b) AARP type
(c) AAR type
(d) ARPA type

225. 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

226. The yield strength of knuckle of material AAR-M-201 Grade 'C' (STD) is?
(a) 180t
(b) 171t
(c) 142 t
(d) 132t

227. The yield strength of knuckle of material AAR-M-201 Grade 'E' (HT) is?
(a) 180t
(b) 171 t
(c) 142t
(d) 132t

228. The yield strength of coupler body of AAR Grade 'C' (STD) is?
(a) 180 t
(b) 169t
(c) 179t
(d) 159t

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229. The yield strength of coupler body of material AAR-M-211 Grade 'E' (HT) is?
(a) 180t
(b) 200 t
(c) 205t
(d) 211t

230. 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

231. The working strength of center buffer coupler is?
(a) 100t
(b) 120t
(c) 140t
(d) 180t

232. Which among the following buffer gear assemblies absorbs the buffer impact?
(a) Buffer Spring
(b) Plunger
(c) Buffer Casting
(d) Spindle

233. Material AAR-m-201&211 Grade 'E' coupler is called as?
(a) High Tensile
(b) Non-Tensile
(c) Standard
(d) None of the above

234. Clevis and Clevis pin are the part of?
(a) Alliance-II coupler
(b) Non –transition coupler
(c) Transition coupler
(d) Draw bar

235. 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

236. 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

237. Standard buffer projection from Head stock is?
(a) 650mm
(b) 635mm
(c) 620mm
(d) 660mm

238. Min permissible buffer projection from Head stock is?
(a) 635mm

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(b) 600mm
(c) 590mm
(d) 584mm

239. Standard diameter of knuckle pivot pin is?
(a) 50mm
(b) 43mm
(c) 41.28mm
(d) 34mm

240. Permissible diameter of knuckle pivot pin is?
(a) 41mm
(b) 38mm
(c) 39.5mm
(d) 40.5mm

241. Standard diameter of Clevis pin is?
(a) 35mm
(b) 38mm
(c) 39mm
(d) 37mm

242. Permissible diameter of clevis pin is?
(a) 35.8mm
(b) 38.5mm
(c) 36.5mm
(d) 37mm

243. What is the length over Headstock of the BOXN wagon?
(a) 9774 mm **(b) 9784 mm**
(c) 9777 mm (d) 9848 mm

244. Tare weight of the BOXN wagon is -
(a) 22.37 tons. **(b) 22.47 tons.**
(c) 22.91 tons. (d) 22.90 tons.

245. What is the length over couplers of the BOXN wagon?
(a) 10713 mm **(b) 10813 mm**
(c) 11002 mm (d) 10100 mm

246. What is the length over couplers of the BCN wagon?
(a) 15400 mm (b) 15443 mm
(c) 15429 mm (d) 15562 mm

247. Gross load of the BOXN wagon is -
(a) 78.92 t **(b) 81.28 T**
(c) 86.78 t (d) 88.81 t

248. In accident manual, train parting is under –
(a) **J class** (b) K class
(c) C class (d) P class

249. Newly built BOXN wagon first POH periodicity is –
(a) 4.5 year (b) 5.5 year
(c)6.0 year (d) 6.5 year

250. Newly built BLC containers wagon first POH periodicity is –
(a) 4.5 year (b) 2.0 year
(c) 6.0 year (d) 3.5 year

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251. Board gauge track gauge is –
(a) 1676 mm (b) 1667 mm
(c) 1698 mm (d) 1500 mm

252. POH of BG brake van is –
(a) 3.5 year **(b) 2.0 year**
(c) 2.5 year (d) 3.0 year

253. Torque value of Cartridge type roller bearing cap screw is –
(a) 42.0 kg-m. **(b) 40.0 kg-m.**
(c) 38.0 kg-m. (d) 44.0 kg-m.

254. C- class ODC shall be moved during –
(a) **Day light** (b) Day-night time
(c) Only night time (d) None of the above

255. In air brake system, the thread joints are tightened with which type of tape?
(a) Cello tape **(b) Teflon tape**
(c) Paper tape (d) None of the above

256. Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogies and air brake system, What RDSO's technical pamphlet is used?
(a) G-90 **(b) G-70**
(c) G-97 (d) WT- 77

257. Instructions for inspection and maintenance of CASNUB bogies, What RDSO's technical pamphlet is used?
(a) G-97 (b) G-86
(c) G-90 **(d) G- 95**

258. As per new wagon numbering scheme, first two digits will indicate-
(a) Owning Railway **(b) Type of wagon**
(c) Year of manufacture (d) Cheek digit

259. What do you mean by PME?
(a) Pre medical examination
(b) Pre maintenance examination
(c) Periodical maintenance examination
(d) Power mechanical equipment

260. What do you mean by CC rakes?
(a) Content contact pad. **(b) Close circuit rake**
(c) Complete coal rake (d) All the above

261. The minimum permissible buffer height above rail line to center of H/ Stock under loaded condition is -
(a) 1105 mm (b) 1145 mm
(c) 1115 mm **(d) 1030 mm**

262. Standard diameter of knuckle pivot pin is -
(a) 50 mm (b) 43 mm
(c) 41.28 mm (d) 34 mm

263. Standard dimension of shank wear plate for AAR coupler is -
(a) 12 mm (b) 8 mm
(c) 6 mm (d) 14 mm

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

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

265. The maximum permissible free slack in the draft gear in service is –
(a) 35 mm (b) 30 mm
(c) 25 mm (d) 20 mm

266. No. of CBC gauge are –
(a) 5 **(b) 8**
(c) 12 (d) 2

267. The high capacity draft gears are -
(a) Mark -20 & RF-401 **(b) Mark 50 & RF361**
(c) CF 21& RF-600 (d) DF 39 & RF-21

268. To Adjust buffer height for 930 mm wheel diameter on BCN wagon except CASNUB 22 W, packing piece used is –
(a) 38 mm **(b) 37 mm**
(c) 33 mm (d) 32 mm

269. What type of center buffer coupler used in Indian Railway?
(a) APRT type (b) AARP type
(c) AAR type (d) ARPA type

270. The working strength of center buffer coupler is -
(a) 100 t **(b) 120 t** (c) 140 t (d) 180 t

271. The tractive effort of the Loco to the individual wagons is transmitted with the help of -
(a) CBC **(b) Draw gear**
(c) Knuckle (d) Side frame

272. Clevis and Clevis pin are the part of –
(a) Alliance- II coupler (b) Non- Transition coupler
(c) Transition coupler (d) Draw bar

273. Standard diameters of wheel on BOXN Wagon is -
(a) 1010 & 900 mm **(b) 1000 & 906 mm**
(c) 950 & 906 mm (d) 906 & 813 mm

274. The axle load of BOXN, BCN, BRN, BOBR, BTPN wagon is -
(a) 22.9 t (b) 20.32 t
(c) 16.6 t (d) 12.2 t

275. The wheel gauge should be measured on –
(a) **Off load condition** (b) Loaded wagon
(c) Both condition (d) Empty wagon

276. The lowest wheel dia permitted by workshop for BOXN wagon is -
(a) 919 mm (b) 906 mm
(c) 925 mm (d) 860 mm

277. In CTRB the grease use per Axle box is -
(a) 455 ±30 gms (b) 490±15 gms
(c) 500±35 gms (d) 550±20 gms

278. The condemning diameter of BTPN wheel is -
(a) 813 mm (b) 990 mm
(c) 906 mm (d) 860 mm

279. Permissible maximum flat surface on tread on other BG wagon are –

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

280. What is an integrated portion of the axle?
(a) Cap (b) Roller bearing
(c) Journal (d) None of the above

281. Standard dimension 'e' in SAB on Goods stock is -
(a)550 to 570 mm **(b)555 to 575 mm**
(c)570 to 580 mm (d)555 to 565 mm

282. The colour coding of distributor valve of air brake goods stock is –
(a) Yellow **(b) Black**
(c) Green (d) White

283. In air brake end-to end rakes, After intensive examination validity of BPC remain up to the –
(a) Next station (b) Loading point
(c) Destination point (d) 72 Hours

284. Control rod diameter of air brake wagon is –
(a) 30 mm **(b) 32 mm**
(c) 38 mm (d) 40 mm

285. Piston stroke of BOXN wagon in empty conditions is -
(a) 85±10 mm (b) 70±15 mm
(c) 75±5 mm (d) 80±10 mm

286. Piston stroke of BOXN wagon in loaded conditions is -
(a) 140±15 mm **(b) 130±10 mm**
(c) 120±15 mm (d) 125±15 mm

287. In air brake stock, BPC becomes invalid, if the rake is stabled in any examination yard for more than-
(a) **24 hours** (b) 36 hours
(c) 48 hours (d) 12 hours

288. Dirt collector of a wagon should be cleaned within-
(a) **At the time of ROH** (b) 2 month
(c) 6 month (d) 3 month

289. What is the capacity of control reservoir in goods train?
(a) 4 Lit. **(b) 6 Lit**
(c) 8 Lit. (d) 10 Lit.

290. Permissible variation in new wheel tread diameter on the same axle on BG bogie wagon is -
(a) 0.45 mm **(b) 0.5 mm**
(c) 0.35 mm (d) 0.3 mm

291. Permissible variation in wheel tread diameter on the same trolley of BG wagon while changing the wheel is
(a) 10 mm **(b) 13 mm**
(c) 12 mm (d) 15 mm

292. Permissible variation in wheel tread diameter on the same wagon of BG while changing the wheel is -
(a) 13 mm **(b) 25 mm**
(c) 30 mm (d) 28 mm

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293. The composite Brake block in yard for air Bk. train should be changed when thickness is
(a) 10.0 mm (b) 15.0 mm
(c) 20.0 mm (d) 25.0 mm

294. Of which brake van the quick coupling is the part-
(a) BVZT (b) BVZX
(c) BVZC (d) BVZM

295. The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than –
(a) 4.5kg/ Cm^2 (b) 3.7 kg/ Cm^2
(c) 4.8 kg/ Cm^2 (d) 5.8kg/ Cm^2

296. When we release manually KE type DV, the air pressure release form -
(a) CR & AR (b) BC & AR
(c) CR & BC (d) AR & DV

297. The diameter of branch pipe of BP to DV for wagon is –
(a) 25 mm **(b) 20 mm**
(c) 13 mm (d) 22 mm

298. 'A' dimension in Boxn wagon is -
(a) $70\pm^{2}_{0}$ mm (b) 172±3 mm
(c) 175±4 mm (d) 175+1mm

299. For testing Air pressure locomotive the test plate hole diameter is-
(a) 8.2 mm **(b) 7.5 mm**
(c) 9.5 mm (d) 10 mm

300. The diameter of air brake cylinder BOXN wagon is-
(a) 300 mm **(b) 355 mm**
(c) 360 mm (d) 315 mm

301. The diameter of air bake cylinder in BVZC (Wagon) is -
(a) 300 mm (b) 295 mm
(c) 305 mm (d) 315 mm

302. The capacity of Auxiliary Reservoir (wagon) in air brake except Bk.Van is-
(a) 200 litre **(b) 100 litre**
(c) 300 litre (d) 150 litre

303. In Single pipe system the time taken in releasing of the wagon brake is-
(a) **60 Sec.** (b) 120 Sec.
(c) 210 Sec. (d) 90 Sec.

