

Undergear (3 Phase loco)

1. How will you identify, the cock of Air dryer is open.
 - a. Cock should be parallel to pipe.
 - b. Cock should be vertical to pipe.
 - c. Cock should be lower side
 - d. Cock should be upper side.
2. What will you check in oil Damper.
 - a. No need to check Damper.
 - b. Check connecting bolts.
 - c. Experience jerk, in loco provided Damper.
 - d. All are correct statement.
3. What will you check in Axle holder.
 - a. There is no any damage.
 - b. Bolts are intact.
 - c. Both a & b
 - d. Only b.
4. Normal position of BP & FP in front of loco.
 - a. Should be closed.
 - b. Should be open
 - c. Should be close or open.
 - d. No need of this cock.
5. What will you check in link bar.
 - a. Tractor link flange bolt.
 - b. There is no creak in traction link bar.
 - c. Close of traction link bar.
 - d. Both a & b.
6. In WAG9 loco, parking brake is applied on which wheel nos.
 - a. Wheel no. 1, 4, 5
 - b. Wheel no. 2, 7
 - c. Wheel no. 2, 6, 7, 11
 - d. Wheel no. 1, 2, 3, 5
7. Wheel will you check on MCP.
 - a. Foundation bolt of MCP.
 - b. Tie with safety wire.
 - c. Keep BCCP off & check oil level with spy glass or Dip stick.
 - d. All of above.
8. Switch no. 159 is provided in loco for

 - a. Vigilance device
 - b. Parking brake
 - c. Throttle
 - d. Traction motor.

9. To apply parking brake Switch is to be pressed.
 - a. BPPB
 - b. BPCS
 - c. BPVR
 - d. ZBAN
10. To run in constant speed..... Switch is to be pressed.
 - a. BPPB
 - b. BPCS
 - c. BPVR
 - d. ZBAN

11. To reset vigilance switch is to be pressed.
 - a. BPPB
 - b. BPCS
 - c. BPVR
 - d. ZBAN
12. To keep in banking mode in three phase loco switch is to be pressed.
 - a. BPPB
 - b. BPCS
 - c. BPVR
 - d. ZBAN
13. To limit the tractive effort of 3 phase loco switch is to be pressed.
 - a. ZTEL
 - b. BPFL
 - c. BPEMS
 - d. PVCD
14. switch is provided in three phase loco to acknowledge vigilance in ALP side of driving cab.
 - a. BPVG
 - b. BZ-V-O-F
 - c. BLHO
 - d. BLCP
15. switch is to press in three phase loco to start flasher light.
 - a. ZTEL
 - b. BPFL
 - c. BPEMS
 - d. PVCD
16. In emergency to stop the train, to open DJ/VCB & also to lower the pantograph Switch is provided in three phase loco.
 - a. ZTEL
 - b. BPHL
 - c. BPEMS
 - d. PVCS
17. The switch is provided in LP side of 3 phase loco to acknowledge vigilance.
 - a. PVCD
 - b. BPVA
 - c. BPEMS
 - d. BPFL
18. Is provided on 'C' panel of driving desk in three phase loco to warn LP against vigilance, over speed and fire in machine room.
 - a. BPVG
 - b. BZ-V-O-F
 - c. BLHO
 - d. BLCA
19. To supply electric supply from 3 phase (WAP5) loco to complete train switch is provided.
 - a. BPVG
 - b. BZ-V-OF
 - c. BLHO
 - d. BLCP
20. To run the compressor in there phase loco Switch is provided.
 - a. BPVG
 - b. BZ-V-OF
 - c. BLHO
 - d. BLCP

