

Syllabus for Selection to the post of JE (Dsl – Mechanical) against 25% Quota

1. Knowledge of basic principles and terminology of Mechanical equipment of all types of Diesel locomotives, DEMUs and Diesel units maintained by Shed, ART, SPMRV, SPIC.
2. Knowledge of Alco, HHP, WAG7 and WAG9 locomotives, DEMUs and Diesel Units maintained by shed-Constructional details, working and functioning. Preventive maintenance schedules, Testing & trouble shooting.
3. Functioning, maintenance & testing of following equipment's – Alco, HHP, WAG7 and WAG9 locomotives as applicable.
 - i. PowerPack
 - ii. UnderTruck
 - iii. Compressor
 - iv. Brake systems
 - v. Hydraulic system
 - vi. Turbo Super Charger of various types
 - vii. Turbo Clutch assembly
 - viii. Heat Exchangers
 - ix. Cylinder Heads
 - x. FIP
 - xi. Water Pump
 - xii. Lube Oil Pump
 - xiii. After Cooler
 - xiv. RTTM/FTTM Blower
 - xv. EPD
 - xvi. Hot Oil Detector
 - xvii. MUI
 - xviii. Radiators
 - xix. Governors etc.,
4. Knowledge on Wabtec DSL Locos
5. Knowledge of reading various drawings related to mechanical systems.
6. Knowledge of Fuel Oil system, Lube oil system, Cooling water system, Air Intake system, compressor-Maintenance, trouble shooting, rectification in Alco & HHP locomotives.
7. Knowledge of latest developments like long life lube oil filters, Plate Type Lube Oil Coolers, Lube Oil Centrifuge, Air dryers, high horse power turbo superchargers,VCD,APU,DPCS etc
8. Under Truck - Alco & HHP WAG7 and WAG9 locomotives-Overhauling of Bogies, Roller Bearings, checking of Axle box bearings and clearances. Checks conducted on important clearances, testing of springs, dampers, equalizing beams, compensating beams, knowledge of 'wheel gauge widening and measurement to wheel profile. Knowledge of design features of high adhesion bogies; Trimount cast bogies, equalizerless bogies. Knowledge of Radial bogies used in HHP locomotives & HTSC bogies.
9. Safety – Knowledge of various safety items fitted in the engine & locomotive.
10. Safety checks to be conducted on locomotive (including fire safety) before dispatch.
11. Knowledge of Airbrake system – Alco, HHP, WAG7 and WAG9 locomotives - IRAB, CCB, E₇₀ brake system etc., Overhauling procedure of all airbrake valves, operational procedure of multiple unit operation. Knowledge of troubleshooting in airbrake system. Conducting Airbrake self test & MU set up for HHP locos.
12. Knowledge on Disaster management

13. Knowledge of various tools and precision instruments required for maintenance of mechanical equipment.
 - i. Power wrenches
 - ii. Torque multipliers
 - iii. Vernier caliper
 - iv. Wheel profile gauges
 - v. Temperature measurement gauges etc.
14. Knowledge of locomotive working in multiple units.
15. Safety precautions to be taken at workplace & OHE safety precautions.
16. Fire prevention measures and fire fighting to be followed in the locomotive as well as in the shed.
17. General stores procedures- Indenting Stock & Non-Stock items and stocking procedure.
18. Knowledge of Establishment rules like HOER, WCA, Leave rules, Pass rules, D&A rules, Conduct rules and Official Language policy.
19. Knowledge of various Preventive maintenance schedules (Trip, Monthly, M-6/M-18/M-36 for Alco, 30D, 90D, 180D, Y1, Y2, Y3, Y4, Y5, Y6 schedules for HHP locomotives) and important jobs done in each schedule, SLAM (Software for Locomotive Asset Management)
20. Knowledge of Quality Standards (i) ISO 9001:2015, (ii) ISO 14001:2015, (iii) OHSAS 18001:2007, (iv) 5S, (v) ISO 5001 & (vi) 6 Sigma
21. Knowledge on computer working.

General:

- Knowledge on Railway organization and its functioning.
- As per extant instructions at least 10% of the total marks prescribed for the written test should be on official policy and rules on optional basis.
- Simple problems on Area/Volume of square, rectangle, circle, cone, triangle etc.
- English knowledge in simple sentences, articles and preposition.

Syllabus for Selection to the post of JE(Dsl-Electrical) against 25% Quota

1. Knowledge of basic principles of Electricity-Ohms Law, Kirchhoff Law, Resistance, Current, Generators, Motors, Capacitors, Inductors, Silicon control rectifiers, Inductors, units, Terminology and items related to Electrical equipment's of all types of Diesel and Electrical Locomotives and Diesel units maintained by the Loco shed.
2. Knowledge of various tools and precision instruments required for maintenance of electrical equipment like Multi-meter, Megger, Cliponmeter, frequency meter etc.
3. Knowledge of all types of Diesel and Electrical locomotives and Diesel units maintained by the sheds, constructional details, functional, preventive maintenance schedules, testing and trouble shooting.
 - i. Knowledge of functioning, maintenance & testing of the following equipments
 - ii. Actuator.
 - iii. Fuel shut off solenoid
 - iv. Self starter motor
 - v. Fuels pump motor
 - vi. Crankcase motor.
 - vii. Battery charging alternator.
 - viii. Speedometer.
 - ix. Tachometer
 - x. Traction Alternator/Generator of different types.
 - xi. Traction Motors.
 - xii. Electrical Ancillary Machines.
 - xiii. ECC.
 - xiv. Dynamic Brake/ Blended brake in Diesel Locos.
 - xv. Power Generator
 - xvi. BKTs/Reversers
 - xvii. TCC&LCC.
 - xviii. SCR
 - xix. Radiator Fan Motor.
 - xx. IGBT., etc,
 - xxi. SLAM (Software for Locomotive Asset Management)
4. Working principles of different types of excitation system in various types of Diesel Locomotives and diesel units maintained by the shed. Alco, HHP.
5. Knowledge of electrical safety devices like LWS, OPS, PCS, EPD, GFOLR etc. on Alco, HHP, WAG7 and WAG9,
6. Knowledge on Wabtec DSL Locos
7. Knowledge of reading various drawings and circuits related to electrical systems.
8. Knowledge of car body cables and terminal boards.
9. Knowledge of conducting load box test and adjustments required to be made for all types of Locomotives and diesel units maintained by shed.
10. Knowledge of locomotive working in multiple units.
11. Safety precautions to be taken at work place & OHE safety precautions.
12. Fire prevention measures and fire fighting to be followed in the locomotive as well as in the shed.

13. General stores procedures- Indenting Stock & Non- Stock items and stocking procedure.
14. Knowledge of Establishment rules like HOER, WCA, Leave rules, Pass rules, D&A rules, Conduct rules and Official Language policy.
15. Knowledge of various Preventive maintenance schedules (Trip, Monthly, M-6/M-18/M-36 for Alco, 30D, 90D, 180D, Y1, Y2, Y3, Y4, Y5, Y6 schedules for HHP locomotives) and important jobs done in each schedule.
16. Knowledge of Quality Standards (i) ISO 9001:2015, (ii) ISO 14001:2015, (iii) OHSAS 18001:2007, (iv) 5S, (v) ISO 5001 & (vi) 6 Sigma
17. Knowledge on computer working.