304. Distance between the control rod head and the barrel of SAB is named as -
(a) 'E' dimensions (b) 'C' dimension
(c) 'A' dimension (d) "d" dimension

305. The capacity of compressor machine for air brake testing of rake is –
(a) 12-15 Kg/ Cm^2 **(b) 8-10 Kg/ Cm^2**
(c) 7-12 Kg/ Cm^2 (d) 7-8 Kg/ Cm^2

306. At the originating point, minimum brake power of premium end-to-end rake is -
(a) 85% (b) 95%
(c) 90% (d) 98%

307. The brake power of CC rake from nodal point is –
(a) 90% **(b) 100%**
(d) 85% (d) 75%

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

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

309. What is the function of DC (Dirt collector)?
(a) Collect dirt (b) Collect air
(c) Clean air (d) Clean CR

310. How much pressure should drop in a minute after putting a test plate in locomotive?
(a) 0.8 Kg/ Cm^2 **(b) 1.0 Kg/ Cm^2**
(c) 1.2 Kg/ Cm^2 (d) 1.5 Kg/ Cm^2

311. The colour for brake power certificate for Premium end-to-end rake is-
(a) **Green** (b) White
(c) Pink (d) Yellow

312. For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm^2 is -
(a) 30-40 sec (b) 40-50 sec
(c) 45-60 sec (d) 50-75 sec

313. What is the piston stroke of BVZC wagons?
(a) 50±10 mm **(b) 70±10 mm**
(c) 85±10 mm (d) 90± 5 mm

314. What is the empty piston stroke of BOBR/BOBRN wagon is -
(a) 70±10 mm (b) 75±10 mm
(c) 80±10 mm **(d) 100±10 mm**

315. 'A' dimension of the BOBRN wagon is -
(a) $29\pm2_{\ 0}$ mm **(b) $27\pm 2_{\ 0}$ mm**
(c) 33± 2 mm (d) 25±5 mm

316. What is the colour of BPC of air brake CC rake?
(a) Red (b) Pink
(c) Green **(d) Yellow**

317. Control rod of SAB when rotated for one round, control rod head moves by a distance of
(a) 6.0 mm (b) 4.0 mm
(c) 2.0 mm (d) 1.0 mm

318. 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

319. SAB adjust clearance between -
(a) Wheel and brake block
(b) Tie Rod and Brake block
(c) Anchor pin to control rod (d) None of the above

320. The M.R. pressure of engine should be-
(a) 6.0 to 8.0 Kg/ Cm^2 **(b) 8.0 to 10.0 Kg/ Cm^2**
(c) 10.0 to 12.0 Kg/ Cm^2 (d) 12.0 to 15.0 Kg/ Cm^2

321. What do you mean of SWTR?
(a) Single wagon test rubber **(b) Single wagon test rig**
(c) Sliding wagon test ring (d) None of the above

322. If C3W type DV is manually released, pressure is released from -
(a) AR (b) Control reservoir
(c) Brake cylinder **(d) All the above**

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323. To uncouple BP or FP air hose it is essential to
(a) Open adjacent angle cock
(b) Close adjacent angle cocks
(c) Close supply of air from loco
(d) None of the above

324. The Empty Load Device indicator plate shows -
(a) Yellow empty, black loaded
(b) Blue empty, black loaded
(c) White empty, black loaded
(d) black empty, blue loaded

325. The first step of releasing brake binding in conventional A/B system is to -
(a) Open vent plug of BC
(b) Rotate SAB
(c) Take out pin of SAB
(d) Isolate DV & release manually.

326. The Type of dirt collector, used in wagon is -
(a) 2-way
(b) 3-way
(c) Branch pipe of BP to DV
(d) In BP

327. The function of Return spring provided in air brake cylinder is -
(a) To push the spring out side the piston
(b) To push the piston inside the cylinder
(c) To push the deed lever
(d) To push the control rod

328. Standard thickness of UIC/CASNUB bogies composite brake block is-
(a) 60 mm
(b) 45 mm
(c) 55 mm
(d) 58 mm

329. How many side frame fitted in CASNUB trolley / bogie?
(a) 2
(b) 1
(c) 3
(d) Nil

330. What is the axle load of CASNUB trolley?
(a) 19.2 ton
(b) 22.9 ton
(c) 20.3 ton.
(d) 20.9 ton

331. What is the new wheel diameter CASNUB 22 w (Retrofitted)?
(a) 1000 mm
(b) 960 mm
(c) 956 mm
(d) 946 mm

332. What type of pivot used in CASNUB 22WM, 22NL and other type of CASNUB trolley?
(a) IRS type
(b) Spherical type
(c) other type
(d)

333. What is the nominal leteral clearance between side frame & axle box/adopter Casnub 22NL, 22NLB, 22HS bogie?
(a) 18 mm
(b) 16 mm
(c) 22 mm
(d) 25 mm

334. What is the standard inclination on wheel tread?
(a) 1 in 20
(b) 1 in 22
(c) 1 in 18
(d) 1 in 25

335. How many types of adopters used in CASNUB trolley?
(a) 2
(b) 1
(c) 3
(d) 4

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336. Condemning size of elastomeric pad for Casnub bogie is -
(a) 44 mm (b) 43 mm
(c) 42 mm (d) 40 mm

337. Nominal dimension of side bearer rubber pad for Casnub bogie is -
(a) 114 mm (b) 116 mm
(c) 118 mm (d) 120 mm

338. Condemning size of side bearer rubber pad for Casnub bogie is -
(a) 111 mm (b) 110 mm
(c) 109 mm (d) 108 mm

339. What type of side bearers fitted in CASNUB 22HS trolley?
(a) Metal CC type
(b) Spring loaded CC type side bearer & PU type
(c) Roller type
(d) none of the above

340. Which types of steel are used in side frame column friction plates of Casnub bogie?
(a) Mild steel (b) Carbon steel
(c) Silico manganese steel (d) None of the above

341. The clearance between pins and bushes should not exceed
(a) 1.0 m (b) 0.5 mm
(c) 1.5 mm (d) None of the above

342. 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

343. During rolling out examination, it is seen that -
(a) Flat place on tyre
(b) Smoke is coming from axle box
(c) **No brake binding** (d) Broken spring

344. After RDSO Recommendation, What material in used BVG brake van in place of wood dust bag?
(a) **Glass wool** (b) Cottonwood
(c) Steel wood (d) None of the above

345. Broad gauge roller bearing radial clearance is –
(a) 123 to .132 mm (b) 0.132 to 0.145 mm
(c) 0.145 to 0.19 mm (d) 0.19 to 0.25 mm

346. C- class ODC shall be moved during –
(a) **Day light** (b) Day-night time
(c) Only night time (d) None of the above

347. What type of coupler used in brake van match truck (BVM)?
(a) Screw coupling **(b) CBC**
(c) Non- transition (d) None of the above

348. In air brake system, the thread joints are tightened with which type of tape?
(a) Cello tape **(b) Teflon tape**
(c) Paper tape (d) None of the above

349. The 'E' type vacuum cylinder of 457mm diameter is used in -
(a) BOBR wagon (b) Box wagon

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(c) Bk. van **(d) Four Wheeled wagon**

350. Instructions for maintenance and operation of BOX wagon, What RDSO's technical pamphlet is used?
(a) G-71 (b) G-73
(c) G-18 **(d) G-16**

351. What RDSO's technical pamphlet is used, for maintenance manual of Alliance-II coupler?
(a) G-45H (b) G-78
(c) G-62 (d) G-40

352. Instructions for inspection and maintenance of BOXN wagon fitted with CASNUB bogiesand twin pipe air brake system, What RDSO's technical pamphlet is used?
(a) G-90 **(b) G-70**
(c) G-97 (d) WT- 77

353. Instructions for inspection and maintenance of BOBR wagon, What RDSO's technical pamphlet is used?
(a) G-73 (b) G-78
(c) G-97 (d) G- 16

354. Instructions for inspection and maintenance of CASNUB bogies, What RDSO's technical pamphlet is used?
(a) G-97 (b) G-86
(c) G-90 **(d) G- 95**

355. Instructions for inspection and maintenance of Air brake, What RDSO's technical pamphlet is used?
(a) G-97 (b) G-81
(c) G-73 (d) G- 71

356. As per Railway Board, In effective percentage of wagon in open line is –
(a) 3.5% **(b) 2.5%**
(c) 4.0% (d) 10%

357. 'A' category depot will issue BPC of CC Rake valid up to Km –
(a) 4500 Km (b) 5000 Km
(c) 6000 Km (d) 6500 Km

358. Depot, other then 'A' category will issue BPC of CC rake valid up to Km –
(a) 4500 Km (b) 5000 Km
(c) 6000km (d) 6500 Km

359. what time relaxation of period has been given to a loaded BOX wagon for returning for POH-
(a) After 15 days **(b) After 30 days**
(c) Before 30 days (d) before 15 days

360. The mini rake will have composition of minimum –
(a) 10 wagon **(b) 20 wagon**
(c) 25 wagon (d) 30 wagon

361. The free time for loading/unloading of mini rake shall be –
(a) 6 Hours (b) 8 Hours
(c) 5 Hours (d) 2 Hours

362. The mini rake scheme will be applicable only to –
(a) **Covered wagon** (b) Open wagon
(c) Tank wagon (d) Both of this

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363. As per new wagon numbering scheme, first two digits will indicate-
(a) Owning Railway **(b) Type of wagon**
(c) Year of manufacture (d) Cheek digit

364. what time relaxation of period has been given to a empty BOX wagon for returning for POH-
(a) Before 15 days (b) After 30 days
(c) Before 30 days (d) before 15 days

365. What do you mean by PME?
(a) Pre medical examination
(b) Pre maintenance examination
(c) Periodical maintenance examination
(d) Power mechanical equipment

366. What do you mean by CC rakes?
(a) Content contact pad. **(b) Close circuit rake**
(c) Complete coal rake (d) Both of this

367. The minimum permissible buffer height above rail line to center of Head Stock under loaded condition is -
(a) 1105 mm (b) 1145 mm
(c) 1115 mm **(d) 1030 mm**

368. Standard buffer projection from Headstock is -
(a) 650 mm **(b) 635 mm**
(c) 620 mm (d) 660 mm

369. Minimum Permissible buffer projection from Headstock is -
(a) 635 mm (b) 605 mm
(c) 590 mm **(d) 584 mm**

370. Standard diameter of knuckle pivot pin is -
(a) 50 mm (b) 43 mm
(c) 41.28 mm (d) 34 mm

371. Permissible diameter of knuckle pivot pin is -
(a) 41 mm (b) 38.5 mm
(c) 39.5 mm (d) 40.5 mm

372. Standard diameter of Clevis pin is -
(a) 35 mm **(b) 38 mm**
(c) 39 mm (d) 37 mm

373. Permissible diameter of Clevis pin is -
(a) 35.8 mm (b) 38.5 mm
(c) 36.5 mm (d) 37 mm

374. Standard dimension of shank wear plate for AAR coupler is -
(a) 12 mm (b) 8 mm
(c) 6 mm (d) 14 mm

375. Standard dimension of distance between the nose of Knuckle and guard arm is -
(a) 140 mm (b) 150 mm
(c) 127 mm (d) 12 mm

376. Wear limit of distance between the nose of Knuckle and guard arm is -
(a) 140 mm (b) 155 mm
(c) 125 mm **(d) 130 mm**

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377. For goods train, max. Buffer height from rail level is -
(a) 1105 mm (b) 1115 mm
(c) 1015 mm (d) 1100 mm

378. The maximum permissible free slack in the draft gear in service is –
(a) 35 mm (b) 30 mm
(c) 25 mm (d) 20 mm

379. No. of CBC gauge are –
(a) 5 **(b) 8**
(c) 12 (d) 2

380. For short case, what shall be the max buffer projection from the Headstock on BG wagon?
(a) 480 mm **(b) 456 mm**
(c) 460 mm (d) 510mm

