

QUESTION & Answer ON LHB COACH

GENERAL:- 1

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 Km/h upgradeable to 180 Km/h . b) 180 Km/h upgradeable to 200 Km/h

c) 200 Km/h upgradeable to 220 Km/h . d) 200 Km/h upgradeable to 220 Km/h

8. What is the wheel gauge of LHB wheel?

a. 1676 mm **b) 1600±1 mm** d) 1676 ±1 mm

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

a. 910 mm **b) 915 mm** . d) 725 mm

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

a. 813 mm b) 839 mm **c) 855 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) 29.4 mm** 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 shock absorbers are used in LHB Coaches?

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

18. What is the name of shock absorber connected between bogie and car body?
a. Primary b) Secondary
Yaw. d) None of these.
22. Most important condition for
19. What is the length over CBC of LHB Coaches?
a. 23590 mm **b) 24000 mm** c) 24095 mm d) 24225 mm
20. What is the height over roof of LHB Coaches?
a. 4200 mm b) 4390 mm c) **4039 mm** d) 4190 mm
21. Riding Index” of LHB Coach – a) 3.5 b) 3.8 .c) **2.5** d) 3.0
22. Distance between inner wheels of LHB -
12340 mm b) 10390 mm
11545 mm d) 12010 mm
27. Distance between
23. Trip Maintenance Schedule i.e. D1 of LHB Coach is done -
a. 7±1 days b) 15 days c) **Every Trip** d) 30 days
24. D2 Maintenance Schedule of LHB Coach is done -
30 days ± 1days **b) 30 days ± 3days** 30 days ± 5days d) 30 days ± 7days
25. D3 Maintenance Schedule i.e. of LHB Coach is done -
150 days ± 1days b) 120 days ± 3days c) **180 days ± 15 days** d) 90 days ± 7days
26. ‘SS-I’ (Shop Schedule-1) of LHB coach is done - 1 year b) 2 years
c) 1.5 year/ 6 lacs Kms earned whichever is earlier
d) 3 years/ 6 lacs Kms earned whichever is earlier
26. ‘SS-II’ of LHB coach is done -
a) 1 year b) 2 years c) 1.5 year/ 6 lacs Kms earned whichever is earlier
d) 3 years/ 12 lacs Kms earned whichever is earlier
27. ‘SS -III’ of LHB coaches is done -
a) 5 years b) 4 years c) 3 years/ 12 lacs Kms earned whichever is earlier
d) 6 years/ 24 lacs Kms earned whichever is earlier
28. ‘IOH’ of LHB coaches is done -
a) 18 months b) 12 months c) **9 months** d) 14 months
29. Coidal life of LHB coaches is -
a. 30 years b) 25 years c) None of the above d) 35 years
30. Brake power of air brake for Rajdhani coaches from out station is -
a. 90% **b) 100%** c) 85% d) 95%
31. wheel base of LHB bogie?
a) 2440 mm b) 2696 mm c) **2560 mm** d) 2570 mm

Coach/Shell-1

1. 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
2. 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 Chapter 2
3. Thickness of Corrugated sheets of LHB coaches are -
a) 2 mm b) 3 mm
c) 1.25 mm d) 2.5 mm
4. Thickness of side wall sheets of LHB coaches are -
a) 2 mm b) 3 mm
c) 1.25 mm d) 2.5 mm
5. Sole bar 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 sole bar of LHB coaches is -
a) 2 mm b) 5 mm
c) 4 mm **d) 6 mm**
7. Thickness of Roof flange of LHB coaches is -
a) 2 mm b) 5 mm
c) 4mm d) 6 mm
8. Material of yaw damper bracket of LHB Coaches is -
a) Cast steel b) IRSM-41
c) Ferritic steel (SS-409) d) IRSM-44 Chapter 2
9. Yaw damper is fitted on -
a) Sole bar b) Bogie . c) Under frame.
d) Between under frame and bogie frame
10. The Fire Extinguisher used in AC LHB coaches is -
a) Foam type b) **DCP Type**
c) CO2 type d) None of these
11. Fire Extinguisher should be refilled -
a) Every month b) Every 3 months
c) After 1 year d) On every trip

Coach/Shell-2...