General:

- Knowledge on Railway organization and its functioning.
- As per extant instructions at least 10% of the total marks prescribed for the written test should be on official policy and rules on optional basis.
- Simple problems on Area/Volume of square, rectangle, circle, cone, triangle etc.
- English knowledge in simple sentences, articles and preposition.

**Question Bank for JE/Dsl/Elec against 25% quota
Electrical (Diesel)**

A. ALCO Locomotives:

1. How to reset the VCD penalty brakes in Alco locos
 - (a) Bring TH to idle, Reverser-F/R
 - (b) Reset after 35sec- after Extinguishing of LED
 - (c) Both a and b
 - (d) None
2. In AC/DC if GFOLR trips
 - (a) Engine will shutdown
 - (b) Load meter will not respond
 - (c) Throttle will not respond
 - (d) Both 'b' and 'c'
3. If exciter current exceeds 285amps
 - (a) GFOLR will trip
 - (b) GR2 will trip
 - (c) GR1 will trip
 - (d) GR will trip
4. In WW governor loco if PCS is knocked out
 - (a) ERR will de-energize
 - (b) ESR will de-energize
 - (c) DMR will de-energize
 - (d) Both A & C
5. In AC - DC loco if MB2 trips on run
 - (a) Batteries will get overcharge
 - (b) Batteries will get discharge
 - (c) Engine will shutdown
 - (d) BCA will show 0
6. S21 contactor is connected between TM Nos.
 - (a) 3&6
 - (b) 1&4
 - (c) 2&5
 - (d) 3&5
7. During M.U. operation if trailing loco GR-1 trips on run, the indication in leading loco
 - (a) GR-1 knob projects out
 - (b) Bell will ring along with white bulb glowing
 - (c) Load meter will overshoot with alarm bell ringing
 - (d) Engine will shutdown

8. In Medha Microprocessor version III loco Low hauling power will be Experienced when
 - (a) TE limit switch is enabled.
 - (b) Rectifier fuse blown out
 - (c) Both a & b.
 - (d) Power setter switch enabled.
9. In Medha microprocessor loco when one TM is isolated, loco will
 - (a) Start with Series parallel combination
 - (b) Start with Parallel combination
 - (c) Start with Parallel with shunt combination
 - (d) Loco will not move
10. In Medha version3loco,traction motors are isolated through
 - (a) DID panel
 - (b) MCOS
 - (c) Toggles witch
 - (d) By packing reverser bits
11. In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with
 - (a) Series parallel combination
 - (b) Parallel combination
 - (c) series parallel with shunt combination
 - (d) Parallel with shunt combination
12. In Medha microprocessor loco when traction motor No.5 is isolated
 - (a) S1will not pick up
 - (b) S21 will not pick up
 - (c) S31 will not pick up
 - (d) P31willnotpickup
13. In Medha Microprocessor loco if TM2 &5 are isolated loco will start with
 - (a) Series-parallel combination
 - (b) Parallel combination
 - (c) Parallel with shunt combination
 - (d) Series-parallel with shunt combination
14. In Alco loco fuel pump motor is located in
 - (a) Nose compartment
 - (b) Radiator room
 - (c) Compressor room
 - (d) Engine room
15. In AC/DC loco during cranking, engine will not crank if
 - (a) GR trips
 - (b) GR1 trips
 - (c) GR2 trips
 - (d) GFOLR trips

16. In AC/DC loco if CK1 and CK2 are welded
- (a) Battery ammeter will show discharge
 - (b) Load meter will not respond
 - (c) Both a & b
 - (d) none
17. In AC/DC loco if cranking contactors get welded
- (a) Batteries will get discharge
 - (b) Batteries will get overcharge
 - (c) Engine will get shutdown
 - (d) Batteries will neither charge nor discharge
18. In AC/DC loco if CK3 gets welded
- (a) Load meter will not respond
 - (b) Batteries will get discharged
 - (c) TH will not respond
 - (d) Both a and b
19. In AC/DC loco load meter will not respond if
- (a) CK1 & CK2 are welded
 - (b) CK3 welded
 - (c) Both a and b
 - (d) GFC is welded
20. In AC/DC loco if TDR is in energized condition
- (a) Throttle will not respond
 - (b) Batteries will discharge
 - (c) Both a and b
 - (d) Engine will get shutdown
21. When the speedometer of a running train engine becomes defective
- (a) Fail the locomotive
 - (b) Work the train by reducing 10% speed from booked speed
 - (c) Work further with 50 kmph
 - (d) Ask for the relief engine
22. What are the present VCD cyclic timings?
- (a) 60, 8 and 8 seconds
 - (b) 60, 17 and 17 seconds
 - (c) 170, 17 and 17 seconds
 - (d) 65, 8 and 8 seconds
23. When Head light becomes defective speed of the train shall not exceed.
- (a) 20 kmph
 - (b) 30 kmph
 - (c) 40 kmph
 - (d) 50 kmph

24. If SAR relay is not energized what will happen
- (a) Engine will over speed
 - (b) Engine will start
 - (c) Engine will start normally but GF will not P/up
 - (d) Engine will start normally
25. When Headlight becomes defective speed of the train shall not exceed?
- (a) 20kmph
 - (b) 30kmph
 - (c) 40kmph
 - (d) 50kmph
26. If battery ammeter is showing overcharging, what may be the reason?
- (a) BS open
 - (b) MB1 tripped
 - (c) Battery defective
 - (d) AGFB tripped
27. If BA shows over charging due to defective battery, the following action is to be taken?
- (a) BS to be open
 - (b) Shut down the engine
 - (c) Engine to be brought to idle
 - (d) No action required
28. If battery ammeter shows over charging, what may be the reason?
- (a) BS open
 - (b) MB1tripped
 - (c) VRP defective
 - (d) AGFB tripped
29. How many times resetting of GR&GFOLR will be done?
- (a) 3
 - (b) 6
 - (c) Work on lower notches
 - (d) Work up to destination
30. If battery ammeter shows discharging, what may be the reason?
- (a) AGFB Tripped
 - (b) Fuse Blown out
 - (c) Cards Slack
 - (d) All
31. If engine is not cranking what is the switches to be checked?
- (a) Battery Knife Switch
 - (b) Engine Control Switch
 - (c) MUSD Switch
 - (d) All the above

32. If Battery ammeter shows discharging and not rectified what is the action to be taken?
- (a) Work for 4Hours
 - (b) Do not Shutdown
 - (c) Do not allow for Automatic Shut Down.
 - (d) All of the above
33. What is the reason for battery ammeter showing ZERO?
- (a) Battery Switch Open
 - (b) AGFB Tripped
 - (c) VRP Defective
 - (d) AUX.GEN .Defective
34. If FPC Contactor closing but engine is not cranking what may be the reason?
- (a) MB1 Tripped /Off
 - (b) MB2 Tripped/Off
 - (c) FPB Tripped/Off
 - (d) MFPB1&MFPB2 Tripped/Off
35. What may be the reason for throttle is not responding?
- (a) DMR De-energized
 - (b) GR Tripping
 - (c) GFOLR Tripping
 - (d) All the Above
36. What happens if MCB1 & MCB2 get tripped on run?
- (a) Engine shutdown
 - (b) Engine comes to idle
 - (c) Load meter shows zero
 - (d) No Problem
37. When does AFL system operate?
- (a) Fireman emergency
 - (b) ACP
 - (c) Guard application
 - (d) All the above
38. What is the effect of GR tripping?
- (a) Load meter zero
 - (b) Engine comes to Idle
 - (c) GR Indication with bell
 - (d) All the above
39. In AC/DC Locomotives engine is cranked by
- (a) Main Generator
 - (b) Auxiliary & Exciter Generators
 - (c) Auxiliary Generator
 - (d) Exciter Generator