381. For short case, what shall be the min. buffer projection from the Headstock on BG wagon?
(a) 420 mm (b) 440 mm
(c) 410 mm **(d) 406mm**

382. What is the maximum Permissible wears in Draw Bars shackle pinhole?
(a) 5.23 mm **(b) 6.35 mm**
(c) 7.21 mm (d) 6.69mm

383. 2.17 What is the maximum Permissible wear in draw Bars cotter pin hole?
(a) 10.7 mm (b) 12.3 mm
(c) 12.7 mm (d)13.1mm

384. What is the weakest link of the center buffer coupler?
(a) **Knuckle** (b) Draft gear
(c) Lock (d) Yoke pin

385. The high capacity draft gears is -
(a) Mark -20 **(b) Mark 50**
(c) CF 21 (d) DF 39

386. The high capacity draft gears is -
(a) RF361 (b) RF-401
(c) RF-600 (d) RF-21

387. To Adjust buffer height for 930 mm wheel diameter on BCN wagon except CASNUB22 W, packing piece used is –
(a) 38 mm **(b) 37 mm**
(c) 33 mm (d) 32 mm

388. What type of center buffer coupler used in Indian Railway?
(a) APRT type (b) AARP type
(c) AAR type (d) ARPA type

389. 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

390. The working strength of center buffer coupler is -
(a) 100 t **(b) 120 t**
(c) 140 t (d) 180 t

391. The diameter of knuckle pivot pin is –
(a) 41.28 mm (b) 38.0 mm
(c) 37.0 mm (d) 35.0 mm

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392. Draft gear, the pack with 11 Nos of rubber pads and 10 Nos of spacer plates,when assembled in the housing with follower shall not be less then –
(a) 638 mm **(b) 632 mm**
(c) 660 mm (d) 620 mm

393. The conventional screw coupling has a working load of –
(a) 2.9 t **(b) 22.5 t**
(c) 24.3 t (d) 20.3 t

394. The working strength of center buffer coupler is –
(a) 180 t (b) 160 t
(c) 120 t (d) 80 t

395. The working strength of Alliance –II coupler is -
(a) 100 t (b) 80 t
(c) 70 t **(d) 54 t**

396. Which among the buffer gear assembly absorbing the buffer impact?
(a) **Buffer spring** (b) Plunger
(c) Buffer casting (d) Spindle

397. The tractive effort of the Loco to the individual wagons is transmitted with the help of -
(a) CBC **(b) Draw gear**
(c) Knuckle (d) Side frame

398. Material AAR –M- 201 & 211 Grade 'E' coupler is called as –
(a) **High tensile** (b) Non- Tensile
(c) Standard (d) None of the above

399. Clevis and Clevis pin are the part of –
(a) Alliance- II coupler (b) Non- Transition coupler
(c) Transition coupler (d) Draw bar

400. Full form of WILD
(a) Wheel Impact Load Detector
(b) Wheel Inline Load Detector
(c) Wheel Impact Lie Detector
(d) None of the above

401. Total no. of channels comprising in WILD
(a) 34 (b)32
(c) 36 (d) 38

402. Total no. of channels used for detection of impact load on WILD
(a) 34 (b)32
(c) 36 (d) 38

403. Total no. of channels used for activation of system on WILD
(a) 2 (b)4
(c) 6 (d) None

404. WILD can detect defect wheels of diameter ranging
(a) 770mm-1100mm (b) 770mm-1200mm
(c) 870mm-1100mm (d) None of the above

405. WILD will work effectively in the speed range of
(a) **30kmph-160kmph** (b) 15kmph-150kmph
(c) 15kmph-120kmph (d) None of the above

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406. In WILD, to detect impact load each channel comprises no. of reset type strain gauges fixed on rail
(a) 2 **(b)4**
(c) 6 (d) None

407. Maximum capability of WILD functioning of trains consist upto how many vehicles
(a) 100 (b)58
(c) 59 (d) 61

408. WILD should be installed on straight and level track of minimum length including approach to the site
(a) **250mts** (b)100mts
(c) 100mts (d) 350mts

409. In WILD, there should be no fish plated joint within _____on either side of the instrumented portion of the track
(a) 13m (b)15m
(c) 23m (d) 35m

410. The position of tank wagons on the mixed train must be attached in
(a) **Middle** (b) Front of Brake Van
(c) Next to Locomotive (d) Can't be mixed

411. Standard diameters of wheel on tread on BOXN Wagon is -
(a) 1010 mm **(b) 1000 mm**
(c) 950 mm (d) 906 mm

412. Minimum diameters of wheel on tread on BOXN Wagon during service is -
(a) 1000 mm (b) 960 mm
(c) 906 mm (d) 915 mm

413. Standard diameter of wheel on treads on BOX Wagon is –
(a) 960 mm **(b) 1000 mm**
(c) 906 mm (d) 860 mm

414. The axle load of BOXN, BCN, BRN, BOBR, BTPN wagon is -
(a) 22.9 t **(b) 20.32 t**
(c) 16.6 t (d) 12.2 t

415. The axle capacity of BVZC, CRT, BTAL, BTAG, BTPGL wagon is -
(a) 22.9 t **(b) 20.3 t**
(c) 16.3 t (d) 12.2 t

416. The axle capacity of TPR, TORS, and TCL wagon is –
(a) 22.9 t (b) 20.3 t
(c) 16.3 t (d) 12.2 t

417. The wheel gauge should be measured on –
(a) **Off load condition** (b) Loaded wagon
(c) Both condition (d) Empty wagon

418. The lowest wheel dia permitted by workshop for BOXN wagon is -
(a) 919 mm (b) 906 mm
(c) 925 mm (d) 860 mm

419. In CTRB the grease use per Axle box is -
(a) 455 ±30 gms (b) 490±15 gms (c) 500±35 gms (d) 550±20 gms

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420. Maximums permissible wear on outer collar size of journals 255*127, 254*127, 229*114 are
(a) 6.0 mm (b) 11 mm
(c) 8.0 mm **(d) 5.0 mm**

421. RDSO has stipulated three intermediate profile BOXN/BCN wagon with flange thickness as 20,22 and -
(a) 28 mm **(b) 25 mm**
(c) 24 mm (d) 23 mm

422. The condemning wheel diameter of BVG is -
(a) 919 mm (b) 906 mm
(c) 925 mm **(d) 990 mm**

423. The condemning diameter of wheel of B0I wagon is -
(a) 990 mm **(b) 906 mm**
(c) 813 mm (d) 860 mm

424. The new diameter of wheel for BOY wagon is -
(a) 990 mm (b) 1090 mm
(c) 1000 mm (d) 915 mm

425. The condemning diameter of BOBR wheel is -
(a) 815 mm **(b) 906 mm**
(c) 990 mm (d) 860 mm

426. The condemning diameter of BTPN wheel is -
(a) 813 mm (b) 990 mm
(c) 906 mm (d) 860 mm

427. The condemning diameter of BWL wheel is -
(a) 813 mm (b) 906 mm
(c) 915 mm **(d) 860 mm**

428. The radius at the root of the flange of new worn wheel profile is -
(a) **14 mm** (b) 16mm
(c) 18mm (d) 120 mm

429. Permissible maximum flat surface on tread on other BG wagon are –
(a) 75 mm **(b) 60 mm**
(c) 75 mm (d) 70 mm

430. What should be permissible limit of ovality and taper on the journal?
(a) 0.5 mm (b) 0.05 mm
(c) 0.1 mm (d) 0.15mm

431. Permissible maximum flat surface on tread on IRS BG wagon is –
(a) **75 mm** (b) 50 mm
(c) 60 mm (d) 70 mm

432. What is the minimum lateral play between axle box lug and horn check for UIC type trolleys?
(a) **20 mm** (b) 22 mm
(c) 18 mm (d) 12 mm

433. What is the maximum lateral play between axle box lug and horn check for UIC type trolleys?
(a) 20 mm (b) 22 mm
(c) 25 mm (d) 28 mm

ATC C&W BZA

434. Minimum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –
(a) 10 mm **(b) 12 mm**
(c) 14 mm (d) 16 mm

435. Maximum longitudinal clearance between axle box lug and horn check for UIC type trolleys are –
(a) 12 mm (b) 14 mm
(c) 16 mm **(d) 18 mm**

436. Maximum permissible wear on length of journal size of 255*127, 254*127,229*144 are-
(a) 6.0 mm **(b) 11 mm**
(c) 5.0 mm (d) 8.0 mm

437. Maximum permissible wear on inner collar size of journal 255*127,254*127,229*144 are-
(a) **6.0 mm** (b) 11 mm
(c) 5.0 mm (d) 8.0 mm

438. The wheel gauge measures -
(a) The distance between flanges of two wheels on same axle.
(b) The distance between dia and axle.
(c) The distance between journal and bearing.
(d) The distance between two wheel.

439. What is an integrated portion of the axle?
(a) Cap (b) Roller Bearing
(c) Journal (d) None

440. For measuring the diameter of ovality & taper of the journal, how many locations are needed?
(a) Two Location both the vertical and horizontal axis
(b) Three locations both the vertical and horizontal axis
(c) Three location only vertical axis
(d) None of the above

441. Standard dimension 'e' in SAB on Frieght stock is -
(a) 570 mm **(b) 575 mm**
(c) 580 mm (d) 565 mm

442. In yard leaving, minimum Permissible dimension 'e' in SAB on Goods stock is -
(a) 555 mm (b) 570 mm
(c) 565 mm (d) 580 mm

443. The colour coding of distributor valve of air brake goods stock is –
(a) **Yellow** (b) Black
(c) Green (d) White

444. In air brake empty stock end-to-end goods rakes, The empty rake after unloading should be offered for intensive examination before-
(a) Next station **(b) Next Loading** (c) Next Unloading (d) 36 Hours

445. In air brake end-to end rakes, After intensive examination validity of BPC remain upto the
(a) Next station (b) Loading point
(c) Destination point (d) 72 Hours

ARC C&W BZA

446. Control rod diameter of air brake wagon is –
(a) 30 mm **(b) 32 mm**
(c) 38 mm (d) 40 mm

447. Piston stroke of BOXN wagon in empty conditions is -
(a) 85±10 mm (b) 70±15 mm
(c) 75±5 mm (d) 80±10 mm

448. Piston stroke of BOXN wagon in loaded conditions is -
(a) 140±15 mm **(b) 130±10 mm**
(c) 120±15 mm (d) 125±15 mm

449. Piston stroke is empty conditions of BOY wagon is -
(a) 90±10 mm (b) 90±5 mm
(c) 90±15 mm (d) 90±10/5 mm

450. Piston stroke is loaded conditions of BOY wagon is -
(a) 135±5 mm **(b) 135±10 mm**
(c)135±20 mm (d) 120±10 mm

451. In air brake stock, BPC becomes invalid, if the rake is stabled in any examination yard-
(a) **24 hours** (b) 36 hours
(c) 48 hours (d) 12 hours

452. Dirt collector should be cleaned within-
(a) **At the time of ROH** (b) 2 month
(c) 6 month (d) 3 month

453. What is the capacity of control reservoir in goods train?
(a) 4 Lit. **(b) 6 Lit** (c) 8 Lit. (d) 10 Lit.

454. How much air pressure should be dropped in brake van/ last vehicle for continuity test?
(a) 0.8 Kg/Cm^2 **(b) 1.0 Kg/Cm^2**
(c) 1.2 Kg/Cm^2 (d) 1.5 Kg/Cm^2