12. How many brake cylinders are used in a LHB type coaches.
a. 1 b) 6 c. 12 **d) 8**
13. Outer diameter of main BP & FP pipe line is -
a. 20mm **b) 32 mm** c) 28 mm d) 40 mm
14. Outer diameter of main BC pipe line is -
a. 20 mm **b) 18 mm** c) 22 mm d) 10 mm
15. Brake caliper unit mounted on -
Bogie cross beam b) Bogie side frame c) Wheel axle d) Any of above
16. By pass system is used in brake system when -
a. F.P pipe broken b) B.P Pipe broken c) Hose pipe broken d) **Any of these**
17. What will you do when one end BP angle cock leakage enroute –
By pass the coach b) Single pipe the train c) Isolate the line from T- joint
d. Any of above
18. 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
19. One brake indicator shows 'Green' even brakes are in applied condition is -
a. CR of the coach not charged
b. Hand release valve stuck up in release position
c. **Brake indicator stuck up in release position** d) Any of above
20. During drop test of the rake the maximum drop permitted in BP is
a. **0.2 kg/cm²** b) 0.3 kg/ cm² c) 2.0 kg/ cm² d) 0.6 kg/ cm²
21. During drop test of the rake the maximum drop permitted in FP is -
0.2 kg/ cm² b) 0.6kg/ cm² c). 2.0 kg/ cm² d) 1.0 kg/ cm²
22. During service application the brakes should apply in -
20 Sec. b) 30 Sec c) **3-5 Sec.** d) 15-20 Sec.
23. During full brake application the max. Pressure in brake cylinder is -
1.6 Kg/Cm² **b) 3.0 Kg/Cm²** c) 3.8 Kg/Cm² d) 4.8 Kg/Cm²
24. Charging time of CR is -
150 Sec. b) **160 Sec.** c) 140 Sec. d) 120 Sec.
25. After full brake application the brake should release with in.
10-20 Sec. b) 20-25 Sec. c) **15-20 Sec.** d) 25- 30 Sec.
26. 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

BRAKE SYSTEM -1

1. 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
2. 125 Ltr AR tank used for -
a. Toilet purpose **b) Braking purpose** c. Standby d) None of these.
3. 75 Ltr AR tank used for -
a. **Toilet purpose** b) Braking purpose c. Standby d) None of these.
4. 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
5. Diameter of BC line branch pipe is -
a. 25 mm b) 20 mm. **c.18 mm** d) 16 mm
6. Diameter of brake indicator pipe is -
a. 18 mm **b) 10 mm.** c.15 mm d) 20 mm
7. When brake indicator shows 'Red', the brake will be -
a. Released b) **Applied** c. Indicator defective d) none
8. When brake indicator shows 'Green' the brake will be -
a. Released b) Applied . c. Indicator defective d) none
9. Brake accelerator is a -
a. Brake actuating device b. **Emergency brake application device.**
c. Both a & b d. None of these
10. Brake accelerator actuates during -
a. Every service application . b. **Emergency brake application**
c. Both a & b. d. None of these.
11. Brake accelerator stops venting when BP pressure reached to -
a. 1.0 kg/cm² b) 3.5 - 3.0 kg/cm². **c. 2.5 - 1.5 kg/cm²** d) 1.5 - 1.0 kg/cm²
12. Brake accelerator is connected to -
a. FP pipe **b) BP pipe** c. BC pipe d) both a & b
13. 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
14. Flex ball cable directly connected to -
a. Brake caliper b) **Brake cylinder** c. Both d) None of these
15. 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

BRAKE SYSTEM – 2...