40. In AC/DC Locomotives no of cranking relays and no of cranking contactors?
- (a) 2,3
 - (b) 3,2
 - (c) 2,2
 - (d) 1,2
41. In AC/DC Locos during cranking which relay protects Auxiliary and Exciter Generators?
- (a) SAR
 - (b) GR
 - (c) TDR
 - (d) WSR
42. In place of AC Governor, which Governor is provided for compressor loading and unloading?
- (a) EPG
 - (b) GE
 - (c) Z.W
 - (d) Run-Release
43. What is the purpose of GFOLR in AC/DC Locomotive?
- (a) To protect Main Generator field
 - (b) To protect Rectifier panel
 - (c) To protect Main Generator field & rectifier panel
 - (d) To protect Auxiliary Generator
44. No of GR's in AC/DC locomotives
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
45. Which circuits are protected by GR1&GR2 after earthing?
- (a) Power Circuit
 - (b) Control circuit
 - (c) Power and Control circuits
 - (d) Nothing
46. What are the changes in single BKT Locomotives as compare to Double BKT Loco's?
- (a) 3BKR Relays
 - (b) P22&P32 Contactors location interchanged
 - (c) During DB5 Power contactors will energise
 - (d) All the above
47. What is the procedure to be taken before resetting GR & GFOLR?
- (a) ECS & Throttle Idle
 - (b) Both GFS switches Off
 - (c) Reverser Handle neutral
 - (d) All the above

48. How many times resetting of GR&GFOLR will be done?
- (a) 3
 - (b) 6
 - (c) Work on lower notches
 - (d) Work up to destination
49. Which Relay can reset both on automatic and manual?
- (a) GR1
 - (b) GR2
 - (c) GFOLR
 - (d) All the above
50. If BKT or Reverser is not operating properly what is the action to be taken?
- (a) Fail the loco
 - (b) Operate manually with 'L' rod
 - (c) Shut down engine
 - (d) Engine Idle
51. Type of transmission in WDM3A loco
- (a) DC-AC
 - (b) AC-DC
 - (c) DC-DC
 - (d) AC-AC
52. Type of transmission in WDG3A loco
- (a) DC-AC
 - (b) AC-DC
 - (c) DC-DC
 - (d) AC-AC
53. In Alco locomotive Battery knife switch is located in
- (a) Nose Compartment
 - (b) Driven cabin
 - (c) Compressor Compartment
 - (d) Radiator room
54. In AC-DC locomotives engine is cranked by
- (a) Main Generator
 - (b) Auxiliary Generator
 - (c) Exciter Generator
 - (d) Auxiliary& Exciter Generator
55. In Alco Traction Motor gear case is having no. of bolts
- (a) 5
 - (b) 6
 - (c) 7
 - (d) 8

56. Rectifier converts

- (a) AC to DC
- (b) DC to AC
- (c) DC to DC
- (d) AC to AC.

57. Inverter convert

- (a) AC to DC
- (b) DC to AC
- (c) DC to DC
- (d) AC to AC

58. In Twin beam head lights volts halogen lamps are used

- (a) 72
- (b) 32
- (c) 24
- (d) 20

59. In twin beam head light system in DC-DC converter if one unit is defective the stand by unit can be brought into function by

- (a) Operating change over switch on DC-DC converter
- (b) By changing the control stand
- (c) By replacing bulb
- (d) None

60. In MCBG loco when shut down occurs due to over speed Initiated by MCBG, it should be acknowledged by

- (a) Resetting push button
- (b) OST test key switch
- (c) Power switch
- (d) GFOLR reset button

61. The conventional Electronic type excitation system is replaced with

- (a) Microprocessor
- (b) Static type
- (c) Shunt type
- (d) Self Excitation

62. When GF contactor is packed loco can be worked in

- (a) By manual transition
- (b) Only in parallel
- (c) Series parallel
- (d) normal

63. If electrolyte leaks from battery, will happen

- (a) Starting ground
- (b) Battery discharging
- (c) Non-explosive power ground
- (d) Engine shut down

64. When train parting on run will operate to bring Engine speed to Idle
- (a) PCS2
 - (b) P1
 - (c) P2
 - (d) Both b & c
65. In short hood control stand duplicate breaker is provided
- (a) MCB
 - (b) MFPB
 - (c) AGFB
 - (d) ERF
66. On run if MCB1 or MCB2 trips trouble will be experienced
- (a) Engine shut down
 - (b) Load meter not responding
 - (c) Throttle not responding
 - (d) None of these
67. To protect power circuit from earth fault relay is provided
- (a) DMR
 - (b) GR
 - (c) ESR
 - (d) SAR
68. Number of transitions in AC-DC locomotive
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
69. In AC-DC loco if CK3 N/C interlock is defective Contactor will not pick up
- (a) GF
 - (b) FPC
 - (c) CK1
 - (d) CK2
70. In WDM3A fuel pump motor is located in
- (a) Compressor room
 - (b) Engine room
 - (c) Radiator room
 - (d) Under truck
71. If MCBG power breaker is tripped on run engine will
- (a) Shutdown
 - (b) Come to Idle
 - (c) None
 - (D) A & B

72. In Alco loco BKBL is located in
- (a) Engine room
 - (b) Compressor room
 - (c) Nose compartment
 - (d) Radiator room
73. BKBL gets current from
- (a) Battery
 - (b) Auxiliary generator
 - (c) Current developed by TM during DB
 - (d) Main generator
74. If battery ammeter is showing over charging, the reason is
- (a) BS open
 - (b) MB1 tripped
 - (c) Battery defective
 - (d) AGFB tripped
75. If BA shows overcharging due to defective battery
- (a) BS to be open
 - (b) shut down the engine
 - (c) Engine to brought to Idle
 - (d) No action required
76. For cranking the engine what should be MUSD & ECS position
- (a) RUN, RUN
 - (b) RUN, IDLE
 - (c) STOP, RUN
 - (d) STOP, IDLE
77. If battery ammeter shows discharging and not rectified, what is the action to be taken?
- (a) Work for 4 hours
 - (b) Do not shut down
 - (c) Do not allow for automatic shut down
 - (d) All of the above
78. If engine is not cranking switch is to checked in nose compartment
- (a) Battery knife
 - (b) Engine control
 - (c) MUSD
 - (d) Start
79. If engine is not cranking contactor to be checked
- (a) FPC
 - (b) CK1
 - (c) CK2
 - (d) all the above

