

## QUESTION BANK PART - II OF ELCTRIC RS

1. Machine room blowers & their scavenging blowers works in Mode(s).
  - a. Driving mode only
  - b. Cooling mode only
  - c. Off
  - d. Driving mode & Cooling mode
2. Totally, three phase loco have number of additional COCs.
  - a. 4
  - b. 8
  - c. 16
  - d. 2
3. To isolate Auxiliary converter No. 2, open MCB No. located in SB2.
  - a. 127.22/1
  - b. 127.22/2
  - c. 127.22/3
  - d. 127.2
4. SS 05 belongs to sub system.
  - a. Harmonic filter
  - b. Hotel load
  - c. Battery
  - d. Batteries
5. When parking brakes are applied BP pressure drops up to kg/cm<sup>2</sup> in knorr brake loco.
  - a. 3 kg/cm<sup>2</sup>
  - b. 3.8 kg/cm<sup>2</sup>
  - c. 3.5 kg/cm<sup>2</sup>
  - d. 2 to 3 kg/cm<sup>2</sup>
6. Auto brake valve have..... number of positions in knorr brake loco.
  - a. 5
  - b. 6
  - c. 2
  - d. 4
7. WAP 7 loco is fitted with type of traction motors.
  - a. 3 Ø Asynchronous motor
  - b. TAO659
  - c. Hitachi
  - d. Hitachi or TAO659
8. WAG 9/ WAP 7 have number of (T) (T) rrr of br of brake blocks.
  - a. 12
  - b. 24
  - c. 48
  - d. 64
9. Continuous glowing of LSFI indicates.....
  - a. Priority 1 fault
  - b. One of the sub system is isolated
  - c. Priority 2 fault
  - d. Priority 1 fault or Priority

10. To isolate Auxiliary converter No. 3 open MCB No. .... located in SB2. ( )
- a. 127.22/1    b. 127.22/2  
c. 127.22/3    d. 127.3
11. Location of BPFL is..... ( )
- a. FLCU    b. Panel A  
c. Panel B    d. Panel C
12. During self hold mode, CE will remain in ON for..... minutes. ( )
- a. 15                    b. 10                    c. 20                    d. Will not switch
13. To move 3 Ø loco as live or dead ensure ..... brakes are released. (T)
- a. Parking brakes    b. Direct brakes  
c. Parking and Direct brakes    d. None of the above
14. When parking brakes are applied parking brake pressure gauge reads.....
- a. 0 Kg/cm<sup>2</sup>    b. 4 Kg/cm<sup>2</sup>  
c. 3.5 Kg/cm<sup>2</sup>    d. 6 Kg/cm<sup>2</sup>
15. Location of Emergency stop push button in three Ø loco is.....
- a. Panel A    b. Panel B  
c. Panel C    d. Panel D
16. Minimum voltage relay in three Ø loco is.....
- a. 78 in SB 1    b. 78 in SB 2  
c. 86 in SB 2    d. 86 in SB 1
17. WAP 7 have ..... number of dampers in primary suspension.
- a. 8    b. 12  
c. 16    d. 20
18. Specialty of knorr brake loco is.....
- a. There are no BE in loco    b. Though BE failed can work the train  
c. BE will not fail    d. None of the above
19. MPS of WAP 7 loco is.....
- a. 100 Km/h.    b. 120 Km/h.  
c. 130 Km/h.    d. 160 Km/h.
20. WAG 9/WAP 7 have ..... number of dampers.
- a. 16 Dampers.    b. 20 Dampers.  
c. 40 Dampers.    d. 10 Dampers.
21. Three phase loco is provided with ..... number of auxiliary converter(s). (T)



31. Battery voltage in three phase loco should be..... (T)
- a. Above 85 Volts
  - b. Above 90 Volts
  - c. Above 92 Volts
  - d. Above 110 Volts
32. Three phase loco is equipped with ..... number of battery boxes. (T)
- a. 2
  - b. 4
  - c. 6
  - d. 32
33. Horse power of WAP 7 is.....
- a. 5440 HP
  - b. 5000 HP
  - c. 8000 HP
  - d. 6120 HP
34. Three  $\emptyset$  loco is equipped with ..... number of single  $\emptyset$  auxiliary motors. (T)
- a. 12
  - b. 4
  - c. 8
  - d. 13
35. For CHBA, MCB No. .... is input and located in.....
- a. 100 & 110
  - b. 110 & 100
  - c. 112.1 & 110
  - d. 112 & 112.1
36. Over current relay in three  $\emptyset$  loco is.....
- a. 86
  - b. 70
  - c. 78
  - d. 74
37. If TFP oil temperature increased to .... $^{\circ}$ C for 10 seconds, loco will shutdown.
- a. 84 $^{\circ}$ C
  - b. 70 $^{\circ}$ C
  - c. 80 $^{\circ}$ C
  - d. 47 $^{\circ}$ C
38. OHE working range of three phase loco is.....KV. (T)
- a. 17.5 KV & 30 KV
  - b. 17 KV & 30 KV
  - c. 17.5 KV & 30.5 KV
  - d. 17 KV & 30.5 KV
39. SS 18 belongs to ..... sub system.
- a. Fire detection
  - b. Memotel
  - c. Processor FLG1
  - d. Processor FLG2
40. Location of CHBA is.....
- a. Machine room No.1
  - b. Machine room No.2
  - c. BUR 1
  - d. BUR 2

41. To close theDJ,ensure node information onscreen.
- |           |           |
|-----------|-----------|
| a. FLG504 | b. FLG550 |
| c.FLG570  | d. FLG590 |
42. To isolate panto No. 1 keep panto selectorswitchin position.
- |         |          |
|---------|----------|
| a. Auto | b. I     |
| c.II    | d. I &II |
43. In three Ø loco each battery box is provided with ..... numberofbatteries. (T)
- |       |      |
|-------|------|
| a. 13 | b.26 |
| c. 3  | d.39 |
44. Actions of emergency stop push button in three Ø loco are.....
- |                    |                 |
|--------------------|-----------------|
| a. VCB trips       | b. Panto lowers |
| c.TE/BEcomesto,,O“ | d. All theabove |
45. Procedure of resetting VCD in WAG 9 / WAP 7 loco is.....
- |                       |                        |
|-----------------------|------------------------|
| a. Keepthrottlein,,O“ | b. Wait for 160Seconds |
| c.PressBPVR           | d. All theabove        |
46. Location of MCP 2 in three Ø loco is.....
- |                     |                      |
|---------------------|----------------------|
| a. Locoleftside     | b. Loco rightside    |
| c. Machine roomNo.1 | d. Machine room No.2 |
47. SS 17belongsto sub system.
- |                  |                   |
|------------------|-------------------|
| a. Firedetection | b. Memotel        |
| c. ProcessorFLG1 | d. Processor FLG2 |
48. Procedure of isolating VCD is.....
- |               |                 |
|---------------|-----------------|
| a. 154in,,1“  | b. 154 in,,O“   |
| c.237.1in,,1“ | d. 237.1 in,,O“ |
49. CHBA is getting supplyfrom..... (T)
- |                            |                             |
|----------------------------|-----------------------------|
| a. Auxiliary converterNo.1 | b. Auxiliary converter No.2 |
| c. Auxiliary converterNo.3 | d. Traction converter No.1  |
50. If battery voltage drops below ..... volts, loco willshut down. (T)
- |             |            |
|-------------|------------|
| a. 82 Volts | b. 87Volts |
| c. 90 Volts | d. 92Volts |