16. The applications of Dump valve is -
a. Only braking. b) Only De-braking
c. **Both braking and de-braking.** d) None of these
17. Electricity required for Dump valve operative -
a. 110 volt AC b) **110 volt DC** c. 24 Volt DC d) 230 Volt AC
18. Anti skid system is a -
a. Electronic system b) **Pneumatic system** c. Electro Pneumatic both a & c
d. What is the purpose of speed sensor?
19. 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
20. Pressure switch actuate at the train pressure reaches -
0.5 bar b) 1 bar **1.3-1.8 bars.** d) 1.5 – 3.0 bars
21. How many brake cylinders are used in LHB coaches?
a. 6 b) 4 c) **8** d) 16
22. 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.
23. 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**
24. 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
25. If micro processor shows '95' code means -
a. Temporary fault b) Permanent fault c. No fault d) **none of these**
26. How much pressure dropped when emergency brake -
a . 0.4 kg/cm² b) 1.0 kg/cm² c . **Almost 3 kg/cm²** d) none of these
27. "PEASD' provided in LHB can be reset -
a. From under gear of coach only b. From any where of inside coach
c. **From the point where chain pulled.** d. Both a & b
28. Location of isolating cock provided in 'PEASD' in LHB coaches.
a. On under gear b. Near emergency brake valve
c. **One side of coach isolating cock provided** d. None of these
29. When emergency pull box pulled from inside the coach.
a. The air pressure slightly dropped. B)**The BP pressure dropped.**
c. No pressure dropped d) None of these.

BRAKE SYSTEM – 3...

30. Thickness of new brake pad is -
a. 28 mm b) 30 mm **c) 35 mm** d) 32 mm
31. Condemning limit of brake pad is -
a. 10 mm **b) 7 mm** c) 8 mm d) 9 mm
32. Maximum brake cylinder pressure in kg/cm² is –
a. 3.0 ± 0.1 kg/cm² b) 3.8 ± 0.1 kg/cm² c) 2.8 kg/cm² d) 4.0 ± 0.1 kg/cm²
33. Maximum gap between brake disc and brake pad is -
a. 3mm b) 1mm c) 2mm **d) 1.5 mm**
34. Actual size of tool required to open slack adjuster nut of KB brake cylinder is -
a) 42 mm **b) 27** c) 36 mm d) 40 mm
35. Correct direction to open slack adjuster nut of 'KB' make brake cylinder is -
a) Anti clock wise b) **Clock wise** c) Any direction d) None of the above
36. 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
37. Max. length of brake pad is -
a. 330 mm **b) 400 mm** c) 350 mm d) 375 mm
38. Friction area of brake pad is -
a. 400 cm² b) 300 cm² c) 350mm d) 375 cm²
39. What is the diameter meter of brake disc?
a. 110 mm **b) 640 mm** c) 70 mm d) 125 mm
40. The brake disc fitted on a same axle at the distance is -
a. 1030 mm b) 1070 mm c) 1100 mm d) 1125 mm
41. Distance of brake disc from inner face of wheel is -
a. 195 mm **b) 175 mm** c) 250 mm d) 210 mm
42. How many type brakes system provided on LHB power car.
a. One **b) Two** c) Three d) Four
43. Hand brake are provided on LHB power cars know as
a. Parking brakes b) Emergency brakes c) Any of above
d) Flex ball remote control brakes
44. Hand brakes provided on no. of wheels is -
a. Only one **b) Any two** c) Any three of all d) Any of above
45. How many brake discs are provided on one axle?
a. One **b) Two** c) Three d) Fou
46. The Fins provided in between the brake discs for – a) To provided effective cooling during braking **b) To minimized weight of brake disc.**
c) To provided strength to break disc. d) To increase friction property of brake disc

BRAKE SYSTEM – 4...