80. If FPC contactor closing but engine is not cranking may be the reason
- (a) MB1 tripped/Off
 - (b) MB2 tripped/Off
 - (c) FPB tripped/Off
 - (d) MFPB1 & MFPB2 tripped/Off
81. What is the reason if engine shut down automatically on run
- (a) MB2 tripped
 - (b) MFPB1&MFPB2 tripped
 - (c) FPB tripped
 - (d) All the above
82. What happens if MCB1 & MCB2 tripped on run
- (a) Engine shut down
 - (b) Engine comes to Idle
 - (c) Load meter shows zero
 - (d) No problem
83. Battery charger rectifies AC to DC of
- (a) Aux. generator output
 - (b) Companion alternator output
 - (c) Main alternator output
 - (d) None
84. If engine is not cranking which switch is to be checked on the front panel?
- (a) Battery Switch
 - (b) MUSD
 - (c) ECS
 - (d) G.F. Switch
85. If engine is not cranking which contactors are to be checked?
- (a) FPC Contactor
 - (b) CK1 Contactor
 - (c) CK2 Contactor
 - (d) All the above
86. If engine is not cranking which power contactor interlocks are to be checked?
- (a) P22, S1
 - (b) P22, S21
 - (c) P21, S1
 - (d) P1, S1
87. For engine cranking what should be MUSD & ECS position?
- (a) RUN, RUN
 - (b) RUN, IDLE
 - (c) STOP, RUN
 - (d) STOP, IDLE

88. If FPC Contactor closing but engine is not cranking what may be the reason?

- (a) MB1Tripped/Off
- (b) MB2Tripped/Off
- (c) FPB Tripped/Off
- (d) MFPB1&MFPB2Tripped/Off

89. If engine is cranking but not firing what may be the reason?

- (a) OPS1 Stuck up
- (b) LWS Operated
- (c) OSTA Tripped
- (d) All the above

90. If engine is cranking but not firing with indication what may be the reason?

- (a) LWS Operated
- (b) OSTA Tripped
- (c) SAR Defective
- (d) All the above

91. If engine is cranking but not firing while starting what may be the reason?

- (a) FPM not working
- (b) Fuel Booster Pump defective
- (c) Love joy coupling defective
- (d) All the above

92. What is the reason if engine is cranking but not firing?

- (a) Governor booster pump defective
- (b) Love joy coupling defective
- (c) No Governor oil in tank
- (d) All the above

93. What is the reason if engine is cranking, firing but not holding?

- (a) SAR Interlock defective
- (b) OPS Defective
- (c) Lube oil system defective (Below1.6Kg/Cm2)
- (d) All the above

94. What is the reason if engine shut down automatically on run?

- (a) MB2 Tripped
- (b) MFPB1&MFPB2 Tripped
- (c) FPB Tripped
- (d) All the above

95. Which breaker is to be checked if engine shutdown on run?

- (a) MB1Tripped
- (b) MCB1&MCB2 Tripped
- (c) FPB Tripped
- (d) All the above

96. What should be checked if engine shutdown with over speed?
- (a) OSTA
 - (b) SAR
 - (c) Governor Amphenol plug
 - (d) Fuel pump motor
97. What should be checked if engine shutdown on run with indication?
- (a) OSTA
 - (b) LWS
 - (c) SAR
 - (d) Governor Amphenol plug
98. What may be the reason for throttle is not responding?
- (a) DMR De-energized
 - (b) GR Tripping
 - (c) GFOLR Tripping
 - (d) All the above
99. What happens if MCB1 & MCB2 get tripped on run?
- (a) Engine shut down
 - (b) Engine comes to idle
 - (c) Load meter shows zero
 - (d) No Problem
100. In AC/DC Locomotives engine is cranked by
- (a) Main Generator
 - (b) Aux. & Exc. Generators
 - (c) Auxiliary Generator
 - (d) Exciter Generator
101. AC/DC Locomotives no of cranking relays and no of cranking contactors?
- (a) 2,3
 - (b) 3,2
 - (c) 2,2
 - (d) 1,2
102. In AC/DC Locos during cranking which relay protects Aux and Exc.Gens?
- (a) SAR
 - (b) GR
 - (c) TDR
 - (d) WSR
103. In place of AC Governor, which Governor is provided for compressor loading and unloading
- (a) EPG
 - (b) GE
 - (c) W.W
 - (d) Run-Release

104. What is the purpose of GFOLR in AC/DC Locomotive?
- (a) To protect Main Generator field
 - (b) To protect Rectifier panel
 - (c) To protect Main Generator field & rectifier panel
 - (d) To protect Auxiliary Generator
105. No of GR's in AC/DC locomotives
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
106. Which circuits are protected by GR1 & GR2 after earthing?
- (a) Power Circuit
 - (b) Control circuit
 - (c) Power and Control circuits
 - (d) Nothing
107. What are the changes in single BKT Locomotives as compare to Double BKT Loco's?
- (a) 3BKR Relays
 - (b) P22 & P32 Contactors location interchanged
 - (c) During DB 5 Power contactors will energize
 - (d) All the above
108. What is the procedure for resetting GR & GFOLR?
- (a) ECS & Throttle Idle
 - (b) Both GF Switches Off
 - (c) Reverser Handle Neutral
 - (d) All the above
109. How many times resetting of GR & GFOLR can be done?
- (a) 3
 - (b) 6
 - (c) Work on lower notches
 - (d) Work up to destination
110. If BK T or Reverser is not operating properly what is the action to be taken?
- (a) Fail the loco
 - (b) Operate manually with 'L' rod
 - (c) Shut down engine
 - (d) Engine Idle
111. In MCBG loco Actuator/Sensor unit is located at
- (a) Compressor compartment
 - (b) Excitation Panel
 - (c) LP cab
 - (d) Existing location of Governor

112. S21 contactor is connected between
- (a) TM Nos. 3 & 6
 - (b) 1 & 4
 - (c) 2 & 5
 - (d) 3 & 5
113. During M.U. operation if trailing loco GR-1 trips on run, the indication in leading loco
- (a) GR-1 knob projects out
 - (b) Bell will ring along with white bulb glowing
 - (c) Load meter will over shoot with alarm bell ringing
 - (d) Engine will shutdown
114. In Medha microprocessor loco when one TM is isolated, loco will
- (a) Start with Series parallel combination
 - (b) start with Parallel combination
 - (c) start with Parallel with shunt combination
 - (d) Loco will not move
115. In Medha ver-3 loco, traction motors are isolated through
- (a) DID panel
 - (b) MCOS
 - (c) Toggle switch
 - (d) none
116. In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with
- (a) Series parallel combination
 - (b) Parallel combination
 - (c) Series parallel with shunt combination
 - (d) Parallel with shunt combination
117. In Medha microprocessor loco when TM no. 5 is isolated
- (a) S1 will not pick up
 - (b) S21 will not pick up
 - (c) S31 will not pick up
 - (d) P32 will not pick up
118. In Medha Microprocessor loco if TM 2 & 5 are isolated loco will start with
- (a) Series-parallel combination
 - (b) Parallel combination
 - (c) Parallel with shunt combination
 - (d) Series-parallel with shunt combination
119. Throttle will not respond if
- (a) MB2 trips
 - (b) MB1 trips
 - (c) AGFB trips
 - (d) MCB trips

120. In single BKT/ Rev Loco during DB which power contactors will not pick up?

- (a) P2&P22
- (b) S21&S31
- (c) S1,S21&S31
- (d) Both a and b

121. In AC/DC loco if CK1 and CK2 are welded

- (a) Battery ammeter will show discharge
- (b) Load meter will not respond
- (c) Both a &b
- (d) Battery ammeter will show overcharge