51. For CHBA, MCB No. .... is output and located in.....
- a. 110; SB 1 b. 110; SB 2
- c. 100; HB 1 d. 100; HB 2
52. For isolation of Auxiliary converter No. 1 trip MCB No.....
- a. 127.22/1 inSB1 b. 127.22/1 in SB2
- c. 127.22/2 inSB 1 d. 127.22/2 in SB2
53. VCD is required to acknowledge afterattainingof      kmph of trainspeed.
- a. 5kmph b. 1 kmph c.1.5kmph d. 15 kmph
54. A Railway servant may be placed undersuspension:---
- (A) where a disciplinary action for imposition of minor penalty is pending
- (B) where a disciplinary action for imposition of major penalty is pending
- (C) Where a fact-finding inquiry is pending on a report against him.
- (D) Where a case against him in respect of a Civil Suit is pending in a Court of Law.
55. The headquarters of a railway servant under suspension shall be:---
- a. The place where the Divisional headquarters is located.
- b. The place where his family is residing
- c. His last place of duty.
- d. No station since he is not performing duties.
56. Find out the deductions which should not be made from the subsistence allowance:---
- a. Rent for quarters.
- b. Income Tax
- c. LIC Premia
- d. Subscription to PF
57. One of the following is not a major penalty. Find out.
- a. Reduction to lower service / post / grade for a specified period without loss of seniority.
- b. Reduction to lower service / post / grade for a specified period with loss of seniority.
- c. Reduction to lower stage in time scale of pay for 4 years (NR).
- d. Withholding of increment with recurring effect for a period of 6 years.
58. One of the following is an irregular penalty. Find out.
- a. Withholding of increment with recurring effect.
- b. Withholding of increment with loss of seniority.
- c. Withholding of increment exceeding 3 years.
- d. Withholding of increment not exceeding 6 months.
59. An Enquiring Authority appointed to hold an inquiry against a railway servant:-

- a. should be incharge supervisory official of the unit of chargedofficial.
- b. should be gazettedofficer.
- c. should be higher than the chargedofficial.
- d. should be one who is immediately in lower grade to Disciplinaryauthority.

60. Annexure III to SF 5 is:--

- a. A list of Articles ofCharges.
- b. Statements of imputations of misconduct in respect of each Article ofcharges.
- c. A list of relied upondocuments.
- d. A list of witnesses by whom charges are proposed to beproved.

61. The purpose of issuing a charge-sheet to a railway servant, is:---

- a. to warn him to be careful infuture.
- b. to afford him an opportunity to defend himself from theaccusation.
- c. Where minor penalty is imposed affecting the pensionarybenefits of the charged official.
- d. Where services of a railway servant are to be terminated in accordance with the terms of agreement.

retired railway servant may act as defencecounsel.

- (A) in not more than 2cases.
- (B) in not more than 5cases.
- (C) in any number ofcases.
- (D) in nocase.

62. Find out the Order against which Appeal does not lie:--

- a. an order of deemed suspension.
- b. an order of E.O. passed during the course of enquiry.
- c. an order made by theG.M.
- d. an order enhancing any penalty imposed byG.M.
- e.

63. "Charge" means - a railway servant's action:--

- (A)Not appreciated by the Controlling Officer.
- (B)of an out-standingnature.
- (C)violating a standing order and made known to him toexplain.
- (D)None of theabove.

64. Find out among the following the aspect which is vilotive of principles

of natural justice:--

- a. the offence alleged to have been committed by railway servant was made known to him.
- b. the charged official was given an opportunity to produce defence documents.
- c. the witnesses on behalf of D.A. were not allowed to be cross-examined by the charged employee.
- d. the I.O. appointed to hold enquiry was a disinterested person.

65. An officer who is competent to impose the penalty of "Compulsory Retirement" on a given railway servant, will also have the powers to impose:--

- a. any other penalty lower than CR only.
- b. any one of the minor penalties only.
- c. penalties of 'Removal' & 'Dismissal' also.
- d. no other penalty higher or lower than Compulsory Retirement.

66. The time allowed to charged official to submit his revision petition to the appropriate authority is:--

(T)

- a. 15 days
- b. 45 days
- c. 60 days
- d. 180 days

67. A witness who is summoned by Disciplinary Authority to prove the charges, deposes before I.O. in favour of charged official. Such a witness is called. (T)

- (A) Expert witness
- (B) Defence witness
- (C) Prosecution witness
- (D) Hostile witness
- (E) Irrelevant witness

68. One of the following is not a penalty under DAR. Find out.

- (A) Withholding of Privilege Passes
- (B) Withholding of Post-Retirement Passes
- (C) Withholding of PTOs
- (D) Withholding of Privilege Passes and PTOs

69. "Revision" of a penalty under Rule 25 of RS [D&A] Rules is applicable to:--

- a. All the minor penalties only
- b. All the major penalties only



- c. All the minor and major penalties
- d. Compulsory Retirement, Removal and Dismissal

70. Speaking order means

- a. Reasons recorded in support of decision taken by the Disciplinary Authority
- b. The memorandum communicating the penalty
  - c. The written statement of defence of the charged official
  - d. The report of the Inquiry Officer

71. Colour of crimping tool handle used for insulated type lug crimping in control cables?

- A) Metallic B) Green C) Yellow D) No colour

72. Type of die used for crimping of power cable?

- A) D-type
- B) Hexagonal small type
- C) U-type
- D) Hexagonal Big type

73. In DBR isolated loco which contact required specific attention during inspection?

- a. Traction contact
- b. Braking contact
- c. Both A & B
- d. None of the above

74. For attention of auxiliary interlocks which paper is used during inspection?

- a. Emery paper Grade 120
- b. Sand paper grade 80
- c. Polish paper grade 2000
- d. Polish paper grade 4000

75. For proper isolation of spare cable ELS/HWH has adopted a recent method of?

- a. Apply glass tape
- b. Apply black PVC tape
- c. Apply varnish
- d. Both A & C

76. Range of gap between main contact tip of C107 contactor?

- a. 6.5 to 7.5mm
- b. 7.5 to 8.5mm
- c. 7.5 to 9.5mm
- d. 6.5 to 8.5mm

77. Range of dip gap of drum type reverser?

- a. 1 - 1.5mm
- b. 1.5 - 2.0mm

- c. 1.2 - 1.8mm
- d. 1.5 - 1.8mm

**78.** Contact pressure of Fixed contact in drum typereverser?

- a) 10Kg
- b) 11 Kg
- c) 12Kg
- d) 13 Kg

**79.** In which inspection servomotor grease is required to be changed inreverser?

- a. IA
- b. IC
- c. Both IA &IC
- d. Grease conditional basis changingrequired

**80.** Chronological time setting of C-118 shouldbe?

- 81.** A. 3 sec
- B. 4 sec
- C. 4 sec
- D. 6 sec

**82.** Lateral play of core of C-118 contactor(EMtype)?

- a. 0.1-0.3 mm
- b. 0.1-0.4mm
- c. 0.3-0.4
- d. 0.2-0.4

**83.** Main contact gap of EP type C-118contactor?

- a. 21 - 23mm
- b. 16 - 18mm
- c. 21 - 25mm
- d. 16 - 20mm

**84.** In case of throttle failure, operation of which rotary switch is expected?

- a. 154
- b. 160
- c. 237.1
- d. 152

**85.** When Rotary switch 160 is made to position „0“?

- a. For shunting modeoperation
- b. To isolatebogie
- c. For Failure modeoperation
- d. To cut out vigilancedevice