455. The Colour of Brake Pipe in Twin pipe brake system is -
(a) Black (b) Yellow
(c) Green (d) White

456. The Colour of Feed Pipe in twin pipe wagon is -
(a) Black (b) Yellow
(c) Green **(d) White**

457. What should be the brake pipe pressure in engine?
(a) 4.8 Kg/Cm^2 (b) 4.7 Kg/ Cm^2
(c) 5.0 Kg/ Cm^2 (d) 6.0 Kg/ Cm^2

458. The BP pressure in Brake Van of 56 -BOXN wagon load should not be less than –
(a) 4.5kg/ Cm^2 (b) 3.7 kg/ Cm^2
(c) 4.8 kg/ Cm^2 (d) 5.8kg/ Cm^2

459. What should be the effective pressure in brake cylinder during full service application?
(a) 3.6 Kg/ Cm^2 (b) 3.2 Kg/ Cm^2
(c) 3.8 Kg/ Cm^2 (d) 4.1 Kg/ Cm^2

460. When we release manually KE type DV, the air pressure release form -
(a) CR & AR (b) BC & AR
(c) BC & CR (d) AR & DV

461. The diameter of branch pipe of BP to DV for wagon is –
(a) 25 mm **(b) 20 mm**
(c) 13 mm (d) 22 mm

AFC C&W BZA

462. If ELD handle is kept on loaded position of empty wagon, the result will be -
(a) BrakesRelease **(b) Brake binding**
(c) Train parting (d) None of the above

463. In one BOXN wagon total no. of brake block are -
(a) 4 **(b) 8**
(c) 12 (d) 16

464. 'A' dimension in Boxn wagon is -
(a) 70±20 mm (b) 172±3 mm
(c) 175±4 mm (d) 175+1mm

465. For testing Air pressure locomotive the test plate hole diameter is-
(a) 8.2 mm **(b) 7.5 mm**
(c) 9.5 mm (d) 10 mm

466. D.V. is directly attached with-
(a) Brake cylinder (b) Brake pipe
(c) AR **(d) Common pipe bracket**

467. The diameter of air brake cylinder BOXN wagon is-
(a) 300 mm **(b) 355 mm**
(c) 360 mm (d) 315 mm

468. The diameter of air bake cylinder in BVZC (Wagon) is -
(a) 300 mm (b) 295 mm
(c) 305 mm (d) 315 mm

469. The capacity of Auxiliary Reservoir (wagon) in air brake except Bk.Van is-
(a) 200 litre **(b) 100 litre**
(c) 300 litre (d) 150 litre

470. In Single pipe system the time taken in releasing of the wagon brake is-
(a) **60 Sec.** (b) 120 Sec.
(c) 210 Sec. (d) 90 Sec.

471. Distance between the control rod head and the barrel of SAB is named as -
(a) 'E' dimensions (b) 'C' dimension
(c) 'A' dimension (d) "d" dimension

472. The capacity of compressor machine for air brake testing of rake is –
(a) 12-15 Kg/ Cm2 **(b) 8-10 Kg/ Cm2**
(c) 7-12 Kg/ Cm2 (d) 7-8 Kg/ Cm2

473. In single pipe air brake system, BP is charged with –
(a) 6±0.2 Kg/Cm2 **(b) 5±0.1 Kg/Cm2**
(c) 5.0±0.2 Kg/Cm2 (d) 6.0±0.1 Kg/Cm2

474. At the originating point, minimum brake power of premium end-to-end rake is -
(a) 85% **(b) 95%**
(c) 90% (d) 98%

475. In twin pipe system the Auxiliary Reservoir pressure should be -
(a) 6.0 kg/ Cm^2 (b) 4.8 Kg/ Cm^2
(c) 5.0 Kg/ Cm^2 (d) 6.5 Kg/ Cm^2

476. 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

477. The brake power of CC rake from nodal point is –
(a) 90% **(b) 100%**
(c) 85% (d) 75%

478. Brake power certified issued for such Premium end-to-end rakes will be valid for
(a) 7±4 days **(b) 10±2 days**
(c) 15 ±3 days (d) one month

AIC C&W BZA

479. The amount of air pressure in control reservoir of twin pipe system is -
(a) 3.8 Kg/ Cm^2 (b) 6.0 Kg/ Cm^2
(c) 5.0 Kg/ Cm^2 (d) 4.8 Kg/ Cm^2

480. What is the function of DC (Dirt collector)?
(a) Collect dirt (b) Collect air
(c) Clean air (d) Clean CR

481. How much pressure should drop in a minute after putting a test plate in locomotive?
(a) 0.8 Kg/ Cm^2 **(b) 1.0 Kg/ Cm^2**
(c) 1.2 Kg/ Cm^2 (d) 1.5 Kg/ Cm^2

482. Diameter of brake pipe and feed pipe is (In a good train)-
(a) 28 mm (b) 34 mm
(c) 32 mm (d) 36 mm

483. The three branch pipe attached to common pipe bracket, where the middle pipe lead to-
(a) CR (b) DV
(c) BC **(d) AR**

484. How many cut of angle cock are provided in a vehicle in twin pipe system-
(a) Two **(b) Four**
(c) Six (d) None

485. While isolating DV, the position of the handle in relation to rail line shall be
(a) **Horizontal** (b) vertical
(c) All the above (d) None of the above

486. If brake block is not releasing, pin is remove to release the brake -
(a) Anchor link pin (b) control rod pin
(c) Pull rod pin (d) equalizing pin

487. During Brake application, air flow from -
(a) **AR to BC** (b) PB to BC
(c) BP to BC (d) CR to BC

488. The leverage Ratio is obtained by -
(a) Brake cylinder (b) Tie Rod
(c) Empty Rod **(d) L/E Devices**

489. BP pressure in working train is -
(a) 6.0 Kg/ Cm2 (b) 5.5 Kg/ Cm2
(c) 5.0 Kg/ Cm2 (d) 15.2 Kg/ Cm2

490. The colour for brake power certificate for Premium end-to-end rake is-
(a) **Green** (b) White
(c) Pink (d) Yellow

491. The en-route Brake power percentage of goods train should be -
(a) 85% (b) Not specified
(c) 95% **(d) 90%**

492. For testing DV the time required for brake cylinder draining from 3.8 to .04 kg/cm2 is
(a) 30-40 sec (b) 40-50 sec
(c) 45-60 sec (d) 50-75 sec

493. What is the piston stroke of BVZC wagons?
(a) 50±10 mm **(b) 70±10 mm**
(c) 85±10 mm (d) 90± 5 mm

494. What is the empty piston stroke of BOBR/BOBRN wagon is -
(a) 70±10 mm (b) 75±10 mm
(c) 80±10 mm **(d) 100±10 mm**

495. The diameter of piston rod of 355-mm brake cylinder is -
(a) **40 mm** (b) 38 mm
(c) 30 mm (d) 25mm

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496. The diameter of piston rod of 300-mm brake cylinder is –
(a) 40 mm (b) 36 mm
(c) 32 mm **(d) 30 mm**

497. What is the colour of BPC of air brake system?
(a) Red (b) Pink
(c) Green (d) Yellow

498. What is the colour of BPC of air brake CC rake?
(a) Red (b) Pink
(c) Green **(d) Yellow**

499. During brake release, air from BC goes to -
(a) AR (b) CR
(c) DV **(d) Atmosphere**

500. In twin pipe system, the FP is directly joined to branch pipe of -
(a) CR (b) BC
(c) DV **(d) AR**

501. The max. Air pressure in BC after brake release is -
(a) 4.8 Kg/ Cm2 (b) 5 Kg/ Cm2
(c) 0.0 Kg/ Cm2 (d) 2.5 Kg/ Cm2

502. The max. Air pressure in BP during application is -
(a) 4.8±1 Kg/ Cm2 (b) 5.0 Kg/ Cm2
(c) 3.8 ± 0.1Kg/ Cm2 (d) 3.8 Kg/ Cm2

503. The capacity of AR for wagon is-
(a) 200 lit. (b) 200 lit.
(c) 100 lit. (d) 150 lit.

504. In conventional air Brake system, the diameter of brake cylinder is-
(a) 255 mm (b) 155 mm
(c) 355 mm (d) 455 mm

505. As per population of air brake stock the percentage of distribution value should be kept asspares -
(a) 10% (b) 2% **(c) 5%** (d) 10%

506. The diameter of ball in internal ball valve of cut of angle cock is -
(a) 15 mm (b) 13 mm
(c) 17 mm **(d) 10 mm**

507. The diameter of air brake cylinder for BVZC is -
(a) 400 mm **(b) 300 mm**
(c) 355 mm (d) 295 mm

508. The diameter of Std. Air brake Pressure gauge is-
(a) 60 mm (b) 70 mm
(c) 90 mm **(d) 100 mm**

509. What type of cut of angle cock fitted in goods stock?
(a) Flat type **(b) Ball type**
(c) Square type (d) None of the above

510. For testing DV the time required for filling BC in single pipe system from 0-3.6 kg/cm2 is
(a) 20-25 sec **(b) 18-30 sec**
(c) 15-25 sec (d) 30-40 sec

511. What should be the pressure in feed pipe?
(a) 3.8 Kg/cm2 (b) 5.0 Kg/Cm2
(c) 6.0 Kg/Cm2 (d) none of the above

512. When DV is working condition the position of DV handle is -
(a) **Vertical** (b) Horizontal
(c) Inclined (d) Parallel

AIC C&W BZA

513. "e" dimension for SAB-600, in wagon is -
(a) 444 – 474 mm **(b) 555-575 mm**
(c) 500- 575 mm (d) 440- 575 mm

514. Control rod of SAB when rotated for one round, control rod head moves by a distance of -
(a) 6.0 mm (b) 4.0 mm
(c) 2.0 mm (d) 1.0 mm

515. Piston stroke of the BVZC is -
(a) 60±10 mm **(b) 70±10 mm**
(c) 65±10 mm (d) 75±10 mm

516. For testing DV the time required for charging CR from 0-48 kg/cm2 is -
(a) 290±20 sec (b) 150±20 sec
(c) 185±25 sec (d) 200±20 sec

517. In air brake system branch pipe of DV to AR is connected via common pipe bracket is
(a) At the bottom **(b) In Middle**
(c) At Top (d) To AR

518. The type of joint for FP& BP is -
(a) Grip seal **(b) Flange**
(c) Thread coupling (d) knuckle

519. In air brake system branch pipe of DV to BC is connected via common pipe bracket is
(a) **At the bottom** (b) In Middle
(c) At the Top (d) To AR

520. FP charges -
(a) **AR** (b) CR
(c) DV (d) BP

521. Which equipments are not charged, when C3W DV is isolated in twin pipe system?
(a) Brake cylinder only
(b) Control reservoir and brake cylinder
(c) Control reservoir and auxiliary reservoir
(d) Auxiliary reservoir and Brake cylinder

522. The pressure of Auxiliary reservoir makes to work -
(a) Common pipe bracket **(b) Brake cylinder**
(c) Control Reservoir (d) DV

523. With what pressure of AR twin pipe system works -
(a) BP Pressure only **(b) FP Pressure only**
(c) BP&FP Pressure (d) BC Pressure

524. Dropping BP pressure to do full service application is -
(a) 2.0 to 3.0 kg/ cm2 (b) 3.0 to 3.2 kg/ cm2
(c) 1.3 to 1.6 kg/ cm2 (d) 1.5 kg/ cm2

525. When isolating handle of C3W type DV is kept in horizontal at charging position -
(a) Piston rods of BC come out
(b) Piston rod of BC close not come out
(c) Brake applies and releases
(d) Nothing happens