122. In AC/DC loco engine will not crank if

- (a) TDR is energized
- (b) CKR1isnotenergized
- (c) CKR2 is not energized
- (d) Both b and c

123. ERF should be switched ON when

- (a) R1andR2 contactors not picking up
- (b) ECC coil is open circuit
- (c) Both a and d
- (d) TS1&TS2 defective

124. In AC/DC loco if cranking contactors gets welded

- (a) Batteries will get discharge
- (b) Batteries will get overcharge
- (c) Engine will get shutdown
- (d) Batteries will neither charge nor discharge

125. In AC/DC loco if TDR is in energized condition

- (a) Throttle will not respond
- (b) Batteries will discharge
- (c) Both a and b
- (d) Engine will get shutdown

126. In AC/DC loco if CK3 gets welded

- (a) Load meter will not respond
- (b) Batteries will get discharged
- (c) TH will not respond
- (d) Both a and b

127. In AC/DC loco load meter will not respond

- (a) If CK1&CK2 welded
- (b) CK3 welded
- (c) Both a and b
- (d) GFC is welded

128. Max. Continuous current of Traction Alternator is Amp

- (a) 1200
- (b) 1250
- (c) 1150
- (d) 1050

129. To isolate TM 1 power contactor to be isolated

- (a) P-1
- (b) P-2
- (c) P-22
- (d) P-21B

130. To isolate TM 2 power contactor to be isolated

- (a) P-1
- (b) P-2
- (c) P-22
- (d) P-32

131. To isolate TM4 power contactor to be isolated

- (a) P-22
- (b) P-31
- (c) P-1
- (d) P-2

132. To isolate TM 5 power contactor to be isolated

- (a) P-22
- (b) P-31
- (c) P-21
- (d) P-22

133. To isolate TM6 power contactor to be isolated

- (a) P-21
- (b) P-31
- (c) P-22
- (d) P-32

134. To isolate TM3 power contactor to be isolated

- (a) P-22
- (b) P-32
- (c) P-21
- (d) P-31

135. D-solenoid in the Governor is also called

- (a) Shutdown solenoid
- (b) Cranking solenoid
- (c) Tripping solenoid
- (d) Safety solenoid

136. Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be

- (a) ERF not closed
- (b) R1andR2notpickedup
- (c) GFC not picked up
- (d) FPC not picked up

137. The following shall not be used for extinguishing fires on electrical equipment.

- (a) Dry chemical powder
- (b) Foam
- (c) Water
- (d) None of these

138. What are the present VCD cyclic timings?

- (a) 60,8and8seconds
- (b) 60,17and17seconds
- (c) 170,17and17seconds
- (d) 65,8and8seconds

139. De-energizing of MVCC means

- (a) Unloading/unloading of compressor
- (b) Un loading of compressor
- (c) Loading of compressor
- (d) Tripping of Micro Air breaker

140. VCD cycle consists of

- (a) T0–Vigilancecycle
- (b) T1& T2–Warningcycle
- (c) T3 & T4 Penalty brake cycle & Penalty brake reset
- (d) All of the above

141. In ALCO loco, if relay drops then auto flasher will work.

- (a) DMR
- (b) VCDR
- (c) AFLR
- (d) FLSHR

142. The number of DC Link Breaker in Medha Loco is .

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

143. BKBL is getting power from

- (a) TG
- (b) TA
- (c) EG
- (d) TM

144. In MEP loco is used to sense control ground
- (a) GR1
 - (b) GR2
 - (c) TANGI
 - (d) BANGI
145. No slip rings in ALCO Traction Alternator is
- (a) 4
 - (b) 2
 - (c) 1
 - (d) No slip ring
146. 24VDC /DC convertor is for-----light
- (a) Doom
 - (b) Head
 - (c) Classification
 - (d) Control stand
147. Battery ammeter will show 'Zero' when-----breaker tripped .
- (a) MB1
 - (b) MB2
 - (c) AGFP
 - (d) MFPB
148. BKBL gets supply from the
- (a) Batteries
 - (b) Auxiliary generator
 - (c) Grids
 - (d) MG
149. Which of these are not found in Medha Recording & indicating system
- (a) Recorder
 - (b) Pulse generator
 - (c) Indicator
 - (d) Signal converter
150. Braking blower (BKBL) motor has total numbers of interlopes
- (a) 4
 - (b) 6
 - (c) 8
 - (d) 10
151. Total numbers of carbon brushes used in BKBL/Grid blower motors are
- (a) 12
 - (b) 24
 - (c) 8
 - (d) 6

152. Blowing air pressure in TA is recommended between...
- (a) 0.2Kg/cm²
 - (b) 2to4 Kg/cm²
 - (c) 8to 10Kg/cm²
 - (d) Pressure of the blowing air is not specified
153. Which type of Traction Alternator used in WDG3A loco is.....
- (a) TG10931AZ
 - (b) TA10102CW
 - (c) TA10102DW
 - (d) TA10102EV
154. The function of slip rings in Traction Alternator is
- (a) Work as commutator
 - (b) Work as a current collector
 - (c) Work for balancing of Tr.Alt.rotor
 - (d) None of the above
155. Generator field cover load relay operating current limit is..
- (a) 50Amp
 - (b) 100Amp
 - (c) 280Amp
 - (d) 400Amp
156. Head light bulb is rated at voltage...
- (a) 32volt
 - (b) 24volt
 - (c) 12volt
 - (d) 72Volt
157. Which is not a safety item in a diesel locomotive?
- (a) Cattle Guard
 - (b) Dome light
 - (c) LWS
 - (d) F/Light
158. In AC/DC loco time delay relay (TDR) is provided for time delay of
- (a) 4seconds
 - (b) 8seconds
 - (c) 1.8seconds
 - (d) 12seconds
159. The lubrication of roller bearings in Traction Alternator/ Traction Generator is done by
- (a) Through greasing externally
 - (b) No lubrication is required
 - (c) Through gear of Aux.Gen. .Exciter & idler gear
 - (d) Once lubrication done during overhauling is sufficient

160. Ovality of Tr. Alternator slip rings is allowed up to
(a) 0.010"
(b) .002"
(c) .005"
(d) .006"
161. Current rating of a single diode used in Alternator mounted power rectifier in Amps...
(a) 600amps
(b) 500amps
(c) 570amps
(d) 670amps
162. Reverse control diode fitted in diesel loco is for.....
(a) Blocking the reserve flow of current to Tr.Gen.
(b) Blocking the reserve flow of current to Aux.Gen.
(c) Blocking the reserve flow of current to TachoGen.
(d) Blocking the reserve flow of current to fuel motors
163. Which relay has lowest value of coil resistance.....
(a) ERR
(b) GR
(c) ERR
(d) ESR-1
164. On which type of loco thyrite resistor is fitted
(a) WDM2
(b) WDM3A
(c) WDS6
(d) YDM4
165. Welding of FS contactor tips will give the indication of
(a) Ground relay operating
(b) EP contactor fluctuating
(c) Wheel slip on I st notch onwards
(d) GF not picking up
166. In MU operation both the loco can be shut down through...
(a) Stop Button
(b) OST
(c) MUSD
(d) Lube oil plunger
167. Reverser Contactor used on diesel loco is
(a) To change the direction of field
(b) To use the dynamic braking
(c) To pass the power supply to T/Motors
(d) None of the above