**86.** Circuit breaker monitoringis

- a. 127.1/2
- b. 127.2/2
- c. 127.22/2

d. 127.11/2

**87.** Torque required for tightness of IP bolt of WAP 4 Tractionmotor?

- a. 35Kg
- b. 28Kg
- c. 20Kg
- d. None of theabove

**88.** Recommended Arc horn gap of WAP-4 Tractionmotor?

- a. 11.5 -  
13.5mm
- b. 11.5 -  
12.5mm
- c. 12.5 -  
14.5mm
- d. 11.5 -  
14.5mm

**89.** Condemn limit of diameter of WAP-4 Traction motorcommutator?

- a. 400mm
- b. 385 mm
- c. 390 mm
- d. 380mm

**90.** How much minimum pinion bedding is required in WAP-4TM?

- a. 80 %
- b. 85%
- c. 90%
- d. 98 %

**91.** What is the minimum brush holder spring pressure in WAP 4TM?

- a. 3.44 kgf +-10%
- b. 3.44 kgf +- 5%
- c. 2.88 kgf +-5%
- d. 2.88 kgf +-10%

**92.** Maximum permissible difference of resistance between two element of temperature sensor of WAP 7TM?

- a. 0.6ohm
- b. 0.4ohm
- c. 0.3ohm
- d. 0.1ohm

**93.** Gap between speed sensor & Ring of Hall effect speed sensor to bekept?

- a. 1.2mm

- b. 1.6 mm
  - c. 1.0 mm
  - d. 1.8mm
- 94.** Voltage rating of 6FRA6068 type tractionmotor?
- a) 2180V
  - b) 2800 V
  - c) 850 V
  - d) 630 v
- 95.** Type of grease used in WAP 7 tractionmotor?
- a. RR3
  - b. SHC120
  - c. 460 RR
  - d. Both A &B
- 96.** In one WAP 7 loco Traction motor maximum permissible phase to phase inductancevariation?
- a. 0.05mH
  - b. 0.005mH
  - c. 0.0015mH
  - d. 0.015mH
- 97.** How many type of rotor presently in use in WAP-7 Tractionmotor
- a. 3
  - b. 4
  - c. 5
  - d. 1
- 98.** Gear ration of WAP-7 Tractionmotor?
- a. 20:58
  - b. 23:58
  - c. 20:72
  - d. None of theabove
- 99.** For measuring Pinion travel WAP 7 loco Traction motor, Gap between pinion & collar of shaftshould be?
- a. 12 +- 0.1mm
  - b. 15 +- 0.1mm
  - c. 4 +- 1mm
  - d. None of the above
- 100.** How many blades are there in MVMT impeller?
- a. 12
  - b. 20
  - c. 24

d. All of theabove

**101.** In bearing nomenclature ZC3 indicates

- a. Ball bearing
- b. both sidesealed
- c. one sidesealed
- d. Both A & C

**102.** What is output rating of ARNO?

- a. 150KVA
- b. 140KVA
- c. 130KVA
- d. 120KVA

**103.** End cover dia of MR scavange & TM scavange blower is measured by?

- a. Insidemicrometer
- b. Verniercaliper
- c. Hand made guage
- d. Not being measure

**104.** Size of locking bolt in commutator end?

- a. 16 x 35
- b. 16 x 40
- c. 20 x 35
- d. 20 x 40

**105.** Size of bearing used in TM blower?

- a. 6206
- b. 6208
- c. 6306
- d. 6312

**106.** Dynamic balancing limit of MVMT?

- a. 4m/s
- b. 3m/s
- c. 5m/s
- d. 6m/s

**107.** What is the pressure switch setting in Schneider make VCB?

- a. 3.3 - 3.6Kg
- b. 4.0 - 4.6 Kg
- c. 3.3 – 4.6Kg
- d. None of theabove

**108.** Pressure regulator setting in Areva Make VCB?

- a. 4.5 +/- 0.1Kg

- b. 4.0 +- 0.5 Kg
- c. 5.5 - 6.0Kg
- d. 5.0 - 5.5Kg

**109.** What is the pressure switch setting in AAL/BTIL makeVCB?

- a. 3.3 -3.6Kg
- b. 4.0-4.6 Kg
- c. 3.3 – 4.6 Kg
- d. None of theabove

**110.** Pressure regulator setting in AAL/BT MakeVCB?

- a. 4.5 +- 0.1Kg
- b. 4.0 +- 0.5 Kg
- c. 5.5 - 6.0Kg
- d. 5.0 - 5.5Kg

**111.** What is setting of Q30relay?

- a. 790/710 VDC
- b. 250/200 VDC
- c. 215/150 VAC
- d. 790/710 VAC

**112.** What is the drum setting of QLMrelay?

- a. 8
- b. 8.5
- c. 9.0
- d. 9.5

**113.** Time delay provided in Q44Relay?

- a. 0.4sec
- b. 60 sec
- c. 0.65 sec
- d. 5sec

**114.** Time delay provided in Q118Relay?

- a. 0.4sec
- b. 60 sec
- c. 0.65 sec
- d. 5sec

**115.** Time delay provided in PR1Relay?

- a. 0.4sec
- b. 60 sec
- c. 0.65 sec
- d. 5sec

**116.** What is the setting of QVRHrelay?

- a. 50/42 mmWC
- b. 13/8 mmWC
- c. 20/14 mmWC
- d. None of theabove

**117.** What is the drop out voltage setting of MVRrelay?

- a. 110V
- b. 140V
- c. 180V
- d. 200V

**118.** What is the pressure setting of QPHrelay?

- a. 8.0- 9.5Kg
- b. 4.0 - 4.6 Kg
- c. 0.3 – 0.6Kg
- d. None of theabove

**119.** Specific gravity of electrolyte used in Ni-Cdbattery?

- a. 1.1
- b. 1.25
- c. 1.2
- d. 1.21

**120.** Name of electrolyte used in WAP-7batteries?

- a. KoH
- b. NaoH
- c. Nacl
- d. None of theabove

**121.** During capacity checking of WAP-4 batteries (Lead acid), what is rate of dischargekept?

- a. 10 A for 7.5hrs
- b. 15 A for 5.0hrs
- c. 15 A for 7.0hrs
- d. 25 A for 3.0hrs

