

MECHANICAL DEPARTMENT (CARRIAGE & WAGON)

WAGON

1. What type of roller bearing is used in BTPN?
 - a. Cylindrical
 - b. Plan
 - c. Cartage taper
 - d. Ball

2. POH of BOX N Wagon is done at the interval of how many months?
 - a. 12
 - b. 09
 - c. 18
 - d. 54

3. Roof sheet thickness in BCNA wagon is?
 - a. 2.4 mm
 - b. 0.6 mm
 - c. 1.6 mm
 - d. 2.5 mm

4. What is the material of Floor sheet of BOXN wagon?
 - a. Mild Steal
 - b. Corton Steal
 - c. Stainless Steel
 - d. None of them

5. Wheel base of CASNUB bogie?
 - a. 2000
 - b. 2400
 - c. 1200
 - d. 900

6. What is the minimum buffer height of goods wagon ?
 - a. 1030 mm
 - b. 1075 mm
 - c. 1105 mm
 - d. 995 mm

7. What is the minimum Wheel dia of CASNUB Bogie ?
 - a. 1000 mm
 - b. 906 mm
 - c. 1092 mm
 - d. 950 mm

8. What is the Condemn height of Elastomeric Pad?

- a. 40 mm
- b. 42 mm
- c. 46 mm
- d. None

9. What is the permissible variation in Wheel dia of same CASNUB bogies of a wagon?

- a. 5
- b. 10
- c. 13
- d. 25

10. What is the permissible limit of sharp flange of wheel?

- a. 35 mm
- b. 50 mm
- c. 16 mm
- d. None of these

11. What size packing is used in CASNUB Bogie to adjust CBC height?

- a. 37 mm
- b. 25 mm
- c. 35 mm
- d. None of these

12. What is the "A" dimension of SAB for BOXN ?

- a. $70 \pm 2\text{mm}$
- b. $70+2-0\text{mm}$
- c. $50 \pm 2\text{mm}$
- d. $22 \pm 2\text{mm}$

13. What is the Piston stroke of Brake Cylinder for BOXN wagon in empty condition?

- a. $75 \pm 10\text{mm}$
- b. $85 \pm 10\text{mm}$
- c. $130 \pm 10\text{mm}$
- d. $60 \pm 10\text{mm}$

14. What is the feed pipe pressure for BOXNHL wagon?

- a. 5 Kg/Cm^2
- b. 6 Kg/Cm^2
- c. 3.8 Kg/Cm^2
- d. None of these

15. Which is the instrument checked by Axle ?

- a. DPT
- b. UST
- c. Wheel gauge
- d. None of these

16. Which material is made of Centre pivot of CASNUB Bogie?

- a. Cast Iron
- b. Cast steel**
- c. Mild Steel
- d. Stainless Steel

17. How much Proof load Capacity of enhance screw coupling ?

- a. 36 ton
- b. 70 ton
- c. 75 ton**
- d. 130 ton

18. In one unit of BLC wagon how much Car A unit?

- a. 3
- b. 5
- c. 2**
- d. 4

19. How much Maximum buffer height of goods wagon ?

- a. 1030mm
- b. 1075mm
- c. 1105mm**
- d. 995mm

20. Which bearing is used in CASNUB bogie?

- a. Cylindrical
- b. Spherical
- c. CTRB**
- d. None of these

21. What is the Permissible Wheel dia difference of both CASNUB bogies of a wagon?

- a. 5 mm
- b. 10 mm
- c. 13 mm
- d. 25 mm**

22. What is Permissible limit of Deep flange in wheel ?

- a. 35 mm**
- b. 50 mm
- c. 28 mm
- d. 22 mm

23. 37 MM packing is used in 22 WM CASNUB bogie to adjust CBC height in which wheel Dia?