168. During DB traction motors are cooled by
- (a) FTTM BLOWER
 - (b) RTTM BLOWER
 - (c) BKBL
 - (d) FTTM & RTTM BLOWERS
169. No of crowbars fitted in WDG3A Locos
- (a) 2
 - (b) 3
 - (c) 1
 - (d) 0
170. Aux. Gen. Voltage of WDM3A loco is
- (a) 68
 - (b) 70
 - (c) $72 \pm 1V$
 - (d) $72 \pm 1A$
171. AV, BV, CV solenoids energize in-----notch
- (a) 2
 - (b) 4
 - (c) 6
 - (d) 8
172. Battery ammeter will show 'O' when-----breaker tripped.
- (a) MB1
 - (b) MB2
 - (c) AGFP
 - (d) MFPB
173. Battery charging current can be noted in----WDM3D
- (a) BCA
 - (b) DID
 - (c) DU
 - (d) NONE
174. Before checking battery charging----&----- to be ensured
- (a) BS & MB1
 - (b) BS & MB2
 - (c) MB1 & AGFP
 - (d) MB2 & MFB
175. Before switching ON GF emergency switch to be ensured
- (a) FPC
 - (b) FSC
 - (c) CK1&CK2
 - (d) R1&R2

176. BKBL gets supply from the
- (a) Batteries
 - (b) Auxiliary generator
 - (c) Grids
 - (d) MG
177. BS is located in WDM3A
- (a) Control compartment
 - (b) Nose compartment
 - (c) gen. room
 - (d) Under truck
178. In ALCO loco, if relay drops then auto flasher will work.
- (a) DMR
 - (b) VCDR
 - (c) AFLR
 - (d) FLSHR
179. The number of DC Link Breaker in Medha Loco is .
- (a) 2
 - (b) 4
 - (c) 8
 - (d) 6
180. Reverse bias in diode means connecting
- (a) +ve to anode
 - (b) -ve to anode
 - (c) -ve to cathode
 - (d) None
181. Rating of MB1 is-----Amps
- (a) 150
 - (b) 200
 - (c) 250
 - (d) 15
182. Output of headlight DC-DC converter is
- (a) 72V DC
 - (b) 72V AC
 - (c) 24V DC
 - (d) 24 V AC
183. In MEDHA VER.3 WDG3A loco, LAM gets supply from
- (a) TM current
 - (b) LAM Shunt
 - (c) MEP- output
 - (d) TG

184. Operating air pressure of BKT/REV is

- (a) 6 Kg / cm²
- (b) 5 Kg / cm²
- (c) 8 Kg/ cm²
- (d) 10 Kg/ cm²

185. In MEP loco is used to sense power ground

- (a) GR1
- (b) GR2
- (c) TANGI
- (d) BANGI

186. Power deration starts if TANGI current above mA.

- (a) 400
- (b) 500
- (c) 800
- (d) 700

187. Actuator unit is available in governor

- (a) GE
- (b) WOODWARD
- (c) MCBG
- (d) NS16

188. The following shall not be used for extinguishing fires on electrical equipment.

- (a) Dry chemical powder
- (b) Foam
- (c) Water
- (d) None of these

189. In Alco loco Dynamic brake will not work if

- (a) GF emergency switch is put ON
- (b) TM is isolated
- (c) Working with manual transition
- (d) LWS emergency switch is put ON

190. DB should not be used when

- (a) BKBL failed
- (b) Load meter failed
- (c) GF emergency switch is 'ON'
- (d) Both a and b

191. In single BKT/Rev Loco during DB which power contactors will not pick up?

- (a) P2 & P22
- (b) S21 & S31
- (c) S1, S21 & S31
- (d) Both a and b

192. In Medha Microprocessor loco if TM2 & 5 are isolated loco will start with
- (a) Series-parallel combination
 - (b) Parallel combination
 - (c) Parallel with shunt combination
 - (d) Series-parallel with shunt combination
193. In Medha microprocessor loco when TM no.5 is isolated
- (a) S1 will not pick up
 - (b) S21 will not pickup
 - (c) S31 will not pickup
 - (d) P32 will not pickup
194. In Medha Microprocessor ver-III loco Low hauling power will be experienced when
- (a) TE limit switch is enabled.
 - (b) Rectifier fuse blown out
 - (c) Both a & b.
 - (d) Power setter switch enabled
195. In Medha microprocessor loco when one TM is isolated, loco will
- (a) start with Series parallel combination
 - (b) start with Parallel combination
 - (c) start with Parallel with shunt combination
 - (d) Loco will not move
196. Continuous working in restricted zone will cause
- (a) continuous wheel slip
 - (b) power ground
 - (c) Hot engine alarm
 - (d) Engine shutdown
197. S21 contactor is connected between
- (a) TM Nos. 3&6
 - (b) 1&4
 - (c) 2&5
 - (d) 3&5
198. In AC - DC loco if MB2 trips on run
- (a) Batteries will get over charge
 - (b) Batteries will get discharge
 - (c) Engine will shutdown
 - (d) BCA will show 0
199. If BKT or Reverser is not operating properly what is the action to be taken?
- (a) Fail the loco
 - (b) Operate manually with 'L' rod
 - (c) Shutdown engine
 - (d) Engine Idle

200. How many times resetting of GR & GFOLR can be done?
- (a) 3
 - (b) 6
 - (c) Work on lower notches
 - (d) Work up to destination
201. What are the changes in single BKT Locomotives as compare to Double BKT Loco's?
- (a) 3BKR Relays
 - (b) P22 & P32 Contactors location interchanged
 - (c) During DB 5Power contactors will energize
 - (d) All the above
202. Which circuits are protected by GR1 & GR2 after earthing?
- (a) Power Circuit
 - (b) Control circuit
 - (c) Power and Control circuits
 - (d) Nothing
203. What is the purpose of GFOLR in AC/DC Locomotive?
- (a) To protect Main Generator field
 - (b) To protect Rectifier panel
 - (c) To protect Main Generator field & rectifier panel
 - (d) To protect Auxiliary Generator
204. In AC/DC Locos during cranking which relay protects Aux and Exc. Gens?
- (a) SAR
 - (b) GR
 - (c) TDR
 - (d) WSR
205. Improper control air pressure leads to
- (a) Power Contactors fluttering
 - (b) Flash over
 - (c) Power Ground
 - (d) All the above
206. If engine is not cranking which switch is to be checked on the front panel?
- (a) Battery Switch
 - (b) MUSD
 - (c) ECS
 - (d) G.F.Switch
207. If engine is not cranking which contactors are to be checked?
- (a) FPC Contactor
 - (b) CK1 Contactor
 - (c) CK2 Contactor
 - (d) All the above

208. If engine is not cranking which power contactor interlocks are to be checked?

- (a) P22, S1
- (b) P22, S21
- (c) P21, S1
- (d) P1, S1

209. Purpose of APU is to save

- (a) Fuel
- (b) Lube oil
- (c) crew
- (d) all of the above

210. To reset VCD Reverser should be in position

- (a) Neutral
- (b) Forward
- (c) Reverse
- (d) b or c

211. If MCBG power breaker is tripped on run engine will

- (a) Shut down
- (b) Come to Idle
- (c) none
- (d) a and b

212. In Alco loco BKBL is located in

- (a) Engine room
- (b) Compressor room
- (c) Nose compartment
- (d) Radiator room