47. How many brake discs are provided on one power car?
a. One b) **Eight** c) Three d) Four
48. How many brake cylinders are used in a LHB type coaches.
a. 1 b) 6 c. 12 **d) 8**
49. Outer diameter of main BP & FP pipe line is -
a. 20mm **b) 32 mm** c) 28 mm d) 40 mm
50. Outer diameter of main BC pipe line is -
a. 20 mm **b) 18 mm** c) 22 mm d) 10 mm
51. Brake caliper unit mounted on -
a. Bogie cross beam b) Bogie side frame
c) Wheel axles d) Any of above
52. By pass system is used in brake system when -
a. F.P pipe broken b) B.P Pipe broken
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c. Isolate the line from T- joint d) Any of above
54. What can do to prevent brake caliper unit jamming -
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a. CR of the coach not charged
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56. During drop test of the rake the maximum drop permitted in BP is
a. **0.2 kg/cm²** b) 0.3 kg/ cm² c) 2.0 kg/ cm² d) 0.6 kg/ cm²
57. During drop test of the rake the maximum drop permitted in FP is -
a. 0.2 kg/ cm² b) 0.6kg/ cm² c). 2.0 kg/ cm² d) 1.0 kg/ cm²
58. During service application the brakes should apply in -
a. 20 Sec. b) 30 Sec c) **3-5 Sec.** d) 15-20 Sec.
59. During full brake application the max. Pressure in brake cylinder is -
a. 1.6 Kg/Cm² **b) 3.0 Kg/Cm²** c) 3.8 Kg/Cm² d) 4.8 Kg/Cm²
60. Charging time of CR is -
a. 150 Sec. b) **160 Sec.** c) 140 Sec. d) 120 Sec.
61. After full brake application the brake should release with in.

- a. 10-20 Sec. b) 20-25 Sec. **c) 15-20 Sec.** d) 25- 30 Sec.

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. Vertical gathering range of CBC is -
a. 90 mm b) 95 mm c) 85 mm d) 100 mm
8. What is the purpose of supporting device?
a. To support CBC weight. b) To equalize vertical forces of CBC
c. Both a & b. d) None of these
9. During coupling operation the speed of vehicle should be -
a. 3-5 kmph **b) 2-3 kmph** c) 5 kmph. d) 6-7 kmph
10. 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
11. 'Jaw gap gauge test' is performed when knuckle in -
a. **Closed position** b) Open position c) a & b d) None of above
12. During check of Jaw gap the gauge should be -
a. Pass through the gap. b) **Must not pass through the gap**
c. None of above. d) Can not say
13. Gauging of CBC is done when -
a. **Knuckle in closed position.** b) Knuckle in open position.
c. Either a or b d) None of above
14. The max height of supporting device should be
a. 190 mm b) 187 mm **c) 187.5 mm** d) 189.5 mm
15. 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
16. Maximum torque is required for supporting device bolts.
a. 400 NM **b) 200 NM** c) 500 NM d) 550 NM
17. Maximum torque is required for base plate bolts.
a. 45 NM **b) 180-200NM** c) 500 ±25 NM d) 55±50 NM
18. Max. thickness of shim required for increase of buffer height -
a. 3 mm b) 5 mm c) 10 mm d) 15 mm

WRA & CDTS

1. What is the full form of CDTS?
 - a. Compact disk toilet system
 - b. Compress Disc tuning system
 - c. Control discharge toilet system**
 - d. None of these
2. What is the full form of WRA?
 - a. wire relay appliances
 - b. water raising apparatus**
 - c. Worker relief arrangement
 - d. None of these
3. What is the function of Solenoid valve/Magnetic Valve?
 - a. To create air pressure
 - b. This is part of PLC
 - c. To control the entry of Air pressure**
 - d. None of these.
4. How many openings 'Retention Tank' have -
 - a. One b) two
 - c. Three d) four
5. CDTS works on -
 - a. Automatically
 - b. Electrically & pneumatic pressure arrangement**

- c. Manually
 - d. None of these.
- 6. Opening of Retention tank activate by -
 - a. Double acting pneumatic cylinder
 - b. Automatically**
 - c. Manually
 - d. None of these
- 7. Upper opening of retention tank -
 - a. Partial open manually
 - b. Always open
 - c. Mostly closed
 - d. None**
- 8. Lower opening of retention tank opens -
 - a. When retention tank full of waste
 - b. Predetermined speed and predetermine no. of cycle of flush.**
 - c. It used to be always open.
 - d. None of these.
- 9. Function of pressurizer in CDTS -
 - a. Delivers Pressurised water to flush the waste**
 - b. To deliver the waste
 - c. To create maximum pressure for system
 - d. None of these
- 10. Function of P.L.C in CDTS -
 - a. To control the CDTS system
 - b. To record nos. of flush cycle as well as speed of vehicle**
 - c. To record speed of vehicle