**122.** What is limit of voltage below which a cell is rejected during capacitychecking?

- a. 1.5V
- b. 1.6V
- c. 1.7V
- d. 1.8 V

**123.** What is the passing limit of LA during leakage current test at 25KV?

- a. 50-100uA
- b. 500-1000 uA

- c. 25-50uA
- d. 10-15Ua

**124.** How many type of memories are there in speedometer?

- a. 1
- b. 2
- c. 3
- d. 4

**125.** Pick up voltage setting of Q20 relay?

- a. 790V
- b. 750V
- c. 730V
- d. 710 V

**126.** Relay used to measure differential current between TM 4 & 5?

- a. QRSI1
- b. QRSI2
- c. QD1
- d. QD 2

**127.** Lubricating oil used for control lever guide pin?

- a. RR3
- b. BBC909
- c. Transformer oil
- d. Both B & C

**128.** What is gap between CGR contact tips?

- a. 30 - 48mm
- b. 36 - 48mm
- c. 30 - 36mm
- d. 36 - 48mm

**129.** What is the range of contact pressure of CGR tips?

- a. 6.0 - 9kg
- b. 5.6 - 9kg
- c. 6.6 - 9kg
- d. 6.6 - 7.8kg

**130.** What is the minimum BDV value of used GRoil?

- a. 40KV
- b. 60KV
- c. 50KV
- d. 75KV



**131.** What should be the minimum spring height of GR contact roller spring after applying 6.2 kgload?

- a. 15.0mm
- b. 15.6 mm
- c. 15.3 mm
- d. 16.0mm

**132.** At what temperature resistance of solenoid valve coil is corrected?

- a. 10 degree
- b. 20 degree
- c. 30 degree
- d. 40 degree

**133.** What should be the minimum carbon impression to ensure proper bedding of reverser?

- a. 3 x 45mm
- b. 3 x 40mm
- c. 4 x 45mm
- d. 4 x 40mm

**134.** Recommended torque value for tightness of special bolt of insulating ring of GR?

- a. 14 – 15Nm
- b. 20 – 30 Nm
- c. 11 – 13 Nm
- d. 5 – 6Nm

**135.** Recommended torque value for tightness of Special nut & conical nut of GR?

- a. 14 – 15Nm
- b. 20 – 30 Nm
- c. 11 – 13Nm
- d. 5 – 6Nm

**136.** Standard gap to be kept in between Bushing tightness nut & connection tightness nut in WAP-7 loco transformer powerbushing?

- a. 3 – 5mm
- b. 4 – 5mm
- c. 3 – 6mm
- d. 4 – 6mm

**137.** Recommended torque for tightening of WAP-7 loco transformer bushingnut?

- a. 100 Nm
- b. 130 Nm
- c. 150 Nm
- d. 180 Nm

**138.** For WAP – 7 loco radiator cleaning, what is the recommended pressure for Compressedair?

- a. 4 – 7kg
- b. 5 – 7Kg

- c. 4 – 6Kg
- d. 5 – 6kg

**139.** What should be the water temperature for radiator cleaning in WAP-7loco?

- a. 50 degreeC
- b. 60 degreeC
- c. 70 degreeC
- d. 80 degreeC

**140.** Recommended air flow to be ensured just below the radiator of WAP-7loco?

- a. 6 m/s
- b. 6.5m/s
- c. 7 m/s
- d. 8m/s

**141.** Recommended gap between Intermediate gear & Guidepin?

- a. 0.3 -0.7mm
- b. 0.4- 0.7mm
- c. 0.3 – 0.6mm
- d. 0.4 – 0.6mm

**142.** Oil used in traction converter of GTO basedloco?

- a. APARoil
- b. shell dylaDx
- c. 460 RR
- d. None of theabove

**143.** What should be the level of TFP oil in winter in WAP 4loco?

- a. 2” above minmark
- b. 1” above minmark
- c. 3” above minmark
- d. 4” above minmark

**144.** What is the level of GR oil to be maintained inwinter?

- a. 10 -20 degree Cmark
- b. 20 - 30 degree Cmark
- c. 30 - 40 degree Cmark
- d. 40 – 50 degree Cmark

**145.** In ARNO based WAP-4 locomotive both auxiliary windings are connectedin?

- a. Series
- b. Parallel
- c. Any one among Series orparallel

- d. None of theabove
- 146.** In ARNO based WAP-4 locomotive additional link to be inbetween?
- a. a0 &a7
  - b. a1 & a8
  - c. Both A &B
  - d. None of theabove
- 147.** For safe welding earthing clamp should be fixed at a distanceof?
- a. 0.5 m
  - b. 1 m
  - c. 1.5 m
  - d. None of theabove
- 148.** The type of motor used in EOT crane at ELS/HWHis?
- a. Squirrel cage inductionmotor
  - b. Slip ring inductionmotor
  - c. DC seriesmotor
  - d. DC shuntmotor
- 149.** In WAP 7 locomotive what type of motor isused?
- a. DC shuntmotor
  - b. Slip ring inductionmotor
  - c. DC seriesmotor
  - d. Squirrel cage inductionmotor
- 150.** What is the mechanical safety device used in EOTcrane?
- a. Overloadrelay
  - b. Single phasepreventer
  - c. Limit switch
  - d. No mechanical protection provided
- 151.** What are the electrical safety device used in EOTcrane?
- a. Overloadrelay
  - b. Single phasepreventer
  - c. Limit switch
  - d. No electrical protectionprovided
- 152.** Brake power testing of 50 ton EOT crane can be doneby?
- a. By lifting abogie
  - b. By lifting a motorisedbogie
  - c. By lifting aloco
  - d. By lifting a transformer
- 153.** Now a days the conventional main switch of LT panel is replaced by new typeof?

- a. MCCB
- b. MCB
- c. ACB
- d. OCB

**154.** The insert used for loco turning of locomotive is of?

- a. 17mm
- b. 19mm
- c. 21mm
- d. 24mm

**155.** The schedule of PU paintingis?

- a. 1.5years
- b. 2.0years
- c. 3.0years
- d. 4.0years

**156.** Backfire protection of welding gas can be dueto?

- a. Defect of gas cuttingtorch
- b. Defect of torch
- c. Defect of pipe
- d. All of theabove

**157.** The minimum wire rope deum strand damaged in steel wire rope which can allow safe runningis?

- a. 10 % of wire ropedia
- b. 15 % of wire ropedia
- c. 25 % of wire ropedia
- d. 50 % of wire ropedia

**158.** Before going inside of a loco for lococleaning?

- a. Staff should see the loco in tripcondition
- b. Battery should beoff
- c. Both A &B
- d. None of theabove

**159.** Before welding of WAP 7 loco it should be ensuredthat?

- a. Battery should beoff
- b. Panto should bedown
- c. Earthing clamp should be at minimum position ofwelding
- d. All of theabove

**160.** The reverse operation of LT motion of EOT crane should be avoidedfor?

- a. Damage ofmotor
- b. Damage in LT gear boxcoupling
- c. Damage in gear &pinion

d. Damage in load

**161.** Filter cleaning of WAP 7 loco is being done in?

- a. IA
- b. IB
- c. IC
- d. Every inspection

**162.** Length of WAP 4 axle?

- a. 2440m
- b. 2438m
- c. 2439m
- d. 2442m

**163.** In NELA (Near end law angle) UFD machine is calibrated for?

- a. 2500m
- b. 1000m
- c. 500 m
- d. 1500 m

**164.** Angle probe required for WAP 7 axle are?

- a. 12.5°, 15°, 10°
- b. 15°, 17.5°, 12.5°
- c. 10°, 12.5°
- d.