- a. 924mm
- b. 900mm
- c. 905mm
- d. 950mm

24. What is the "A" dimension of SAB for BTPN?

- a. $70 \pm 2\text{mm}$
- b. $70+2-0\text{mm}$
- c. $50 \pm 2\text{mm}$
- d. $22 \pm 2\text{mm}$

25. What is the Piston stroke of Brake Cylinder for BTPN wagon in empty condition?

- a. $70 \pm 10\text{mm}$
- b. $87 \pm 10\text{mm}$
- c. $130 \pm 10\text{mm}$
- d. $117 \pm 10\text{mm}$

26. In one unit of BLC wagon how much Car B unit?

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

27. How much weight of Grease is used in CTRB?

- a. $455 \pm 30\text{gms}$
- b. $250 \pm 30\text{gms}$
- c. NIL
- d. 1500 gms

28. What is the minimum buffer height of a wagon from Rail level ?

- a. 1030mm
- b. 1105mm
- c. 900mm
- d. 1075mm

29. What is the Speed limit of A Class ODC during day?

- a. 100kmph
- b. 110kmph
- c. 90kmph
- d. 40kmph

30. What is the minimum Flange thickness in worn wheel profile?

- a. 22mm
- b. 16mm
- c. 25mm
- d. 20mm

31. What material used for Floor sheet of BOXNHL?

- a. Mild Steel
- b. Corton Steel
- c. IRSM 44
- d. None of these

32. What is the "E" dimension of SAB for BOXN wagon?

- a. 255mm
- b. 300mm
- c. 555mm
- d. None of these.

33. What is the Piston stroke of Brake Cylinder for BVZI wagon?

- a. 22mm
- b. 32mm
- c. 72mm
- d. None of these.

34. Slackless drawbar is used in which type of wagon ?

- a. BLC
- b. BOXNHA
- c. BOXNEL
- d. BOXNHL

35 The wheel gauge should be measured on which condition of wagon?

- a. Off load condition
- b. Loaded wagon
- c. Empty wagon
- d. None of these.

36. After reaching on an accident site which first step to taken by you?

- a. prima facie cause of accident
- b. First aid of injured
- c. protection of site
- d. arranging food

37. Which work of Control reservoir in air brack system ?

- a. To control BP pressure
- b. To control DV valve
- c. To control Brack system
- d. To control AR pressure.

38. What is the capacity of control reservoir in Goods Stock ?

- a. 6 litre
- b. 7 liter
- c. 8 liter
- d. 9 liter.

39. What type of Brake power certificate issued for Premium rakes ?

- a. 7+/-4 days
- b. 10+/-2/o days
- c. 15+/-3 days
- d. None of these.

40. What is the colour of BPC of CC rake ?

- a. Yellow
- b. Red
- c. Green
- d. White.

41. What is the colour of BPC of Premium rakes ?

- a. Yellow
- b. Red
- c. Green
- d. White.

42. What is the valid for BPC of ballast train ?

- a. 30 days
- b. 15 days
- c. 7 days
- d. 20 days.

43. What is the Maintenance manual of BOXN wagon fitted with CASNUB bogie?

- a. G 97
- b. G95
- c. G 70
- d. G 78.

44. What is the working pressure of BTPN safety valve ?

- a. 1.4 kg/cm²
- b. 2.1 kg/cm²
- c. 4.1 kg/cm²
- d. 1.2 kg/cm².

45. How many number of Automatic twist locks used in BLC wagon?

- a. 7
- b. 8**
- c. 9
- d. 10.

46. How much force required to lock for automatic twist lock of BLC wagon ?

- a. 600Kg**
- b. 700Kg
- c. 800kg
- d. 900kg.

47. How much force required to releasing automatic twist lock of BLC wagon ?

- a. 600Kg
- b. 700Kg
- c. 800kg
- d. 1000kg.**

48. If gauge is found more than 1682 mm it is termed as?

- a. Slack gauge**
- b. Standard gauge
- c. Tight gauge
- d. Short gauge.

49. As per accident manual accidents are classified in 16 categories from A to R excluding?

- a. B & D
- b. I & O**
- c. P & Q
- d. J & K

50. Which does not cover under definition of cattle as par accident Manual?

- a. Cow
- b. Elephant
- c. Buffalo
- d. Donkey**

51. Rate of variation in cross level per meter is called?

- a. Twist**
- b. Creep
- c. Cant
- d. Buckling

52. The longitudinal movement of rails in the track is called?

- a. Twist
- b. Buckling
- c. Creep
- d. Cant.