213. Number of transitions in AC-DC locomotive

- (a) 1
- (b) 2
- (c) 3
- (d) 4

214. If electrolyte leaks from battery, -----will happen

- (a) Starting ground
- (b) Battery discharging
- (c) Non-explosive power ground
- (d) Engine shut down

215. In Alco loco SP1 is provided for

- (a) Over charging
- (b) Quick charging
- (c) Resetting AFL
- (d) Resetting VCD

216. Safety device is provided to prevent traction motors from damages

- (a) ESR
- (b) SR
- (c) WSR
- (d) GFOLR

217. When GF contactor is packed loco can be worked in

- (a) By manual transition
- (b) Only in parallel
- (c) Series parallel
- (d) normal

218. Fuel pump motor is not working though all circuit breakers are switched 'ON', the reason may be able to be

- (a) ERF not closed
- (b) R1 & R2 not picked up
- (c) GFC not picked up
- (d) FPC not picked up

219. Rectifier converts

- (a) AC to DC
- (b) DC to AC
- (c) DC to DC
- (d) AC to AC

220. In Alco locomotive Battery knife switch is located in

- (a) Nose Compartment
- (b) Driven cabin
- (c) Compressor Compartment
- (d) Radiator room

221. GFLOR relay is provided in AC/DC locos for safety of

- (a) Phase to Phase shorting of Tr. Alt.
- (b) Flash over between GF contacts
- (c) Earthing of Tr. Alternator
- (d) GF Contactor

222. What is the minimum Head light Focusing distance required in the locomotives provided with electrical headlight?

- (a) 100 meters
- (b) 1000 meters
- (c) 2000 meters
- (d) 250 meters and Above

223. Before switching ON GF emergency switch _____ to be ensured

- (a) FPC
- (b) FSC

- (c) CK1 & CK2
- (d) R1 & R2

224. BDIL glowing indicates batteries _____

- (a) over charging
- (b) no charging
- (c) discharging
- (d) none

225. Before checking battery charging _____ & _____ to be ensured

- (a) BS & MB1
- (b) BS & MB2
- (c) MB1 & AGFP
- (d) MB2 & MFB

226. Battery ammeter will show 'O' when _____ breaker of tripped.

- (a) MB1
- (b) MB2
- (c) AGFP
- (d) MFPB

227. AV, BV, CV solenoids energize in _____ notch

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

228. AGFB trips _____ lamp glow

- (a) ESLP
- (b) CSLP
- (c) BDIL
- (d) OVER LOAD

229. 24V DC / DC convertor is for _____ light

- (a) Doom
- (b) Head
- (c) Classification
- (d) Control stand

230. In MU operation both the loco can be shut down through...

- (a) Stop Button
- (b) OST
- (c) MUSD
- (d) Lube oil plunger

231. Welding of FS contactor tips will give the indication of

- (a) Ground relay operating
- (b) EP contactor fluctuating

- (c) Wheel slip on 1st notch onwards
- (d) GF not picking up

232. Current rating of a single diode used in Alternator mounted power rectifier in Amps...

- (a) 600 amps
- (b) 500 amps
- (c) 570 amps
- (d) 670 amps

233. The lubrication of roller bearings in Traction Alternator/ Traction Generator is done by

- (a) Through greasing externally
- (b) No lubrication is required
- (c) Through gear of Aux. Gen. Exciter & idler gear
- (d) Once lubrication done during overhauling is sufficient

234. If a supply of wire no.0 or 8 nos. breaks up, what will happen?

- (a) Loco will not move to any direction
- (b) Loco will move only one direction
- (c) Loco will move in both direction
- (d) Loco will move in both direction

235. In AC/DC loco time delay relay (TDR) is provided for time delay of

- (a) 4 seconds
- (b) 8 seconds
- (c) 1.8 seconds
- (d) 12 seconds

236. Generator field cover load relay operating current limit is..

- (a) 50 Amp
- (b) 100 Amp
- (c) 280 Amp
- (d) 400 Amp

237. Head light bulb is rated at voltage...

- (a) 32 volt
- (b) 24 volt
- (c) 12 volt
- (d) 72 Volt

238. The higher temperature of the electrolyte in the battery caused life of battery to..

- (a) Increased
- (b) No effect on life of battery
- (c) Decreased
- (d) Excess temp. is must for good life

239. On 3rd notch solenoid operated in WW governor

- (a) D Solenoid
- (b) A Solenoid

- (c) C Solenoid
- (d) A-C Solenoids

240. Which solenoids are operate on idle condition in WW Gov.

- (a) A Solenoid
- (b) B Solenoid
- (c) A Solenoid
- (d) None

241. While running If FPB trips, Engine comes to _____

- (a) Idle
- (b) Shutdown
- (c) 8th notch
- (d) 2nd Notch

242. Battery is discharging, due to _____ trips.

- (a) AGFB
- (b) MFPB
- (c) MCB
- (d) MB1

243. Which of these are not found in Medha Recording & indicating system?

- (a) Recorder
- (b) Pulse generator
- (c) Indicator
- (d) Signal converter

244. No slip rings in ALCO Traction Alternator is

- (a) 4
- (b) 2
- (c) 1
- (d) No slip ring

245. In ALCO loco MR pressure is to be maintained between _____ kg/cm²

- (a) 9-10
- (b) 8-10
- (c) 9-11
- (d) at 10

246. AG output to be maintained at _____ Volts

- (a) 64
- (b) 72
- (c) 24
- (d) 110

247. For HP calculation in ALCO locos 1 HP is equal to _____ Kw

- (a) 746
- (b) 735

- (c) 550
- (d) 476

248. Specific gravity lead acid battery at the end of charging cycle is_____

- (a) 1.245
- (b) 1.210
- (c) 1.220
- (d) 1.200

249. _____ is used in between TM commutator segments

- (a) porcelain
- (b) copper
- (c) Mica
- (d) Rubber

250. Flasher Light will work if _____ pressure switch alone drops.

- (a) P2
- (b) P1
- (c) PCS2
- (d) VCD

251. In AC-DC loco, CK2 is connected to _____ machine

- (a) AG
- (b) EG
- (c) TG
- (d) TA

252. In AC-DC loco, CK1 is connected to _____ machine

- (a) AG
- (b) EG
- (c) TG
- (d) TA

253. In MEP loco _____ is used to sense power ground

- (a) GR1
- (b) GR2
- (c) TANGI
- (d) BANGI

254. Power deration starts if TANGI current above _____mA.

- (a) 400
- (b) 500
- (c) 800
- (d) 700

255. Total HP of auxiliaries in WDG3A loco is _____

- (a) 207
- (b) 186

- (c) 200
- (d) 250

256. Total HP of auxiliaries in WDG3A loco is _____

- (a) 207
- (b) 186
- (c) 200
- (d) 250

257. VCD alarm sound during

- (a) T0 cycle
- (b) T1 cycle
- (c) T2 cycle
- (d) T3 cycle

258. In which VCD cycle, yellow flashing light will glow

- (a) T1 cycle
- (b) T2 cycle
- (c) T3 cycle
- (d) All of the above

263. What is the type of P 32 contactor

- (a) Magnetic
- (b) Electro pneumatic
- (c) both A and B
- (d) none

264. Control cards provided in MEP660 locomotive are

- (a) MEPCC, MWSCC, MAUCC
- (b) ADB1, ADB2, ADB3, ADB4
- (c) MLSD, MHSD
- (d) None of these