10°, 17.5°

**165.** Frequency of normal probe is?

- a. 1.25MHz
- b. 2.25MHz
- c. 2.5MHz
- d. 2.0MHz

**166.** Whole length of axle is tested by

- a. Trace delay scanning
- b. NELA scanning
- c. Far End scanning
- d. None of the above

**167.** Back Peak signal is seen during UST of WAP 4 axle?

- a. 8.5 division
- b. 8.9 division

- c. 9.8division
- d. 9.7division

**168.** In dissolve gas analysis H<sub>2</sub> is detectedby?

- a. TCD
- b. ECD
- c. FID
- d. PID

**169.** Harmful gases evolve by celluloid decompositionare?

- a. H<sub>2</sub> , C<sub>2</sub> H<sub>4</sub>
- b. CH<sub>4</sub> , C<sub>2</sub> H<sub>4</sub>
- c. CO , C<sub>2</sub>H<sub>6</sub>
- d. CO ,CO<sub>2</sub>

**170.** DGA is done tofind?

- a. Crack  
inCore
- b. Incipient fault
- c. Any mechanicaldamage
- d. None ofthese

**171.** DGA of transformer oil is doneby?

- a. Spectography
- b. Gaschromatography
- c. Seisomograph
- d. None of theabove

**172.** Which of the following is destrutivetest?

- a. DPT
- b. MPT
- c. UST
- d. Aciditytest

**173.** MPT (magnetic particle test ) is doneon?

- a. Rubbermaterial
- b. Aluminiummaterial
- c. Coppermaterial
- d. Ferro magneticmaterial

**174.** Sub surface (Upto 3 mm) crack is detectedby?

- a. DPT
- b. MPT

- c. UST
- d. None of the above

175. Permissible limit of ferrous content in metal content of grease?

- a. 0.1 gm/100 gm sample
- b. 0.2 gm/100 gm sample
- c. 0.25 gm/100 gm sample
- d. 0.30 gm/100 gm sample

176. Which of the following probe is used in coarse grained axle?

- a. 2.0 MHz
- b. 2.5 MHz
- c. 1.25 MHz
- d. None of the above

177. Internal crack below which wavelength cannot be detected by FE & NELA scanning?

- a. Below  $\frac{1}{3}$  rd wavelength
- b. Below  $\frac{1}{2}$  rd wavelength
- c. Below  $\frac{3}{4}$  rd wavelength
- d. none of the above

178. Generally fatigue crack is develop in the following part of axle?

- a. Journal
- b. Body
- c. Gear seat
- d. none of these

179. Function of probe is?

- a. Energy transmission
- b. Energy Conduction
- c. Energy correction
- d. Energy conversion

180. In electric locomotives, Hand brake chain is connected with the lever of wheel no.?

- a. 12
- b. 01
- c. 08
- d. 02

181. Condemning diameter of wheel of WAP-7 loco?

- a. 1012 mm
- b. 1052 mm
- c. 1016 mm
- d. 1097 mm

182. Flexicoil mark – I steel casting bogies are used in?

- a. WAG7
- b. WAP4
- c. WAM4
- d. WAP 7

**183.** No. of traction/aclathan housing used in WAP -7loco?

- a. 02
- b. 04
- c. 06
- d. 08

**184.** Gear ration in WAP-7 locois?

- a. 20:72
- b. 23:58
- c. 23:72
- d. 20:58
- e.

**185.** Service limit of guage width of wheels on same axleis?

- a. 1595 to 1599mm
- b. 1595.5 to 1599mm
- c. 1596 to 1599mm
- d. 1596.5 to 1599mm

**186.** Standard piston stroke in WAP-4 locois?

- a. 78 to 88mm
- b. 107 to 117mm
- c. 102 to 119mm
- d. 68 to 78mm

**187.** New & condemning limit of L-type composite brake blocks arerespectively?

- a. 55 mm,15mm
- b. 55 mm, 10mm
- c. 35 mm, 10mm
- d. 35 mm, 15mm

**188.** The clearance between outer connecting strap of brake pull rod & wheel face in WAP-4 locois?

- a. 30.5mm
- b. 32.5 mm
- c. 21.5 mm
- d. 31.5 mm

**189.** Which class of electrode is used for welding of manganese steelliner?

- a. E2
- b. N3
- c. M5
- d. K

**190.** Spheriblock of torque arm must be replaced if rubber crack is morethan?

- a. 90 degree
- b. 180 degree
- c. 270 degree



d. degree

**191.** Gap between outer thrust collar & inner thrust collar in end axle box of Wap-4 loco is maintained?

- a. 4.5 mm to 8.5mm
- b. 4.5 mm to 6.5mm
- c. 3.5 mm to 6.5mm
- d. 4.0 mm to 6.5mm