21. Position of switch BLCP are :-
 a. 0, 1, 2, 3, 1.2, 1.3, 2.3, 1.2.3
22. To acknowledge the fault message displayed in the screen switch is to be operated.
 a. BPFA
 b. BPVG
 c. PVEF
 d. PSA
23. After applying brake in train if no brake is to be applied in loco proportionately, switch is to be operated.
 a. BPFA
 b. BPVG
 c. PVEF
 d. PSA
24. Put "TRUE" against correct sentence & "FALSE" against wrong answer applicable to 3 phase loco.
 a. ZBAN is used to maintain the constant speed of loco/train.
 b. BPPB is provided to apply & release the parking brake.
 c. BPCS is pressed to limit the speed & train/loco up to 15 kmph.
 d. To rest vigilance, switch BPVR is used.
 e. In emergency, to stop the train, to open VCB/DT & to lower the pantograph, BPEMS is provided.
 f. Switch PVCD is provided near ALP side, to acknowledge vigilance.
 g. PVCD is provided for loco pilot to acknowledge vigilance with help of foot.
 h. Panto selector switch is kept in SB-2 panel.
 i. If Panto selector switch is kept on '2' then Panto-1 will be isolated.
 j. If Panto selector switch is kept on '2' then Panto-2 will be isolated.
 k. If Panto selector switch is kept on '1' then Panto-1 will be in service.
 l. If BLPR is pressed from driving desk, then machine room light will glow.
 m. BPFC is to be pressed to glow flasher light irrespective of loco is in driving or cooling mode.
25. Match the column.
- | | |
|---------|--|
| 1. BLCP | A. Switch for head light. |
| 2. ZBAN | B. To limit the tractive effort within 300KN |
| 3. BLPR | C. Switch for constant speed. |
| 4. BPCS | D. Switch to start compressor |
| 5. ZTEL | E. |

1. In 3Ø loco, SS-04 belongs to sub system.

A. Traction bogie-1 B. Traction bogie-2 C. Main power D. Harmonic filter

2. In 3Ø loco, Machine room blowers & their scavenging blowers work in Mode(s).

A. Driving mode only B. Cooling mode only C. Off D. Driving mode & Cooling mode

3. In WAG-9 or WAP-7, location of air dryer is

A. Behind MCP-1 in left side B. Between two trucks C. Behind cattle guard-1 loco pilot side
D. Behind cattle guard-1 in ALP side

4. WAG-9 loco is provided with No. of direct brake cylinders and No. of parking brake cylinders.

A. 12 & 4 B. 12 & 12 C. 4 & 12 D. 12 & 6

5. In three Ø loco, if 'Catenary voltage out of limit' appears on screen, change fuse after lowering panto and try.

A. FL B. CCBA C. No need to Change D. Potential Transformer

6. In 3Ø MU locos, panto of leading loco and panto of trailing loco will raise.

A. Leading; Leading B. Leading; Trailing C. Trailing; Leading D. Trailing; Trailing

7. In 3Ø loco, SS-16 belongs to sub system.

A. Cab-2 B. Fire detection C. Memotel (Speedometer) D. Processor FLG-1

8. In 3Ø loco, normal position of panto selector switch is

A. Norm B. I C. II D. Auto

9. 3Ø loco is having No. of 3 phase auxiliary motors in loco under frame.

A. 2 B. 4 C. 12 D. 8

10. In 3Ø loco, for charging of BP pressure coc to be kept open.

A. A-8 B. 70 C. 74 D. 47

11. Location of Emergency stop push button switch in 3Ø loco is

A. In both cabs Panel A B. In both cabs Panel B C. In both cabs Panel C D. In both cabs Panel D

12. In 3 phase loco cab changing is to be done with in minutes otherwise CE will switch OFF.

A. 10 B. 0 C. 15 D. 20

13. While energizing 3Ø loco, if UBA meter is showing “0” and corridor lights also not glowing check, MCB No.

A.100 B.110 C.112 D.112.1

14. In 3Ø loco, when harmonic filter is isolated, speed of the train is restricted to

A.60 Kmph. B.40 Kmph. C.25 Kmph. D.No such restriction

15. In 3Ø loco, position of control Electronics (CE) during cab changing is

A.OFF B.ON C.Self hold mode D.None of the above

16. If speed of the train is increased more than than loco MPS, emergency brake will apply in 3Ø loco.

A.0.5% B.5% C.10% D.50%

17. In 3Ø loco, on moving BL key from ‘D’ to ‘OFF’ position, brakes will apply automatically.

A.Direct brakes B.Auto brakes C.Parking brakes D.All brakes

18. Three phase loco is having number of roof bars.

A.2 B.3 C.4 D.3+3

19. In 3Ø loco, SS-08 belongs to sub system.

A.Auxiliary converter No.1 B.Auxiliary converter No.2 C.Auxiliary converter No.3 D.Battery

20. To reset VCD in WAP-5 loco, wait forseconds.

A.0 B.160 C.240 D.120

21. In 3Ø loco,auxiliary motors works only in cooling mode.

A.All three Ø and single Ø motors B.All single Ø motors and MCP 1 & 2

C.Only single Ø motors & MCP D.None of the above

22. In three Ø loco potential transformer is connected to roof bar.

A.Middle B.Panto-1 C.Panto-2 D.None of the above

23. In 3Ø loco, continuous pressing of PSA for more than 60 seconds is called asmode.

A.VCD isolation B.Dead man C.VCD acknowledgement D.None of the above

24. While 3Ø loco working as banker, put on switch and close 70 cut out cock.

A.ZTEL B.ZBAN C.BLHO D.None of the above

25. In 3Ø loco, If ZBAN is switched ON in working cab, Happens.

A.BP pressure drops to 'O' B.FP pressure drops to 'O' C.BC pressure raises to 3.5 kg/cm²
D.None of the above

26.Parking brake is provided to wheels in WAG-9 loco.