53. Cant or Super-elevation is provided at?

- a. Straight track
- b. Left curve only
- c. Right curve only
- d. Curves.

54. Clearance of check rail on the curves in BG?

- a. 30mm
- b. 36mm
- c. 44mm
- d. 50mm

55. Tack Gauge is measured how much below the rail top ?

- a. 13mm
- b. 10mm
- c. 14mm
- d. 08mm

56. If gauge is found less than 1670 mm on straight track is termed as?

- a. Slack gauge
- b. Standard gauge
- c. Tight gauge
- d. Short gauge.

57. What happens to the air pressure in brake pipe of BOXN wagons when brake is applied.

- a. Reduced
- b. Increased
- c. No Effect
- d. Doubled

58. Which type bearing are used for journals in BOXN / BCN wagons

- a. cylinder
- b. taper roller
- c. Roller
- d. Cone

59. What is the main difference between 22W & 22WM CASNUB bogies?

- a. design of brake beam
- b. type of wheel
- c. design of air brake
- d. design of brake gear

60. What does the empty load box provided in the brake gear adjust?
- a. adjust the brake block in the brake rigging
 - b. to change the BK power
 - c. to adjust the SAB
 - d. None of the above
61. What distance is defined as "A" dimension of SAB?
- a. Adjuster and control rod
 - b. Control rod head and horizontal lever
 - c. Control rod head and barrel head
 - d. control rod head and Z lever
62. What absorbs the shock in a center buffer coupler by pulling or pushing?
- a. draft gear
 - b. coupler
 - c. center buffer coupler
 - d. Yoke
63. Under frame and body panel in a wagon are of which material?
- a. alloy steel
 - b. mild steel
 - c. cast steel
 - d. carbon steel
64. In a BOBN wagon, what discharge is provided?
- a. Central discharge
 - b. Side discharge
 - c. Top discharge
 - d. End Panel discharge
65. Distributor valve is provided in a wagon to provide what action in air pressure of the air brake system?
- a. Decrease
 - b. Increase
 - c. Stable.
 - d. Excess air discharge.
66. What is the maximum pressure air admitted in the brake cylinder of air brake wagon?
- a. 3.9
 - b. 3.5
 - c. 3.8
 - d. 3.6

67. Stronger welds are produced in welding?
a. over head
b. down hand
c. across
d. parallel
68. For welding mild steel, which class electrodes are nominated?
a. Class A
b. Class B
c. Class C
d. Class D
69. Better welding qualities are obtained by which using in welding plant?
a. DC
b. Non DC
c. Non AC
d. AC.
70. While welding wagon body, when the wagon is already mounted on a bogie, earthing of the wagon direct with the welding plant which is very much essential to avoid damage ?
a. Wheel tread
b. Roller bearing
c. Welding plant
d. Rail.
71. Bk. block keys are manufactured by which material?
a. High carbon steel
b. Mild steel
c. Silicon manganese steel
d. High mild Steel.
72. What action happened in tempering is done to hardening during heat treatment of steel?
a. Increase
b. Reduce
c. Excessive
d. Release the stress
73. In MIG welding which is used to protect the weld metal?
a. Welding flux oxygen
b. Carbon dioxide
c. Oxygen.
d. Acetylene.

74. While using the gas cutting plant (oxy acetylene) initially the regulator valve [should be/ should not be/Yet to be/Not yet to be] opened before opening the main valve of cylinders [✓].
75. An oxy acetylene flame [**Can/ Cannot / Not yet/ Yes**] cut cast iron easily [✓].
76. Leakage of air from brake pipe in a air brake wagon will result in brake?
a. release
b. **application**
c. No release.
d. No application.
77. CASNUB bogie Snubber (wedge) requires?
a. **Solid lubrication.**
b. Liquid lubrication.
c. No lubrication.
d. Hard lubrication.
78. The length of the operating handle of BLC wagon?
a. 1061 mm
b. 1062 mm
c. **1063 mm**
d. 1064 mm
79. During single car test of a wagon, the maximum permissible leakage rate of BP ?
a. 0.4. kg/cm²
b. 0.2 kg/cm²
c. **0.1 kg/cm²**
d. 0.3 kg/cm²
80. The length of the operating handle of BOXN wagon?
a. 1400 mm
b. 1410 mm
c. **1414 mm**
d. 1416 mm
81. Permissible limit for thin flange thickness in 'New' condition.
a. 25.5 mm
b. 27.5 mm
c. **28.5 mm**
d. 26.5 mm