**192.** Maximum variation of CBC height between locomotive & adjacent coach is?

- a. 65mm
- b. 85mm
- c. 55mm
- d. 75 mm

**193.** For fixing of traction motor with MSU in WAP4 loco bolt used is?

- a. M 36 X100
- b. M 24 X 110
- c. M 36 X110
- d. M 24 X 100

**194.** Vertical play of end brake hanger in WAP4 brake gear should not be more than?

- a. 08mm
- b. 10mm
- c. 06mm
- d. 09 mm

**195.** Standard CBC height from rail level?

- a. 1030 to 1105mm
- b. 1090 to 1110mm
- c. 1030 to 1090mm
- d. 1040 to 1105mm

**196.** Rail guard height from Rail level for WAP4 loco is?

- a. 112 to 119mm
- b. 102 to 119mm
- c. 106 to 119mm
- d. 104 to 119mm

**197.** Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?

- a. 5mm
- b. 3mm
- c. 6mm
- d. 8mm

**198.** Maximum limit of metal content allowed in axle box for 100 gram grease sample?

- a. 0.25gm

- b. 0.20gm
- c. 0.30gm
- d. 0.15gm

**199.** Helical insert IN provided into helical tapped hole of axle box cover on axle boxnos?

- a. 2,5,8,11
- b. 1,6,7,12
- c. 3,4,9,10
- d. 1,2,11,12

**200.** Oil used in WAP-7 gearcase?

- a. Shell gadus
- b. RR460
- c. RR3
- d. Shell dylaDx

**201.** Condemning diameter of wheel of WAP-7loco?

- a. 1012mm
- b. 1052mm
- c. 1016mm
- d. 1097 mm

**202.** Flexicoil mark – I steel casting bogies are usedin?

- a. WAG7
- b. WAP7
- c. WAM 4
- d. WAP4

**203.** Grease used in WAP -7 axlebox?

- a. Shell gadus
- b. RR460
- c. RR3
- d. Shell dylaDx

**204.** No. of teeth in WAP-7 bullgear?

- a. 72
- b. 58
- c. 20
- d. 23

**205.** Depth of spheriblockzig used in TM torquesupport?

- a. 2mm
- b. 4mm
- c. 5mm
- d. 6mm

**206.** Height of sandwich rubber mounting pad in newcondition?

- a. 304mm

- b. 308 mm
  - c. 312 mm
  - d. 315mm
- 207.** Tightness torque of WAP 7 MSU bolt?
- a. 1000N-m
  - b. 1260N-m
  - c. 1400N-m
  - d. 1560n-m
- 208.** Size of WAP 4 axle box coverstud?
- a. M 20 x40
  - b. M 22 x 50
  - c. M 22 x 40
  - d. M 20 x50
- 209.** Which class of electrode is used for welding of manganese steelliner?
- a. E2
  - b. N3
  - c. M5
  - d. K
- 210.** Spheriblock of torque arm must be replaced if rubber crack is morethan?
- a. 90 degree
  - b. 180 degree
  - c. 270 degree
  - d. 120degree
- 211.** Which class of electrode is used for welding of Bogie frame &bolster?
- a. E2
  - b. N3
  - c. M5
  - d. K
- 212.** Tightness torque of WAP 7 axle clamping plate fixing socket capscrew?
- a. 250N-m
  - b. 280N-m
  - c. 300N-m
  - d. 320N-m
- 213.** For fixing of traction motor with MSU in WAP4 loco bolt usedis?
- a. M 36 X100
  - b. M 24 X110
  - c. M 36 X110
  - d. M 24 X100
- 214.** Size of WAP 7 axle journaldiameter?
- a. 150.000 to150.068
  - b. 150.000 to150.043
  - c. 150.043 to 150.068

d. 105.043 to 150.072

**215.** Spheriblock of axle guide rod must be replaced if rubber crack is more than?

- A) 90 degree
- B) 180 degree
- C) 270 degree
- D) 120 degree

**216.** In WAP 7 loco axle housing bore dia should not be less than?

- a. 250.000mm
- b. 250.023mm
- c. 250.046mm
- d. 250.078mm

**217.** Capacity of crane used for heavy lifting of locomotive?

- A) 15 Ton
- B) 25 Ton
- C) 40 Ton
- D) 50 Ton

**218.** Grease used in Axle tube of WAP 7 loco?

- A) Shell gadus
- B) 460 RR
- C) SHC120
- D) RR3

**219.** Type of bogie used in WAP 7 locomotive?

- A) Casting
- B) Casting & fabricated mix
- C) Fabricated
- D) none of the above

**220.** Contact pressure of pantograph with OHE contact wire?

- A) 5 Kg
- B) 6kg
- C) 7kg
- D) 8kg

**221.** Gap of ET-1 to be adjusted at?

- A) 90mm
- B) 70mm
- C) 200mm
- D) 210 mm

**222.** Maximum height of pantograph should be limited at?

- A) 2 m
- B) 2.5 m
- C) 1.75 m
- D) 1.5 m

**223.** How much transverse deflection is allowed in pantograph by applying 30 kg at a height of 2m?

- A) 10 mm on each side
- B) 30 mm on each side
- C) 15 mm on each side

D) None of the above

224. Total no. of roof line insulator used in WAP 7 locomotive?

- A) 8
- B) 5
- C) 9
- D) 4

225. Tightening torque of carbon strip fixing bolt?

- A) 1.5 kg-m
- B) 2.5 kg-m
- C) 3.0 kg-m
- D) 5.0 kg-m

226. Swivel angle of pantograph pan should be?

- A) 5 ± 1 degree
- B) 6 ± 1 degree
- C) 7 ± 1 degree
- D) 8 ± 1 degree

227. Condemning limit of thickness of carbon strip?

- A) 3.5 mm
- B) 4.0 mm
- C) 4.5 mm
- D) 5.0 mm

228. Rising time pantograph to be adjusted at?

- A) 0-6 sec
- B) 0-10 sec
- C) 5-10 sec
- D) 6-10 sec

229. Lowering time pantograph to be adjusted at?

- A) Up to 6 sec
- B) Up to 10 sec
- C) between 5-10 sec
- D) between 6-10 sec

230. What is the maximum permissible speed of IR-03H type pantograph?

- A) 130 kmph
- B) 140 kmph
- C) 200 kmph
- D) 250 kmph

231. What is maximum current rating of pantograph?

- A) 300 A
- B) 400 A
- C) 500 A
- D) 150 A

232. Weight of CO<sub>2</sub> gas in CO<sub>2</sub> gas big cylinder in WAP 7 locomotive?

- A) 5 kg
- B) 40 kg
- C) 22.5 kg
- D) 2 kg

233. Which chemical is used in DCP type fire extinguisher?

- A) Sodium carbonate
- B) Sodium bicarbonate

C) Sodiumhydroxide

D) None of theabove

**234.** Lubricant used in plunger box of pantograph?

A) SP-78

B) Servo gem-2

C) Vaseline

D) Talpa -40

**235.** Co2 cartidge in 5 kg DCP type fire extinguisher is required to be changed in case of cartidge weight is ..... less than actual weight ?

A) 10gm

B) 12gm

C) 15gm

D) 20 gm

**236.** In WAP 7 loco axle housing bore dia should not be less than?

A) 250.000mm B) 250.023mm

C) 250.046mm D) 250.078mm

**237.** Capacity of crane used for heavy lifting of locomotive?

A) 15Ton B) 25Ton

C) 40Ton D) 50Ton

**238.** Grease used in Axle tube of WAP 7 loco?

A) Shell gadus B) 460 RR

C) SHC120 D) RR 3

**239.** Type of bogie used in WAP 7 locomotive?

A) Casting

B) Casting & fabricated mix

C) Fabricated

D) none of theabove

**240.** Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?

A) 6min

B) 7min

C) 8min

D) 9min

**241.** Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?

A) 90min

B) 100min

C) 120min

D) 200min

**242.** Application time of SA9?

A) 5-8sec

B) 6-9sec

C) 6-10sec

D) 5-10sec

**243.** Release time of A9?

A) 6-9sec

B) 9-13sec

C) 10-15sec

D) None of theabove

**244.** Setting of MR reservoir safety valve in WAP 4loco?

- A) 10kg/cm<sup>2</sup>
- B) 10.5kg/cm<sup>2</sup>
- C) 11kg/cm<sup>2</sup>
- D) 11.5kg/cm<sup>2</sup>

**245.** How many position in A9 of WAP4loco?

- A)2
- B) 5
- C) 6
- D) None of theabove

**246.** Torque tightness of CP foundationbolt?

- A) 180Nm
- B) 210 Nm
- C) 200 Nm
- D) 195 Nm

**247.** BP pressure of WAP 7 loco in release position ofA9?

- A) 3.5kg
- B) 4.6kg
- C) 5.6kg
- D) 5.0kg

**248.** How many types of card used in E-70 brakesystem?

- A)5
- B) 4
- C) 6
- D) 7

**249.** If A9 of cab2 is defective which LED should glow in control card?

- A) LED no. 1
- B) LED no.2
- C) LED no.3
- D) LED no.1&2

**250.** Baby pressure required for Pantoraising?

- A) 4.5kg
- B) 5.0kg
- C) 5.4kg
- D) 5.5kg

**251.** In which position of selector switch “Configuration mismatch” message appears inlocomotive with CCB brakesystem?