526. The control reservoir is mounted on the other face of –
(a) Distributor valve (b) Brake cylinder
(c) Common pipe bracket (d) Auxillary reservoir

527. The main BP pressure in brake van of working train with 56 wagon is -
(a) 4.8+/-0.1kg/cm2 (b) 4.5+/-0.1kg/ cm2
(c) 6.0+/-0.1kg/ cm2 (d) None of the above\

528. If C3W type DV is manually released, pressure is released from -
(a) AR (b) Control reservoir
(c) Brake cylinder **(d) All above**

ARC C&W BZA

529. During twin pipe charging position, air pressure in Auxiliary Reservoir is -
(a) 6.5kg/ cm2 (b) 5.8 kg/ cm2
(c) 6.0 kg/ cm2 (d) None of the above

530. In air break system the rate of leakage should not be more then -
(a) 0.025 kg/ cm2 /min **(b) 0. 25 kg/ cm2/min**
(c) 0.0025 kg/cm2/min (d) 0.255 kg/ cm2/min

531. For running 1200mt long train, it is essential to have -
(a) Single pipe graduated release air bk. System
(b) Twin pipe graduated release air bk. System
(c) Single & double pipe-graduated release air bk. System
(d) None of the above

532. The std. free heights and exert force of BC return spring is -
(a) 600 mm- 200 kg/cm2 **(b) 700 mm- 250 kg/cm2**
(c) 730 mm- 125 kg/cm2 (d) 800 mm- 100 kg/cm2

533. When isolating handle of KE type DV is kept in horizontal at charging position -
(a) Piston rods of BC come out
(b) Piston rod of BC close not come out
(c) Brake applies and releases
(d) Nothing happens

534. The total no. of MU washer in a twin pipe wagon is –
(a) **4**
(b) 4 palm & rubber sealing ring
(c) 4 coupling head no washer
(d) 6

535. The Type of dirt collector, used in wagon is -
(a) 2-way **(b) 3-way**
(c) Branch pipe of BP to DV (d) In BP

536. The function of Non return valve used in air brake system is -
(a) To prevent flow of BP
(b) To prevent flow of air from AR to FP
(c) To prevent flow of Air from CR to BP
(d) To prevent CR to be charged

537. What type of grease to be used after cleaning and inspection all parts of slack adjuster?
(a) Graphite grease **(b) Servogen - 2**
(c) Servo- germ 4 (d) None of the above

538. The function of Return spring provided in air brake cylinder is -
(a) To push the spring out side the piston
(b) To push the piston inside the cylinder
(c) To push the deed lever
(d) To push the control rod

539. Pay load of BTPN tank wagon is –
(a) 58.88 tons **(b) 54.28 tons**
(c) 55.80 tons (d) 52.3 tons

540. Axle load of BTPN tank wagon is –
(a) 20.32 tons (b) 22.35 tons
(c) 21.35 tons (d) 25.22 tons

541. Inspection of thickness of H2SO4 barrel carried out with –
(a) **D- meter** (b) C- meter
(c) L- meter (d) MN – meter

542. Barrel length of BTPN tank wagon is –
(a) 11460 mm (b) 11550 mm
(c) 11458 mm (d) 12100 mm

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543. Barrel diameter of BTPN tank wagon is –
(a) 2860 mm **(b) 2850 mm**
(c) 2840 mm (d) 2830 mm

544. Distance between copular to coupler of BTPN tank wagon is –
(a) 12420 mm (b) 12560 mm
(c) 12600 mm (d) 12345 mm

545. During Hydraulic testing of master valve in tank wagon, the water to be filled up to
(a) 130 Cm **(b) 150 Cm**
(c) 180 Cm (d) 200 Cm

546. Thickness of rubber lining of fragile disc and safety bent is –
(a) 3 mm **(b) 5 mm**
(c) 4 mm (d) 6 mm

547. Distance between Headstock to Headstock of BTPN tank wagon is
(a) 11499 mm (b) 11569 mm
(c) 11491 mm (d) 11591 mm

548. What is the inside barrel diameter of the TPGLR tank wagon?
(a) 2100 mm (b) 2230 mm
(c) 2300 mm (d) 2330 mm

549. Length over Headstock of the TPGLR tank wagon is -
(a) 9252 mm **(b) 8382 mm**
(c) 9632 mm (d) 4326 mm

550. Tare weight of the TPGLR tank wagon is -
(a) 17.82 t (b) 17.32 t
(c) 18.2 t (d) 17.1 t

551. The mechanical code of bogie Patrol tank wagon fitted with pneumatic brake is -
(a) **BTPAN** (b) BTPAM
(c) BLPAM (d) BPTWN

552. The mechanical code of bogie Liquefied anhydrous ammonia gas tank wagon is -
(a) **BTAL &BTALN** (b) TBS & BTSA
(c) AST & TSMBA (d) TBT& MBTOX

553. The mechanical code of caustic soda tank wagon is -
(a) CTB & CTBS **(b) TCS & BTCS**
(c) THA & BTCS (d) TCS& MBTS

554. The mechanical code of Lubricating oil tank wagon is -
(a) MBTOV **(b) TORX**
(c) TRP (d) BTCS

555. The mechanical code of bitumen tank wagon type is -
(a) **TBT** (b) TBAT
(c) TRP (d) TPR

556. No of safety valves fitted in sulphuric acid tank is -
(a) One (b) Two
(c) Three **(d) None of the above**

557. No. of pressure release valve fitted in sulphuric acid tank is -
(a) **One** (b) Two
(c) Three (d) None of the above

558. No. of safety valve fitted in liquefied petroleum gas tank is -
(a) One **(b) Two** (c) Three (d) None of the above

559. Codal life of Tank wagon is -
(a) 35 year **(b) 45 year**
(c) 50 year (d) 25 year

560. No of safety vent with frangible disc fitted in sulphuric acid tank wagon is -
(a) **One** (b) Two

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(c) Three (d) None of the above

561. How many no of safety vent with frangible disc fitted in liquid chlorine tank wagon is
(a) One (b) Two (c) Three **(d) None of the above**

562. What is the hydraulic test pressure in the barrel of chlorine tanks wagon?
(a) 43.7 kg/ Cm2 (b) 47.8 kg/ Cm2
(c) 41.23 kg/ Cm2 (d) 49.93 kg/ Cm2

563. What is the hydraulic test pressures in a barrel of LPG tanks wagon?
(a) 26.36kg/ Cm2 **(b) 22.1 kg/ Cm2**
(c) 28.33 kg/ Cm2 (d) 33.23 kg/ Cm2

564. In the tank wagon, close the master valve after -
(a) **Un loading** (b) Loading
(c) Running (d) None of the above

565. In the tank wagon, close the vapour extractor cock after -
(a) Un loading **(b) Loading**
(c) Running (d) None of the above

566. What is the estimated weight of Phosphoric acid tank barrel?
(a) 6.54 t (b) 7.54 t
(c) 7.12 t (d) 8.27 t

567. The diameter of master valve of BTPN tank wagon is –
(a) 90 mm **(b) 100 mm**
(c) 110 mm (d) 200 mm

568. What is the density of LPG at 55º C?
(a) 0.470 to 0.499 (b) 0.499 to 0.677
(c) 0.677 to 0.899 (d) 0.899 to 0.999

569. Thickness of barrel plate (Cylindrical portion) of BTPGL tank barrel is-
(a) 10 mm (b) 12 mm
(c) 15 mm (d) 18 mm

570. Thickness of barrel plate (Dished ends) of BTPGL tank barrel is –
(a) 10 mm (b) 12 mm
(c) 15 mm **(d) 17 mm**

571. Volumetric capacity of BTALN tank barrel is –
(a) 60.66 Cu.m (b) 66.60 Cu.m
(c) 70.33 Cu.m (d) 71.12 Cu.m

572. Corrosion allowance of BTALN tank barrel is –
(a) 1.0 mm **(b) 1.5 mm**
(c) 2.0 mm (d) 2.5 mm

573. What type of brake system used in BTAL tank wagon?
(a) Air brake **(b) Vacuum brake**
(c) Bogie mounted brake (d) Duel brake

574. Volumetric capacity of Liquefied Chlorine tank barrel is –
(a) 15.22 Cu.m **(b) 12.175 Cu.m**
(c) 14.22 Cu.m (d) 17.15 Cu.m

575. Overall width of Liquid Chlorine tank wagon is –
(a) 2708 mm **(b) 2705 mm**
(c) 2805 mm (d) 2900 mm

576. Working pressure of BTPN safety valve is –
(a) 1.4 Kg/cm2 (b) 4.1 Kg/cm2
(c) 2.1 Kg/cm2 (d) 1.2 Kg/cm2

577. Bogie centers of Phosphoric acid tank wagon are –
(a) 8000 mm (b) 8400 mm
(c) 8800 mm (d) 8900 mm

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578. Hydraulic Testing of TCL tank barrel is carried out at –
(a) 44.5 kg/ Cm2 (b) 48.3 kg/ Cm2
(c) 47.3 kg/ Cm2 **(d) 43.7 kg/ Cm2**

579. What is the location of safety valve fitted in sulphuric acid tank wagon?
(a) Inside dome (b) Outside dome
(c) Outside on barrel **(d) None of the above**

580. Condemning limit of BLC wheel set is –
(a) 900 mm (b) 800 mm
(c) 670 mm **(d) 780 mm**

581. Maximum height of side frame from Rail level of container bogie type LCCF 20 (C) trolley is –
(a) 851 mm (b) 715 mm
(c) 932 mm **(d) 786 mm**

582. In BLC wagon, width over sole bar at centre line wagon is –
(a) 2200 mm **(b) 2100 mm**
(c) 2150 mm (d) 2180 mm

583. For lifting the container, force required to lift the container on automatic twist lock is-
(a) 1050 Kg **(b) 1000 Kg**
(c) 1100 Kg (d) 11590 Kg

584. How many load side bearers are fitted in BLC wagon?
(a) 4 (b) 6
(c) 5 (d) 2

585. What is the measurement of 'A' dimension of BFKI?
(a) 65±5 mm (b) 67±3 mm
(c) 60+2 mm (d) 58+3 mm

586. In place of empty load box what device is used in BLC wagon?
(a) BSD **(b) LSD**
(c) SDF (d) SAB

587. As per RDSO standard what shall be the Max. Allowed speed of BFKI?
(a) 75 Km/h (b) 80 Km/h
(c) 100 Km/h (d) 110Km/h

588. What is the material specification of BLC wagon trolley?
(a) **Cast steel** (b) Low cast steel
(c) Steel (d) Micro steel

589. At the time of load distribution what is the percentage of load come on centre pivot?
(a) 10% (b) 15%
(c) 20% (d) 25%

590. Length of over Slack less draw bar for B-car of BLC wagon is –
(a) 14566 mm (b) 13156 mm
(c) 12212 mm (d) 14763 mm

591. What shall be maximum length of container platform in BLC wagon?
(a) 30 feet **(b) 28 feet**
(c) 299 feet (d) 32 feet

592. The standard height of platform for BLC wagon from Rail level is –
(a) 1010 mm (b) 1015 mm
(c) 1009 mm (d) 1100 mm

593. The axle load capacity of BLC wagon is –
(a) 20.10 ton. **(b) 20.32 ton.**
(c) 21.10 ton. (d) 23.10 ton.

594. The tare weight of A-car of BLC wagon is
(a) 21.20 ton. **(b) 19.10 ton.**
(c) 19.80 ton. (d) 20.22 ton

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595. The tare weight of B- car of BLC wagon is
(a) 18.10 ton. (b) 19.10 ton.
(c) 19.80 ton. (d) 20.20 ton