A.1, 4, 5 & 8 B.2, 6, 7 & 11 C.2 & 11 D.1, 6, 7 & 12

27.Procedure for quick charging of BP pressure in 3Ø loco is

A.Press BPVG B.Keep A9 in release position C.Press PVEF D.Press 'Emergency stop' switch

28.In 3Ø loco provided with Knorr brake, Auto brake valve (A9) handle can be locked or unlocked in position .

A.Emergency B.Neutral C.Full service D.Minimum reduction

29.In 3Ø loco, to isolate panto No. 2 keep panto selector switch in position and close..... coc.

A.Auto , PAN-1 & 2 B. II , PAN-1 C. I , PAN-2 D. I or II , PAN-1 or 2

30.For resetting VCD in WAG 9 or WAP 7 loco, wait forseconds.

A.120 B.100 C.240 D.160

31.In proportional working, maximum brake cylinder pressure in WAG-9 loco iskg/cm²

A.1.8 kg/cm² B.2.5 kg/cm² C.3.5 kg/cm² D.5 kg/cm²

32.While working with WAP-7 or WAG-9 with light load, if Harmonic filter is isolated,work with normal speed after isolating

A.Auxiliary converter-1, B.Traction converter-1 & 2 C.Auxiliary converter-2 D.Traction converter-1

34.In 3Ø loco, SS-01 belongs to sub system.

A.Traction bogie-1 B.Traction bogie-2 C.Main power D.Harmonic filter

35.In 3Ø loco, SS-15 belongs to sub system.

A.Cab-2 B.Fire detection C.Memotel (Speedometer) D.Processor FLG-1

36.In 3Ø loco, SS-03 belongs to sub system.

A.Traction bogie-1 B.Traction bogie-2 C.Main power D.Harmonic filter

37.In 3Ø loco, to operate reverser ensure node information on screen and MR pressure should be more than 6.4 kg/cm².

A.FLG-504 B.FLG-550 C.FLG-570 D.FLG-590

38. In 3Ø loco, if vigilance penalty brakes are applied BP pressure drops to kg/cm².

A. 2 B. 2.5 to 3.0 C. 2.5 to 3.5 D. 0

39. In 3Ø loco, to isolate truck No.1 (traction converter-1), keep switch in position.

A. 154, I position B. 154, II position C. 154, Auto position D. 154, I & II position

40. In 3 phase knorr brake loco, rear cab mode switch position is

A. HLPR B. Lead C. Trail D. Test

41. 3Ø loco having number of single phase 415V auxiliary motors.

A. 12 B. 4 C. 8 D. 13

42. In 3Ø loco, Status code '00' means

A. Major fault in loco B. No sub system isolated C. Minor fault in loco D. No fault and No sub system isolated

43. Maximum permissible speed of WAG-9 loco is Kmph.

A. 100 B. 130 C. 140 D. 160

44. In 3Ø loco, SS-14 belongs to sub system.

A. Cab 1 B. Cab 2 C. Fire detection D. Auxiliaries in HB 2

45. In 3Ø loco, location of MCP-1 is

A. In machine room No.1 B. In machine room No.2 C. Below machine room No.2 D. Below machine room No.1

46. In 3Ø loco, positions of 154 Switch are

A. I, II B. NORM, I, II and I & II C. NORM D. 0 & 1

47. In 3Ø loco, to bring isolated sub system into service (system isolated sub system), procedure is

A. Switch OFF and switch ON CE B. Reset concerned MCB C. Close concerned COC D. Operate concerned rotating switch

48. In 3Ø loco, VCD is required to be acknowledged from kmph of speed.

A. 5 B. 1 C. 1.5 D. 15

9. In 3Ø loco, HOM is operated with key.

A. Solenoid valve No. 30 B. IG-68 C. IG-38 D. E-70

50. In 3Ø loco, SS-05 belongs to sub system.

A. Harmonic filter B. Hotel load C. Brake system D. Fire detection