82. Permissible limit for thin flange thickness in 'Condemned' condition.
- a. 16 mm
 - b. 18 mm
 - c. 15 mm
 - d. 14 mm
83. Permissible limit for sharp flange tip radius in 'New' condition.
- a. 13.5 mm
 - b. 12.5 mm
 - c. 14.5 mm
 - d. 11.5 mm
84. Permissible limit for sharp flange tip radius in 'Condemned' condition.
- a. 5.0 mm
 - b. 5.5 mm
 - c. 6.0 mm
 - d. 6.5 mm
85. What is the permissible limit for Radius too small at the root of flange in 'New' condition.
- a. 13R or below
 - b. 14R or below
 - c. 15R or below
 - d. 16R or below
86. What is the permissible limit required for Deep Flange.
- a. 35 mm
 - b. 32 mm
 - c. 30 mm
 - d. 28 mm
87. What is the permissible limit for Flatness on wheel circumference in Goods Stock.
- a. Upto 55 mm
 - b. Upto 60 mm
 - c. Upto 57 mm
 - d. Upto 63 mm
88. What is the permissible limit for groove on wheel in case of Hollow Tyre?
- a. Upto 3 mm
 - b. Upto 4 mm
 - c. Upto 5 mm
 - d. Upto 6 mm

89. What is the permissible thickness limit for remaining tyre for thin tyre to happen ?
- Less than 40 mm
 - Less than 35 mm
 - Less than 30 mm
 - Less than 25 mm
90. What is the Outer Spring height of CASNUB 22HS ?
- 250 mm
 - 255 mm
 - 260 mm
 - 265 mm
91. What is the Inner Spring height of CASNUB 22HS ?
- 240 mm
 - 241 mm
 - 243 mm
 - 244 mm
92. What is the Snubber Spring height of CASNUB 22HS ?
- 291 mm
 - 292 mm
 - 293 mm
 - 294 mm
93. What is the condemning limit of Outer Spring in CASNUB 22HS ?
- 242 mm
 - 245 mm
 - 247 mm
 - 249 mm
94. What is the condemning limit of Inner Spring in CASNUB 22HS ?
- 226 mm
 - 228 mm
 - 230 mm
 - 232 mm
95. What is the condemning limit of Snubber Spring in CASNUB 22HS ?
- 274 mm
 - 276 mm
 - 278 mm
 - 280 mm
96. What is the Piston stroke of Brake Cylinder for BLC wagon in loaded condition?
- 110 mm
 - 115 mm
 - 120 mm
 - 125 mm

97. Axle Box temperature allowed in normal condition?
- 20° to 30° C
 - 30° to 40° C
 - 40° to 50° C
 - 50° to 60° C
98. What is the Specified Air brake leakage test of a wagon by SWTR?
- 0.25 kg / cm² / min.
 - 0.30 kg / cm² / min.
 - 0.35 kg / cm² / min.
 - 0.40 kg / cm² / min.
99. In Sensitivity test – BP press reduced at the rate of 0.6 kg/cm²?
- Brake will apply within 6 seconds.
 - Brake will not be applied within 6 seconds.
 - Brake never applies.
 - Brake application done immediately.
100. During buffer height adjustment which thickness of packing piece according to wheel dia 954-931 in CASNUB Bogie?
- 10 mm
 - 11 mm
 - 12 mm
 - 13 mm
101. What type of wagon used for transportation of liquids like petrol, kerosene oil?
- BFKI
 - BLC
 - BTPN
 - BTPGLN
102. What type of wagon used for transportation of gases like LPG?
- BFKI
 - BLC
 - BTPN
 - BTPGLN