596. Length of over Headstock to Headstock for A-car of BLC wagon is
(a) 13650 mm **(b) 13625 mm**
(c) 13555 mm (d) 13365 mm

597. In BLC wagon, height of slackness drawbar system from Rail level is –
(a) 890 mm (b) 848 mm
(c) 845 mm (d) 910 mm

598. Length of over coupler for A-car of BLC wagon is
(a) 14566 mm (b) 14556 mm
(c) 14655 mm (d) 14255 mm

599. How many automatic twist locks used in BLC wagon?
(a) 6 **(b) 8**
(c) 10 (d) 12

600. Distance between bogie centres of BLC wagon is
(a) 9678 mm (b) 9687 mm
(c) 9765 mm **(d) 9675 mm**

601. Minimum height of side frame bottom from Rail level of container bogie type LCCF 20 (C)trolleyis –
(a) 149 mm (b) 156 mm
(c) 178 mm (d) 123 mm

602. What is the length over Head stock of the BOXN wagon?
(a) 9774mm
(b) 9784mm
(c) 9777mm
(d) 9848mm

603. Tare weight of the BOXN wagon is?
(a) 22.37 tons
(b) 22.47 tons
(c) 23.80 tons
(d) 24.80 tons

604. Tare weight of the BRN wagon is?
(a) 25.2 tons
(b) 24.4 tons
(c) 23.80 tons
(d) 24.80 tons

605. What is the length over couplers of the BOXN wagon?
(a) 10713mm
(b) 10813mm
(c) 11002mm
(d) 10100mm

606. What is the length over couplers of the BCN wagon?
(a) 15400mm
(b) 15443mm
(c) 15429mm
(d) 15563mm

607. What is the length over couplers of the BRN wagon?
(a) 14645mm
(b) 14564mm

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(c) 14332mm
(d) 14463mm

608. Gross load of the BOXN wagon is?(a) 78.92t
(b) 81.28t
(c) 86.78t
(d) 88.81t

609. Gross load of the BRN wagon is?(a) 78.92t
(b) 81.28t
(c) 81.3t
(d) 82.4t

610. Overall height of BOBR wagon from rail level is?
(a) 3735 mm
(b) 3998mm
(c) 4324mm
(d) 4532mm

611. Tare weight of the BCN wagon is?
(a) 22.47tons
(b) 25.37tons
(c) 27.20 tons
(d) 27.80tons

612. What is the periodicity of ROH for BOXN wagons?
(a) 24months
(b) 12months
(c) 36months
(d) 18months

613. What is the periodicity of POH for newly built BOXN wagons?
(a) 42months
(b) 48months
(c) 36months
(d) 72 months

614. Of which brake van is the quick coupling an important part?
(a) BVZT
(b) BVZX
(c) BVZC
(d) BVZM

615. Which of the following stock does not have the ROH frequency of 24 months?
(a) BCCNR
(b) BOXN
(c) BOXNLW
(d) BOBRN

616. Yellow zebra stripes on wagons-what does it signify?
(d) Departmental wagon
(e) Sponsored wagon
(f) Wagon for liquid stock
(d) Wagon for animals.

617. First POH periodicity for the newly built BLC containers wagon is?
(a) 4.5years
(b) 5.5 years
(c) 6.0years
(d) 6.5years

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618. The BOXN bogie is designed for an axle load of?(a) 20.50t
(b) 20.80t
(c) 20.30t
(d) 20.10t

619. POH periodicity of BG brake van is?
(a) 3.5years
(b) 2.0years
(c) 6.0years
(d) 3.5years

620. 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

621. What time relaxation of period has been given it an empty BOX wagon for sending for POH?
(a) Before15days
(b) After30days
(c) Before30days
(d) Before 15days

622. 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 equipment623. What do you mean by CC rakes?
(a) Constant contact pad
(b) Close circuit rake
(c) Complete coal rake
(d) Both B and C

624. Dirt collector should be cleaned in case of Wagons.
(a) At the time of ROH
(b) 2months
(c) 6months
(d) 3months

625. ROH interval in BTPN tank wagon is?
(a) 16months
(b) 20 months
(c) 18months
(d) 24months

626. Thickness of coach flooring Ply is?
(a) 12mm
(b) 16mm
(c) 19mm
(d) 22mm

627. 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

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628. 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 inner springs
(b) Floating bolster carrying center pivot and side bearer
(c) Un damped suspension
(d) Cylindrical roller bearing

629. Why are EM pads provided?
(a) To reduce wheel flange wear
(b) To improve ride index
(c) To increase buffer height
(d) All the above

630. The composite brake block for air brake trains should be changed in the yard, when itsthickness reaches?
(a) 10 mm
(b) 15mm
(c) 20mm
(d) 25mm

631. The Std. gap between wheel and brake block in BOX wagon is?
(a) 8mm
(b) 8.5mm
(c) 6.25 mm
(d) 6.8mm

632. Minimum pressure required for door operation on BOBR wagon is?
(a) 5.0kg/cm²
(b) 4.92kg/cm²
(c) 3.9kg/cm²
(d) 6.3kg/cm²

633. Which type of composite brake block is used in freight stock of under frame mounted brakesystem?
(a) 'K'type
(b) 'L'type
(c) 'KL'type
(d) 'Modified K'type

634. On RDSO recommendations, which material is now used in BVG brake vans in place of wooddust bag?
(a) Glass wool
(b) Cottonwood
(c) Steel wood
(d) None

635. Which RDSO's technical pamphlet is referred to find instructions for maintenance of BOXwagon?
(a) G-71
(b) G-73
(c) G-18
(d) G-16

636. Which RDSO's technical pamphlet is referred to find instructions of BOXN wagon fitted withCASNUB bogies and twin pipe air brake system?
(a) G-90
(b) G-70
(c) G-97
(d) WT-77

637. Which RDSO's technical pamphlet is referred to find instructions for inspection andmaintenance of BOBR wagons?

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(a) G-73
(b) G-78
(c) G-97
(d) G-16

638. Which RDSO's technical pamphlet is referred to find instructions for inspection andmaintenance of CASNUB bogies?
(a) G-97
(b) G-86
(c) G-90
(d) G-95

639. Maximum diameter of wheel on tread on BOXN wagon is?
(a) 1010mm
(b) 1000mm
(c) 950mm
(d) 906mm

640. Minimum diameters of wheel on tread on BOXN wagon duringservice is?
(a) 1000mm
(b) 960mm

(c) 906mm
(d) 915mm

641. The axle load of BOXN, BCN, BDN BOBR, BTPN wagon is?
(a) 22.9t
(b) 20.32t
(c) 16.3t
(d) 12.2t

642. The wheel gauge should be measured on?
(a) Offload condition
(b) Loaded wagon
(c) Either (a)or(b)
(d) Empty wagon

643. The condemning diameter of wheel of BOY wagon is?
(a) 990mm
(b) 906mm
(c) 813mm
(d) 860mm

644. The new diameter of wheel for BOY wagon is?
(a) 990mm
(b) 1090mm
(c) 1000mm
(d) 915mm

645. The condemning diameter of BOBR wheel is?
(a) 815mm
(b) 906mm
(c) 990mm
(d) 860mm

646. The condemning diameter of BTPN wheel is?
(a) 813mm
(b) 990mm
(c) 906mm
(d) 860mm

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647. The condemning diameter of BWL wheel is?
(a) 813mm
(b) 906mm
(c) 915mm
(d) 860mm

648. The radius at the root of the flange of new worn wheel profile is?
(a) 14mm
(b) 16mm
(c) 18mm
(d) 120mm

649. Permissible maximum flat surface on tread on other BG wagon are?
(a) 75mm
(b) 60mm
(c) 75mm
(d) 70mm

650. 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

651. Which of the following is an integrated portion of an axle?
(a) Cap
(b) Roller bearing
(c) Journal
(d) None of these

652. Permissible thickness of CASNUB bogies composite brake block while leaving yard is?
e) 20 mm
f) 10mm
g) 9mm
h) 8mm

653. What is the permissible variation in a group for load bearing & sunbber spring?
(a) 2mm
(b) 3mm
(c) 4mm
(d) 5mm

654. What is the Std. thickness of brake block of BOXN wagon is?
(a) 52mm
(b) 54mm
(c) 56mm
(d) 58mm

655. How many side frames are fitted in a CASNUB trolley/bogie?
(a) **2**
(b) 1
(c) 3
(d) Nil

656. What is the axle load of CASNUB trolley except CASNUB22Hs?
(a) 19.2t
(b) 22.9t
(c) 20.3t
(d) 20.9t

657. What is the new wheel diameter of CASNUB 22W retrofitted?
(a) 1000mm

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(b) 960mm
(c) 956mm
(d) 946mm

658. 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

659. What type of side bearers are fitted in CASNUB 22W bogie?
(a) CC type
(b) Roller type
(c) EM type
(d) None of these

660. What type of pivot is used in a CASNUB 22W trolley?
(a) IRS type
(b) Spherical type
(c) Other type
(d) None

661. 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

662. What is the nominal lateral clearance between side frame& bolster in CASNUB22HS?
(a) 18mm
(b) 10mm
(c) 25mm
(d) 22mm

663. What is the nominal lateral clearance between side frame & bolster in CASNUB 22W, 22WM,22NL, 22NLB?
(a) 16mm
(b) 11mm
(c) 18mm
(d) 20mm

664. What is the nominal longitudinal clearance between side frame & adopter of CANUB22W(M)bogie?
(e) 5mm
(f) 8mm
(g) 10mm
(h) 12mm

665. What is the nominal longitudinal clearance between side frame & adopter of CASNUB 22w(Retro)trolley
(a) 2mm
(b) 4mm
(c) 6mm
(d) Nil

666. What is the nominal lateral clearance between side frame & adopter of CASNUB 22NLB,22HS bogie?
(a) 18mm
(b) 16mm
(c) 22mm
(d) 25mm

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667. What is the standard inclination on wheel tread used in CASNUB bogie?
(a) 1in20
(b) 1in22
(c) 1in18
(d) 1 in25

668. What is the condemning wheel diameter in all CASNUB versions?
(a) 916mm
(b) 906mm
(c) 936mm
(d) 963mm

669. What the condemning dimensions of narrow jaw/wide Adopter thrust shoulder?
(a) 0.4mm
(b) 0.6mm
(c) 0.7mm
(d) 0.9mm

670. What is the lateral clearance between side frame & Axle box/adopter CASNUB 22W,22W(M)

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

671. What is the condemning/wear limit of narrow/wide jaw adopter crown lugs?
(e) 2mm
(f) 4mm
(g) 6mm
(h) 8mm

672. What is the dimension of new wide jaw adopter crown lug?
(a) 155m
(b) 156mm
(c) 154mm
(d) 152mm

673. What is the dimension of new narrow jaw adopter crown lugs?
(a) 154.5mm
(b) 155.5mm
(c) 156.5mm
(d) 157.5mm

674. What is the wear limit of wide /narrow jaw adopter crown seat?
(a) 2.5mm
(b) 3.5mm
(c) 4.5mm
(d) 5.5mm

675. What is the dimension of new wide jaw adapter bore seat to crown seat?
(a) 46.5mm
(b) 47.5mm
(c) 48.5mm
(d) 49.5mm

676. What is the dimension of new narrow jaw adapter bore seat to crown seat?
(a) 25.2mm
(b) 26.2mm
(c) 28.5mm
(d) 27.5mm