- d. None of these.
11. CDTS system is based on RDSO specification -
- a. MDTS : 090 b) MDTS : 089
 - c. **NO. C 9906** d) None
12. Full form of W.S.P -
- a. Whole System Process
 - b. Whole system procedure
 - c. **Wheel sliding protection**
 - d. None of these.
13. Retention tank outlet liding discharge valve remains open -It always open
- a. It open when train is in running position
 - b. Small period of time its open (1 minute or less)
 - c. **None of these.**
14. Toilet bowl made up of -
- a. Cast Iron steel
 - b. IRSM 41
 - c. **Stainless steel AISI 304**
 - d. None
15. PLC works on -
- a. 240 V AC
 - b. 120 V AC
 - c. **24 V DC**
 - d. 24 V AC

16. CDTS P.L.C. having -

- a. **8 input & 4 output**
- b. 4 input & 4 output
- c. 4 input & 8 output
- d. None of these

17. Solenoid valve works

- a. In running condition of train
- b. In stationary condition of train
- c. **Based on signal from P.L.C.**
- d. None of these

18. Upper Flapper valve usually open when

- a. Train is in stationary condition
- b. Train is in running condition
- c. **Operation of flush button**
- d. None of these.

20 “Fail Safe Mode” of CDTS works -

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

21. In case of retention tank discharge cycle -

- a. Train speed should be less than 10 Km/h
- b. Train speed should be above 20 Km/h

c. Train speed should be above 30 Kmph

d. Train speed should be above 40 Kmph.

SUSPENSION & MISCELLANEOUS QUESTIONS

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. 3.9 t b) **5.0 t**
c. 4.5 t d) 6.0 t

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

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

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

24. Compressed length of lateral damper is -

- a. **400 mm** b) 360 ± 3 mm
- c. 240 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

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**

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

38. The anti toll bar must be checked for -

- a. Any wear ness b) Any cracks
- c. Free movement d) **All the above**

42. Wheel tapping is done to detect

- a. **Any hair crack** b) Any material flow
- c. Any wheel shelling d) All the 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

50. The NRV is provided in

- a. BC line b) BP line
- c. **FP line** d) All above

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

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

59. Why only one lateral damper is provided on each bogie -
- a. To reduce the total cost of coach
 - b. To reduce total weight of coach
 - c. To improve lateral damping of one side
 - d. It can control both side lateral movements**
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
62. For free movement of sliding and vestibule doors
- a. Oil should be provided on shaft**
 - b. Grease should be provided on shaft
 - c. Vaseline should be provided on shaft
 - d. Any of above
63. Curtains and Rexene seats provided on LHB coaches are
- a. Fiber made
 - b) Fire retardant**
 - c. Fire proof
 - d) All of above
64. What is the purpose to provide sensor on water tank?
- a. Availability of water
 - b. Capacity of water tank
 - c. Location of water tank
 - d. To provide signal to pump contro**
65. 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

66. 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**
67. 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
68. The dump valve works only during -
- a. Emergency braking
 - b. Service application**
 - c. Deference in speed of wheel
 - d. Deference in diameter of wheel
69. 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
70. 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

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**

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

90. 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

MAINTENANCE SCHEDULE

How many Maintenance Schedule are generally done in

1. primary Maintenance Depot.

One b) Two

Three d) None

2. Frequency of D1 Schedule is -

On Every Trip b) 7 days

15 days d) 30 days

3. Frequency of D3 Schedule is -

1 month $\pm$ 1 day b) 3 month $\pm$ 3 day

6 month $\pm$ 15 day d) 9 month $\pm$ 3 day

4. Intensive cleaning of coaches should be done in -

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

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

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 hand brake 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
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

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

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**

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 $\pm$ 30 days** b) 20 months $\pm$ 7 day
- c. 24 months $\pm$ 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 Km**

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

41. With respect to Kms, Frequency of SS-III is -

b. 10 Lakh Kms b) 15 Lakh Kms
24 Lakh Kms d) 20 Lakh Kms

42. With respect to Kms, Frequency of SS-III is -

c. 10 Lakh Kms b) 15 Lakh Kms
d. **24 Lakh Kms** d) 20 Lakh Kms