- A) CAB 1 in LEAD & CAB2 inLEAD
- B) CAB 1 in TRAIL & CAB 2 inTRAIL
- C) CAB 1 in LEAD & CAB 2 inTRAIL
- D) Both 1 &2

**252.** Setting of limiting valve in A-9 of Wap-7locomotive?

- A) 1.8kg
- B) 2.5kg

C) 3.0kg

D) 3.5 kg

**253.** Minimum no. of D-shackle should be used in Compressor safety sling?

A) 2

B) 4

C) 3

D) 5

**254.** If regenerating braking fails pneumatic brake applied through?

A) PSCard B) control card

C) Blender card D) None of the above

**255.** WAP-4 locomotive with how many no. of reservoir are used in Duronto exp?

A) 4

B) 5

C) 3

D) 6

**256.** How many types of coupling used in compressor?

A) 1 B) 2

C) 3 D) 4

**257.** Which mode is used for BP leakage test in CCB brake system fitted locomotive?

A) Test mode

B) Helper mode

C) Banking mode

D) Normal mode

**258.** Which oil is used in compressor lubrication?

A) Shell gadus B) 460 RR

C) Servopress 150 D) Molykot

**259.** When air dryer in service CP time increase by?

A) 10 % B) 15%

C) 20% D) 25 %

**260.** Total no. of loco holding of ELS/HWH on date?

A) 149 B) 150

C) 154 D) 156

**261.** What type of traction motor used in WAP -4 locomotive?

A) DC shunt motor

B) AC induction motor

C) DC series motor

D) AC slip ring induction motor

**262.** Time gap between one IOH to MOH of WAP 7 locomotive?

A) 1.5 years B) 3 years

C) 2 years D) 4 years

**263.** In WAP 4 locomotive TR related to?

A) Traction B) Transformer

C) Training register D) Relay panel

**264.** CTF stands for

A) Traction braking reverser B) Control traction failure

C) Forward traction control D) None of the above

**265.** Abbreviation of reverser is?

A) „R

“B) „S”



C),,J“

D) ,,MP“

266. In shed area shunting is done by?

- A) LP
- B) ET
- C) Pointsman
- D) ALP

267. Generally minor scheduled inspections are done under?

- A) OHE charged condition in inspection pit
- B) Unwired section of inspection pit
- C) By isolating OHE in inspection pit
- D) By isolating OHE & proper earthing of OHE in inspection pit

268. Capacity of transformer used in WAP 4 locomotive?

- A) 5400 KVA
- B) 6500 KVA
- C) 7500 KVA
- D) 7775 KVA

269. Individual TM can be isolated in?

- A) GTO based WAP 7 locos
- B) IGBT based WAP 7 locos
- C) Both A & B
- D) None of the above

270. Periodicity of IC of WAP 7 locomotives is?

- A) 90 days
- B) 180 days
- C) 270 days
- D) 120 days

271. PSA switch stands for?

- A) Brake elimination
- B) Sanding
- C) Pneumatic control
- D) Vigilance

272. SF 11 stands for?

- A) Confidential
- B) Warning
- C) Minor penalty chargesheet
- D) Major penalty chargesheet

273. In WAP 4 locos name of EM contactor panel?

- A) BA panel
- B) SB panel
- C) TK panel
- D) EM panel

274. After POH/MTR which schedule is carried out?

- A) IA
- B) IB
- C) IC
- D) IC0

275. Hotel load indicates?

- A) Lighting & Fan load in coaches
- B) Air conditioning in coaches
- C) Pantry car load
- D) All above

- 276.** What is the maximum speed of WAP 7 loco?
- A) 110KMPH
  - B) 130KMPH
  - C) 140KMPH
  - D) 160 KMPH
- 277.** PR stands for?
- A) Progression
  - B) Headlight
  - C) Primary resistance
  - D) Permanent residual
- 278.** Periodicity of MTR is?
- A) 6 years
  - B) 12 years
  - C) 18 years
  - D) 15 years
- 279.** In WAP 4, the first letter "W" indicates?
- A) Passenger loco
  - B) AC traction
  - C) Series of locomotive
  - D) Broad gauge
- 280.** What is the CT ratio used in QLM circuit of WAP 4 Loco?
- A) 200/5 B) 250/5  
C) 500/5 D) 1000/5
- 281.** What is voltage & current rating of secondary winding of WAP 7 loco transformer?
- A) 1269 V, 1154A
  - B) 1142 V, 1154A
  - C) 1142 V, 1269A
  - D) 1269 V, 1142A
- 282.** Maximum axle load of WAP 7 loco is?
- A) 18.8 ton
  - B) 19.5 ton
  - C) 20.5 ton
  - D) 21.8 ton
- 283.** What is the free height of secondary spring used in WAP 7 loco in mm?
- A) 683
  - B) 720
  - C) 733
  - D) 742
- 284.** How many IGBTs are used in one traction converter?
- A) 28
  - B) 30
  - C) 36
  - D) None of the above is correct

285. Harmonic filter winding used in WAP 7 locomotive is used to eliminate?
- A) 3<sup>rd</sup> harmonic
  - B) 5<sup>th</sup> harmonic
  - C) 7<sup>th</sup> harmonic
  - D) 4<sup>th</sup> harmonic
286. At the time of starting a train with WAP 7 loco, distribution of power between bogies?
- A) Equal in both bogies
  - B) More in driving bogie
  - C) More in rear bogie
  - D) None of the above
287. In WAP 7 loco which type of control is used in Lineside?
- A) Rectifier control
  - B) Booster Chopper control
  - C) Inverter control
  - D) Any of the above
288. In VVVF drive, if Speed of a squirrel cage induction motor is more than the rated speed, which statement below is incorrect?
- A) Frequency more than rated
  - B) Voltage more than rated
  - C) Output torque is less than rated
  - D) All of the above
289. Range of pressure sensor used to measure transformer oil pressure?
- A) 0-2 bar
  - B) 0- 4 bar
  - C) 0-3 bar
  - D) none of the above
290. What is the purpose of bend card?
- A) For smooth operation of pneumatic brake
  - B) To apply pneumatic brake in case regenerative brake fails
  - C) For overcharging of locomotive
  - D) None of the above
291. Store at ELS/HWH is a?
- A) Ordinary store
  - B) Custody store
  - C) Emergency store
  - D) Imprest store
292. LC circuit provided parallel to DC link capacitor in WAP 7 loco traction converter is tuned at?
- A) 50 Hz
  - B) 100 Hz
  - C) 150 Hz
  - D) 200 Hz
293. Maximum time limit for a SF-5 enquiry is?
- A) 30 days
  - B) 60 days
  - C) 90 days
  - D) 180 days