677. What is the dimension of new modified wide jaw adapter bore seat to crown seat?
(a) 20.5mm

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(b) 25.5mm
(c) 30.5mm
(d) 35.5mm

678. Worm limit of wide jaw adapter bore seat to crown seat is?
(a) 45mm
(b) 247mm
(c) 48mm
(d) 49mm

679. Condemning limit of modified wide jaw adapter bore seat to crown seat is?
(a) 25mm
(b) 22mm
(c) 27mm
(d) 29mm

680. Condemning limit of narrow jaw adapter bore seat to crown seat is?
(a) 20mm
(b) 22.5mm
(c) 22.7mm
(d) 24.5mm

681. How many type of adapter are used in CASNUB trolley?
(a) 2
(b) 1
(c) **3**
(d) 4

682. The condemning size of brake block of goods stock is?
(a) 30mm
(b) 10mm
(c) 20mm
(d) 15mm

683. Free camber of 10 plated laminated spring of BOX type wagon is?
(a) 47+6/-0mm
(b) 49mm
(c) 52mm
(d) 58mm

684. Nominal free height of inner spring of CASNUB bogie except to HS is?
(a) 260mm
(b) 262mm
(c) 264mm
(d) 266mm

685. What is the nominal thickness of elastomeric pad of CASNUB bogie?
(a) 49mm
(b) 46mm
(c) 48mm
(d) 52mm

686. Condemning size of elastomeric pad for CASNUB bogie is?
(a) 44mm
(b) 43mm
(c) 42mm
(d) 40mm

687. Nominal dimension of side bearer rubber pad for CASNUB bogie is?
(a) 114mm
(b) 116mm

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(c) 118mm
(d) 120mm

688. Condemning size of side bearer rubber pad for CASNUB bogie is?
(a) 111mm
(b) 110mm
(c) 109mm
(d) 108mm

689. IS ---spec of lubricant used to lubricant center pivot of the CASNUB trolley?
(e) IS:495
(f) Is;449
(g) IS:455
(h) None of above

690. New dimension of side frame anti – rotation lug for all CASNUB bogie is?
(a) 520mm
(b) 522mm
(c) 524mm
(d) 528mm

691. Which of the following is the maintenance manual of CASNUB bogie?
(a) G97
(b) G80
(c) G95
(d) G72

692. New pedestal crown for 22NL/NLB/HS CASNUB bogie is?
(a) 300mm
(b) 320mm
(c) 323mm
(d) 330mm

693. Condemning dimension of side frame anti rotation lug for all CASNUB bogies is?(a)530mm
(b) 522mm
(c) 528mm
(d) 524mm

694. Wear limit of pedestal side for CASNUB bogie is?
(a) 1mm
(b) 2mm
(c) 4mm
(d) None of above

695. New dimension of all CASNUB bogie crown side is?
(a) 151mm
(b) 152mm
(c) 154mm
(d) 155mm

696. New dimension of 22W, 22W (M) CASNUB bogie pedestal side is?
(a) 100mm
(b) 105mm
(c) 110mm
(d) None of above

697. New dimension of 22NL/NLB/HS CASNUB bogie pedestal side is?
(a) 80mm
(b) 85mm
(c) 81mm
(d) 82mm

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698. Wear limit of pedestal crown roof for CASNUB bogie is?
(a) 4mm
(b) 5mm
(c) 6mm
(d) 3mm

699. New pedestal crown roof for 22W (M) CASNUB bogie is?
(a) 310mm
(b) 318mm
(c) 320mm
(d) 322mm

700. Distance between new pedestal jaws (long) of CASNUB bogie is?
(a) 230mm
(b) 232mm
(c) 234m
(d) 236mm

701. Wear limit of pedestal jaw (long) of 22NL/NLB/HS CASNUB bogie is?
(a) 2mm
(b) 3mm
(c) 4mm
(d) 5mm

702. Distance between new pedestal jaws (short) of 22NL/NLB/HS CASNUBbogie is?
(a) 182mm
(b) 186mm
(c) 188mm
(d) 190mm

703. New dimension of pedestal jaw CASNUB 22W, 22W (Retro) bogie is?
(a) 270mm
(b) 272mm
(c) 268mm
(d) 190mm

704. New dimension of pedestal jaw for CASNUB 22W (M) bogieis?
(a) 270mm
(b) 274mm
(c) 278mm
(d)290mm

705. Wear limit of crown sides for CASNUB bogie is?
(a) 4.0mm
(b) 3.0mm
(c) 2.0mm
(d) 5.0mm

706. New dimensions of bolster column inner gibs of all CASNUB bogiesare?
(a) 144mm
(b) 136mm
(c) 138mm
(d) 132mm

707. Wear limit of bolster column inner gibs of all CASNUB bogieis?
(a)2.0mm
(b) 5.0mm

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(c) 6.0mm
(d) 8.0mm

708. New dimensions of over bolster land surface of all CASNUB bogie is?
(a) 444mm
(b) 446mm
(c) 448mm
(d) 450mm

709. New dimension of over rotation stop lugs of all CASNUBbogies is?
(a) 516mm
(b) 518mm
(c) 520mm
(d) 522mm

710. Wear limit of bolster land surface of all CASNUB bogie is?
(a) 2.0mm
(b) 3.0mm
(c) 5.0mm
(d) 7.0mm

711. Wear limit of bolster rotation stop lug of all CASNUB bogie is?
(a) 1.0mm
(b) 2.0mm
(c) 3.0mm
(d) 5.0mm

712. Nominal free height of sunbber spring of CASNUB bogie except 22HS is?
(a) 260mm
(b) 270mm
(c) 282mm
(d) 294mm

713. Nominal free height of inner spring of CASNUB 22 HS bogie is?
(a) 261mm
(b) 252mm
(c) 243mm
(d) 246mm

714. Nominal free height of sunbber spring of CASNUB 22 HSbogie is?
(a) 291mm
(b) 294mm
(c) 296mm
(d) 293mm

715. New dimension of bolster column outer gibs of CASNUBbogie is?
(a) 224mm
(b) 234mm
(c) 244mm
(d) 246mm

716. New dimension of bolster column outer gibs of CASNUB 22Hsbogie is?
(a) 232mm
(b) 236mm
(c) 241mm
(d) 251mm

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717. Wear limit of bolster column outer gibs of CASNUB bogie is?
(a) 2.0mm
(b) 3.0m
(c) 5.0mm
(d) 6.0mm

718. New dimension of friction shoes wedge block of CASNUB bogie is?
(a) 60mm
(b) 62mm
(c) 63mm
(d) 61mm

719. Condemning limit of friction shoes wedge block of CASNUBbogie is?
(a) 54mm
(b) 56mm
(c) 58mm
(d) 8.0mm

720. Wear limit of vertical surface in friction shoes wedge block of CASNUBbogie is?
(a) 5.0mm
(b) 6.0mm
(c) 7.0mm
(d) 8.0mm

721. Wear limit of slope surface in friction shoes wedge block of CASNUBbogie is?
(a) 1.0mm
(b) 2.0mm
(c) 3.0mm
(d) 4.0mm

722. Normal free height of outer spring of CASNUB bogie is except HS
(a) 260mm
(b) 262mm
(c) 264mm
(d) 266mm

723. 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

724. 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

725. During Brake application, air flows from?
(a) AR to BC
(b) BP to AR
(c) BP to BC
(d) CR to BC

726. The en-route brake power percentage of CC goods train should be?
(a) 85%
(b) 75%
(c) 95%

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(d) 90%

727. Single pipe system works on?
(a) BP pressure
(b) FP pressure
(c) BP&FP pressure
(d) None of the above

728. 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

729. What do you mean by SWTR?
(a) Single wagon test rubber
(b) Single wagon test rig
(c) Sliding wagon test ring
(d) None of the above

730. SAB is fitted on?
(a) End pull rod
(b) Main pull rod
(c) Control rod
(d) Dead equalizing lever

731. Auxiliary reservoir assists in?
(a) DV charging
(b) Charging of BP
(c) Sending air to BC
(d) Charging of CR

732. The en-route brake power percentage of End to End goods train should be ?
(a) 85%
(b) 75%
(c) 95%
(d) 90%

733. The en-route brake power percentage of PR goods train should be?
(a) 85%
(b) 75%
(c) 95%
(d) Not specified

734. What is the piston stroke of BVZC wagon?
(a) 50mm±10mm
(b) 70mm±10mm
(c) 32mm±10mm
(d) 90mm±10mm

735. What is the piston stroke of BOBR/BOBRN wagon in empty?
(a) 70±10mm
(b) 75±10mm
(c) 80±10mm
(d) 100±10mm

736. 'A' dimension of the BOBRN wagon is?(a) 29+2/-0mm
(b) 27+2/-0mm

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(c) 33±2mm
(d) 25+-^{ss}mm

737. What is colour of BPC of air brake CC?
(a) Red
(b) Pink
(c) Green
(d) Yellow

738. The ELB device indicator plate show?
(a) Yellow empty, black loaded
(b) Blue empty, black loaded
(c) Whit empty, black loaded
(d) Black empty, blue loaded

739. 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

740. 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

741. 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

742. After isolating DV, handle should be?
(a) Tightened with thread
(b) Kept horizontal and tightened with wire
(c) Tightened with wire
(d) Opened

743. 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 chamber744. 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

745. What is the minimum distance being maintained between adjacent two tracks for intensiveexamination?
(a) At least3meters
(b) At least 3.5 meters
(c) At least 4.0 meters
(d) At least 2.0 m

746. If Empty Loaded Device handle is kept on loaded position of empty wagon, the Result will be?
(a) Poor Brake Power
(b) Brake binding

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(c) Both of the above
(d) None of the above

747. Number of brake blocks in one BOXN wagon is?
(a) 4
(b) 8
(c) 12
(d) 16

748. 'A' dimension in BOXN wagon is?

(a) 70±2/0mm
(b) 172±3mm
(c) 175±4mm
(d) 175±1mm

749. D.V is directly attached with?
(a) Brake cylinder
(b) Brake pipe
(c) AR
(d) CPB

750. The diameter of air brake cylinder BOXN wagon is?
(a) 300mm
(b) 355mm
(c) 360mm
(d) 315mm

751. The diameter of air brake cylinder in BVZC (wagon) is?
(a) 300mm
(b) 295mm
(c) 305mm
(d) 315mm

752. The capacity of Auxiliary Reservoir in an air brake wagon except Brake Van is?
(a) 200Litre
(b) 100Litre
(c) 300Litre
(d) 150Litre

753. 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

754. Minimum permissible dimension 'e' in SAB on goods stock, while leaving the yard is?
(a) 555mm
(b) 575mm
(c) 565mm
(d) 580mm

755. What is the colour code of the distributor valve of air brake goods stock?
(a) Yellow
(b) Black
(c) Green
(d) White

756. Control rod diameter of an air brake wagon is?
(a) 30mm
(b) 32mm
(c) 38mm

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(d) 40mm

757. Piston stroke of BOXN wagon in empty condition is?
(a) 85±10mm
(b) 70±15mm
(c) 75±5mm
(d) 80±10mm

758. Piston stroke of BOXN wagon in loaded condition is?

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

759. Piston stroke in empty condition of BOBYN wagon is?
(a) 90±10mm
(b)
100±5mm
(c)
100±10mm
(d)
90±10/5mm

760. Piston stroke in loaded condition of BOBYN wagon is?(a) 135±5m
(b)
135±10mm
(c)
135±20mm
(d)
110±10mm

761. What is the capacity of control reservoir in goods train?
(a) 4Lit
(b) 6 Lit
(c) 8Lit
(d) 10Lit

762. What is the diameter of side operated hand brake wheel for BOXN wagon?
(a) 630mm
(b) 610mm
(c) 620mm
(d) 600mm

763. 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

764. The colour of brake pipe in twin pipe brake system is?
(a) Black
(b) Yellow
(c) Green
(d) White

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765. What should be the brake pipe pressure in engine?
(a) 4.8kg /cm^2
(b) 4.7kg/cm^2
(c) 5.0kg/cm^2
(d) 6.0kg/cm^2