294. Closing time of VCB is normally found?  
 A) Within 100ms  
 B) 100- 200ms  
 C) 200-400ms  
 D) More than 400ms
295. In HOG fitted loco, Main purpose of two 110 Volt control pins in IV coupler is?  
 A) To detect any fault in power car  
 B) To detect any fault in Hotel load converter  
 C) To check the continuity of entire circuit  
 D) Those pins are not required & can be removed
296. For protection of small auxiliary motor which type of MCB used?  
 A) Type B  
 B) Type C  
 C) Type D  
 D) Type K
297. What type of coolant in traction converter of IGBT based locomotive should not be used?  
 A) Organic acid technology  
 B) Hybrid organic acid technology  
 C) Inorganic acid technology  
 D) Non of the above
298. Which wire is used to rewind the traction motor used in WAP 7 locomotive?  
 A) Nickel coated copper wire  
 B) Corona copper wire  
 C) Normal copper wire  
 D) Zirconium copper wire
299. What is the RGCP setting in WAP 4 loco?  
 A) 8 – 10.5kg  
 B) 8 – 10.0kg  
 C) 8.5 – 10.0kg  
 D) 8.0 – 9.5 kg
300. What is the charging voltage of battery in WAP 4 loco?  
 A) 110V  
 B) 105V  
 C) 115V  
 D) 100 V
301. For dead movement of WAP 7 loco cock no. 74 to be kept at?  
 A) Open  
 B) Close  
 C) Any position  
 D) None of the above
302. Limit of MR without brake air leakage?  
 A) 250 gm/5min  
 B) 1500 gm/5min  
 C) 1000 gm/5min  
 D) 700 gm/5min

- 303.** In WAP 7 loco how many power cable connected in one Tractionmotor  
 A) 2 B) 3  
 C) 4 D) None of the above
- 304.** Sander is provided in locomotive to prevent?  
 A) Automatic movement of loco  
 B) Wheel slipping  
 C) Wheel skidding  
 D) None of the above
- 305.** Standard piston stroke in WAP-4 loco is?  
 A) 78 to 88mm  
 B) 107 to 117mm  
 C) 102 to 119mm  
 D) 68 to 78mm
- 306.** BP pressure of WAP 7 loco in release position of A9?  
 A) 3.5kg  
 B) 4.6kg  
 C) 5.6kg  
 D) 5.0kg
- 307.** Standard piston stroke in WAP-7 loco is?  
 A) 78 to 88mm  
 B) 107 to 117mm  
 C) 102 to 119mm  
 D) 68 to 78mm
- 308.** Total clearance between brake block & wheel face in WAP-4 loco is?  
 A) 10mm  
 B) 15mm  
 C) 20mm  
 D) None of the above
- 309.** What is QLM relay?  
 A) Aux circuit earthing relay  
 B) Main circuit earthing relay  
 C) Traction motor overvoltage relay  
 D) High voltage overcurrent relay
- 310.** If HMCS 2 on position 2 then which motor is isolated?  
 A) TM 4 B) TM 1  
 C) TM 5 D) TM 2
- 311.** PHGR working can be checked after which notch?  
 A) 4 B) 5  
 C) 6 D) 1
- 312.** If any rotary switch is on position 2, then?  
 A) Motor & relay isolate  
 B) Motor & relay in service  
 C) Motor is isolate & relay service  
 D) Motor in service & relay isolate

313. Rising time pantograph to be adjusted at?  
A) 0-6sec  
B) 0-10sec  
C) 5-10sec  
D) 6-10sec
314. VCD can not be acknowledged by?  
A) Paddle switch  
B) Notch through MP  
C) BPR switch  
D) HORN
315. During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?  
A) Run  
B) FS  
C) Release  
D) Emergency
316. How many a/c alathen rings used in WAP7 loco?  
A) 1 B) 2  
C) 4 D) 8
317. Which oil is used in compressor lubrication?  
A) Shell Gadus  
B) 460 RR  
C) Servopress 150  
D) Molykot
318. For proper isolation of OHE what is to be ensured?  
A) Opening of isolator  
B) Connection of discharge rod  
C) Both A & B  
D) Any one among A & B is sufficient
319. Time taken by CPA to build up pressure from 0 to 8 kg in WAP4 loco?  
A) 6min  
B) 7min  
C) 8min  
D) 9min
320. Time taken by main compressor to build up pressure from 8 to 9.5 kg in WAP4 loco?  
A) 90sec  
B) 100sec  
C) 120sec  
D) 200sec
321. For dead movement of WAP 7 loco cock no. 47 to be kept at?  
A) Open B) close  
C) Any position D) None of the above

- 322.** Limit of BP airleakage?  
 A) 250 gm/5min B) 1500 gm/5min  
 C) 1000 gm/5min D) 700 gm/5 min
- 323.** In electric locomotives, Hand brake chain is connected with the lever of wheel no.?  
 A) 12 B) 01  
 C) 08 D) 02
- 324.** How many position in A9 of WAP4 loco?  
 A) 2 B) 5  
 C) 6 D) None of the above
- 325.** Standard piston stroke in WAP-4 loco is?  
 A) 78 to 88mm B) 107 to 117mm  
 C) 102 to 119mm D) 68 to 78 mm
- 326.** BP pressure of WAP 7 loco in release position of A9?  
 A) 3.5kg B) 4.6kg  
 C) 5.6kg D) 5.0kg
- 327.** Standard piston stroke in WAP-7 loco is?  
 A) 78 to 88mm B) 107 to 117mm  
 C) 102 to 119mm D) 68 to 78mm
- 328.** Total clearance between brake block & wheel face in WAP-4 loco is?  
 A) 10mm B) 15mm  
 C) 20mm D) None of the above
- 329.** What is QOP relay?  
 A) Aux circuit earthing relay B) Main circuit earthing relay  
 C) Traction motor overvoltage relay D) High voltage overcurrent relay
- 330.** If HMCS 2 on position 3 then which motor is isolated?  
 A) TM 4  
 B) TM 5  
 C) TM 6  
 D) All TM in service
- 331.** Gap between traction motor bottom nose & bonded rubber sandwich mounting assembly should not be more than?  
 A. 5mm B. 3mm  
 C. 6mm D. 8mm
- 332.** If any rotary switch is on position 3, then?  
 A) Motor & relay isolate  
 B) Motor & relay in service  
 C) Motor is isolate & relay service  
 D) Motor in service & relay isolate
- 333.** Rising time pantograph to be adjusted at?  
 A) 0-6sec  
 B) 0-10sec  
 C) 5-10sec  
 D) 6-10sec

**334.** Lowering time pantograph to be adjusted at?

- A) Up to 6sec B) Up to 10 sec
- C) between 5-10sec D) between 6-10sec

**335.** During cab changing in CCB brake system fitted locomotive rear cab A9 handle to be kept in position?

- A) Run B) FS
- C) Release D) Emergency

**336.** What is the notch regression time?

- A) 9-11sec B) 10-12sec
- C) 11-13sec D) 13-15sec

**337.** Which oil is used in compressor lubrication?

- A) Shell gadus B) 460 RR
- C) Servopress 150 D) Molykot

**338.** What is the voltage level of OHE?

- A) 22.5KV B) 25KV
- C) 27.5KV D) 30KV