766. 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

767. 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

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

(a) 60sec
(b) 120sec
(c) 210sec
(d) 90sec

768. Distance between the control rod head and the barrel of SAB is named as?
(a) 'E' dimensions
(b) 'C' dimensions
(c) 'A' dimensions
(d) 'D' dimensions

769. In twin pipe system the Auxiliary Reservoir pressure should be?
(a) 6.0kg/cm^2
(b) 4.8kg/cm^2
(c) 5.0kg/cm^2
(d) 6.5kg/cm^2

770. The brake power of CC rake from nodal point is?
(a) 90%
(b) 100%
(c) 85%
(d) 75%

771. 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

772. The of air pressure in control reservoir of twin pipe system is?
(a) 3.8kg/cm^2
(b) 6.0kg/cm^2
(c) 5.0kg/cm^2
(d) 4.8kg/cm^2

773. Which type of side bearer arrangements is used in BLCtrolley?
(a) Elastomeric
(b) Constant contact type
(c) Spring loaded side bearer
(d) None of the above

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774. Which type trolley of is used in BLC wagon?
(a) UIC trolley
(b) Cast steel type of bogie LCCF20
(c) IRS trolley
(d) Diamond frame trolley

775. For automatic locking &for lifting of automatic twist lock how much force is Kg required,respectively?
(a)
600&1000kg
(b)
800&1200kg
(c)
1000&500kg
(d) 500
&1350kg

776. 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

777. 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'

778. Name the type of coupling used in BLC wagon?
(a) CBC&SLD
(b) HTCBC
(c) Screw coupling
(d) Slackness drew bars

(SLD) 779. Pay load of BTPN tank wagon is?
(a) 58.88tons
(b) 54.28tons
(c) 55.80tons
(d) 52.3 tons

780. Axle load of BTPN tank wagon is?
(a) 20.32tons
(b) 22.35tons
(c) 21.35 tons
(d) 25.22tons

781. As per RDSO standard what shall be the Max. Allowed speed ofBFKI?
(a) 75km/h
(b) 80km/h
(c) 100km/h
(d) 110km/h

782. What is the material specification of BLC wagon trolley?
(a) Cast steel
(b) Low cast steel
(c) Steel

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(d) Micro steel

783. At the time of load distribution what percentage of load is coming on the center pivot?
(a) 10%
(b) 15%
(c) 20%
(d) 25%

784. What shall be maximum length of container platform in BLC wagon?
(a) 30feet
(b) 28feet
(c) 29feet
(d) 32 feet

785. The standard height of platform for BLC wagon from Rail levelis?
(a) 1010mm
(b) 1015mm
(c) 1009mm
(d) 1100mm

786. The axle load capacity of BLC wagon is?
(a) 20.10ton.
(b) 20.32ton.
(c) 21.10ton.
(d) 23.10ton.

787. Tare weight of A-car of BLC wagon is?
(a) 21.20ton.
(b) 19.10ton.
(c) 19.80ton.
(d) 20.22ton.

788. MaximumheightofsideframefromRaillevelofcontainerbogietypeLCCF20 trolley is?
(a) 851mm
(b) 715mm
(c) 932mm
(d) 786mm

789. In BLC wagon, width over sole bar at center line wagon is?
(a) 2200mm
(b) 2100mm
(c) 2150mm
(d) 2180mm

790. In place of empty load box what devise is used in BLC wagon?
(a) BSD
(b) LSD
(c) SDF
(d) SAB

791. Tare weight of B-car of BLC wagon is?
(a) 18.10ton.
(b) 19.10ton.
(c) 19.80ton.
(d) 20.20ton.

792. In BLC wagon, height of slackness drawbar system from Rail level is?
(a) 890mm
(b) 848mm
(c) 845mm

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(d) 910mm

793. How many automatic twist locks used in BLC wagons?
(a) 6
(b) **8**
(c) 10
(d) 12

794. Distance between bogie centers of BLC wagon is?
(a) 9678mm
(b) 9687mm
(c) 9765mm
(d) 9675mm

795. Rake carrying capacity of the BLC is?
(a) 40 wagons
(b) 45 wagons
(c) 40 wagons
(d) 48 wagons

796. Which devise have been fitted on BLC wagons to function in lieu of ELB?

(a) Automatic load sensing Devise
(b) Automatic load box Devise
(c) Automatic load sensor
(d) None of these

797. What is the operational speed of BLC wagon rake?
(a) 100 kmph
(b) 110kmph
(c) 75kmph
(d) 120 kmph

798. One modular unit of BLC rake comprises how many CAR 'B' wagons?
(a) Five
(b) Two
(c) Three
(d) One

799. As and when required to detach one wagon from the BLC rake, how many wagons tobe detached in total?
(a) 2
(b) 3
(c) **5**
(d) 1

800. Why is inbuilt slack adjuster of BMBC called single acting?
(e) Because it takes up the slack in return stroke only
(f) Because it takes up the slack in forward stroke only
(g) Both a & b
(h) None of the above

801. Condemning limit of BLC wheel set is?
(a) 900mm
(b) 800mm
(c) 670mm
(d) 780mm

802. In air brake empty stock end-to-end goods rakes, the empty rake after unloading should beoffered for intensive examination before- ?
(a) Next station

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(b) Next loading
(c) Next unloading
(d) Next TXR point

803. 'A' category depot will issue BPC of CC Rake valid upto km?
(a) 7500km
(b) 7000km
(c) 6000km
(d) 6500km

804. In air brakes end-to-end rakes, after intensive examination validity of BPC remain up to the-?
(e) Next station
(f) Loading point
(g) Destination point
(h) 72 hours

805. In air brake stock, BPC become invalid, if the rake is stabled in any examination yardfor more than?
(e) 24hours
(f) 36 hours
(g) 48hours
(h) 12 hours

806. As per RPC -4, whenever the lie-over is more thanhours 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

807. For rakes maintained by 'A' category CC bases, BPC is valid for?
(a) 4500 kmsor15days
(b) 6000 kms or 20days
(c) 7500 kms or 35days
(d) 6000 kms or 15 days

808. Match colour of BPC issued with the stock?

Colour	Stock
A.Pink	1. Air brake stock
B.Light Green	2.VacuumBrake
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

809. For closed circuit air brake rake, Rake integrity, as listed in the BPC be are allowedto bereplaced by good examined wagon in the entire run between two PMEs?
(a) 4wagons
(b) 6wagons
(c) 3wagons
(d) 2wagons

810. How much fading of brake power is permissible in air brake trains from originating Station todestination?
(a) 10%
(b) Nil
(c) 20%
(d) 5%

811. What are the colors recommended for intensive brake power certificate for end toend

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runningair brake (Goods stock)?
(a) Green
(b) Pink
(c) Red
(d) Blue

812. What are the colors recommended for brake power certificate for close circuit airbrake rake(Goods stock)?
(a) Yellow
(b) Pink
(c) Green
(d) White

813. Piston stroke of BMBC coach is?
(a) 28mm
(b) 32mm
(c) 36mm
(d) 38mm

814. In SAB, double acting means?
(e) Provision of braking action on both the brake shoes
(f) Correcting the clearance on both the brake shoes
(g) Spindle inside the barrel moves in both direction
(h) Brake shoes clearance is adjusted to its correct value both ways

815. What is the function of SAB?
(e) To developed automatic adjustment
(f) Regulate working of BC.
(g) To provided extra support to brake block
(h) To transfer the push of piston rod.

816. 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

817. What shall be tolerance permitted between door center line to door hinge in a newwagon?
(a) +2/-1mm
(b) +2.5/-1.5mm
(c) ±1.5mm
(d) ±2.5mm

818. The BOXN bogie is designed for an axle load of?
(a) 22.1t
(b) 20.3t
(c) 21.9t
(d) 16.8t

819. The primary lock clearance of BOBR door is?
(a) 3mm
(b) 5mm
(c) 7mm
(d) 4mm

820. At the originating point, minimum brake power of premium end-to-end rakeis?
(a) 85%
(b) 95%
(c) 90%
(d) 98%

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821. The colour of brake power certificate for premium end-to-end rake is?
(a) Green
(b) White
(c) Pink
(d) Yellow

822. The BPC of ballast train is valid for?
(a) 3days
(b) 7days
(c) 15days
(d) 30days

823. Diameter of brake pipe and feed pipe in a goods train is?
(a) 28mm
(b) 34mm
(c) 32mm
(d) 36mm

824. 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

825. What type of center buffer coupler used in Indian railway?
(a) ARPT type
(b) AARP type
(c) AAR type
(d) ARPA type

826. 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

827. The yield strength of knuckle of material AAR-M-201 Grade 'C'(STD) is?
(a) 180t
(b) 171t
(c) 142 t
(d) 132t

828. The yield strength of knuckle of material AAR-M-201 Grade 'E' (HT) is?
(a) 180t
(b) 171 t
(c) 142t
(d) 132t

829. The yield strength of coupler body of AAR Grade 'C'(STD) is?
(a) 180 t
(b) 169t
(c) 179t
(d) 159t

830. The yield strength of coupler body of material AAR-M-211 Grade 'E'(HT) is?
(a) 180t
(b) 200 t

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(c) 205t
(d) 211t

831. The yield strength of the knuckle is 180 t compared to 132 t in standard coupler; the draftcapacity of HT coupler is?
(a) 45%higher
(b) 36%higher
(c) 22%higher
(d) 18% higher

832. The working strength of center buffer coupler is?
(a) 100t
(b) 120t
(c) 140t
(d) 180t

833. Which among the following buffer gear assemblies absorbs the buffer impact?
(a) Buffer Spring
(b) Plunger
(c) Buffer Casting
(d) Spindle

834. Material AAR-m-201&211 Grade 'E' coupler is called as?
(a) High Tensile
(b) Non-Tensile
(c) Standard
(d) None of the above

835. Clevis and Clevis pin are the part of?
(a) Alliance-II coupler
(b) Non –transition coupler
(c) Transition coupler
(d) Draw bar

836. As per watering committee recommendations, what should be the ideal distancebetween two consecutive watering stations on BG system?
(a) 80-120Kms (b) 120-160kms
(c) 200-240kms**(d) 160-200kms**

837. The maximum permissible buffer height above rail line to center of H/Stock under loadedcondition is?
(a) 1105mm
(b) 1145mm
(c) 1115mm
(d) 1030mm

838. Standard buffer projection from Head stock is?
(a) 650mm
(b) 635mm
(c) 620mm
(d) 660mm

839. Min permissible buffer projection from Head stock is?

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(a) 635mm
(b) 600mm
(c) 590mm
(d) 584mm

840. Standard diameter of knuckle pivot pin is?
(a) 50mm
(b) 43mm
(c) 41.28mm
(d) 34mm

841. Permissible diameter of knuckle pivot pin is?
(a) 41mm
(b) 38mm
(c) 39.5mm
(d) 40.5mm

842. Standard diameter of Clevis pin is?
(a) 35mm
(b) 38mm
(c) 39mm
(d) 37mm

843. Permissible diameter of clevis pin is?
(a) 35.8mm
(b) 38.5mm
(c) 36.5mm
(d) 37mm

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