265. LED glows when DMR de-energizes in WDM3D loco.

- (a) LLOB
- (b) PCS
- (c) TE limit
- (d) ECS

266. Engine starting switch of ALCO Loco is located in

- (a) Engine Cab Room,
- (b) Engine Accessories,
- (c) Engine Control Panel,
- (d) None of these

267. Before starting engine fuel pump motor works from

- (a) auxiliary generator
- (b) battery

- (c) exciter generator
- (d) Tacho generator

268. To isolate TM3 ___ power contactor to be isolated

- (a) P-22
- (b) P-32
- (c) P-21
- (d) P-31

269. Throttle will not respond if

- (a) MB2 trips
- (b) MB1 trips
- (c) AGFB trips
- (d) MCB trips

270. LWS emergency switch should be switched 'ON' if

- (a) Water level is less than 1" from bottom
- (b) Float is punctured
- (c) Continuous hot engine alarm
- (d) Both a and b

271. S21 contactor is connected between

- (a) TM Nos. 3&6
- (b) 1&4
- (c) 2&5
- (d) 3&5

272. In medha microprocessor loco when traction motor No.5 is isolated

- (a) S1 will not pick up
- (b) S21 will not pick up
- (c) S31 will not pick up
- (d) P31 will not pick up

273. In Alco loco If engine is not cranking which switch is to be checked in nose compartment?

- (a) Battery Knife Switch
- (b) Engine Control Switch
- (c) MUSD Switch
- (d) Start Switch

274. What is the reason for battery ammeter showing ZERO?

- (a) Battery Switch Open
- (b) AGFB Tripped
- (c) VRP Defective
- (d) Aux. Gen. defective

275. Continuous wheel slip will be experienced during 1st transition if

- (a) FSR relay not energizing
- (b) Any one FSC is welded

- (c) Any one FSC is not picking up
- (d) TR relay not energizing

276. No. of TMs in WDM3A

- (a) 2
- (b) 3
- (c) 6
- (d) 8

277. Tractive effort of WDM3A

- (a) 298 KN
- (b) 220KN
- (c) 300 KN
- (d) 450 KN

278. Tractive effort of WDMD

- (a) 210 KN
- (b) 378 KN
- (c) 300 KN
- (d) 450 KN

279. Tractive effort of WDG3A

- (a) 150KN
- (b) 250KN
- (c) 750KN
- (d) 398KN

280. GFC not picking up in motoring due to

- (a) CK1 welded
- (b) ECS run
- (c) Rev. at motoring
- (d) Throttle notch 1

281. Railway Board has made re - nomenclature of the Diesel locomotives in which the last two digits denotes

- (a) Lube oil capacity
- (b) Fuel oil capacity
- (c) Horse Power
- (d) Weight of the loco

282. To reset auto flasheris to be used.

- (a) SP1
- (b) SP2
- (c) SW1/SW2
- (d) GFOLR reset button

283. Power contactors flutters due to

- (a) less magnetism

- (b) Load meter defective
- (c) less control air pressure
- (d) week batteries

284. In twin beam head light system in DC-DC convertor if one unit is defective the stand by unit can be brought into function by

- (a) Operating changeover
- (b) By changing to switch on DC-DC other control converter stand
- (c) by replacing bulb
- (d) none

285. If DMR not picking up in idle but on opening throttle to 2nd notch by pressing DMR if it is picking means

- (a) Week DMR
- (b) TH & selector interlocks defective
- (c) Self interlocks defective
- (d) PCS knocked out

286. In MCBG loco if sensor signals not coming or wire opens what will happen?

- (a) Engine will shut down
- (b) Engine will not fire
- (c) Engine will not respond
- (d) Load meter will not respond

287. If GF contactor is fluttering after taking II transition check

- (a) GF relay
- (b) P2
- (c) S1
- (d) P32

288. GR protects from

- (a) None
- (b) Earth fault
- (c) Hot engine
- (d) Melting of grids

289. When GFOLR resetting button is defectiveto be done.

- (a) Inform shed
- (b) Ask for R.E.
- (c) Use L rod
- (d) Reset manually

290. If CK1 bridge interlock defecttrouble.

- (a) not cranking
- (b) not holding
- (c) ck1/ck2 fluttering
- (d) not firing

291. If batteries are weak during cranking can be identified by
- (a) battery ammeter
 - (b) fluttering of CK1,CK2
 - (c) starting lamp
 - (d) smoke from batteries
292. ECC coil get supply through breaker.
- (a) FPB
 - (b) CCEB
 - (c) MCB
 - (d) MFPB
293. In trailing loco RH handle should be removed after keeping it on position in WDM3D loco
- (a) Release
 - (b) Forward
 - (c) Neutral
 - (d) Reverse
294. What is the minimum Head light Focusing distance required in the locomotives provided with electrical head light?
- (a) 100 meters
 - (b) 1000 meters
 - (c) 2000 meters
 - (d) 250 meters and above
295. AGFB is provided in
- (a) Engine room
 - (b) front panel
 - (c) nose compartment
 - (d) driver cab
296. Gear ratio of WDG3A
- (a) 18:65
 - (b) 20:70
 - (c) 19:66
 - (d) 20:90
297. Total power contactors in WDM3D is
- (a) 9
 - (b) 3
 - (c) 6
 - (d) 8
298. The position of circuit breakers are in ----- direction at 'ON' position
- (a) up
 - (b) down
 - (c) right
 - (d) left

299. During dynamic brake -----power contactor pick up in WDM3D

- (a) 3
- (b) 4
- (c) 5
- (d) 6

300. Starting ground comes through ----- in microprocessor loco

- (a) TANGI
- (b) EXAI
- (c) TAAI
- (d) BANGI

Answers:

1 (c), 2 (c), 3 (a), 4 (a), 5 (c), 6 (a), 7 (c), 8 (c), 9 (a), 10 (a), 11 (b), 12 (c), 13 (a), 14 (c), 15 (c), 16 (c), 17 (a), 18 (d), 19 (c), 20 (b), 21 (b), 22 (a), 23 (c), 24 (c), 25 (c), 26 (c), 27 (a), 28 (a), 29 (c), 30 (d), 31 (d), 32 (d), 33 (a), 34 (c), 35 (d), 36 (b), 37 (d), 38 (d), 39 (b), 40 (a), 41 (c), 42 (a), 43 (c), 44 (b), 45 (c), 46 (d), 47 (d), 48 (a), 49 (c), 50 (b), 51 (b), 52 (b), 53 (a), 54 (d), 55 (c), 56 (a), 57 (b), 58 (c), 59 (a), 60 (a), 61 (a), 62 (c), 63 (a), 64 (a), 65 (d), 66 (c), 67 (b), 68 (b), 69 (b), 70 (a), 71 (a), 72 (c), 73 (c), 74 (c), 75 (a), 76 (b), 77 (d), 78 (a), 79 (d), 80 (c), 81 (d), 82 (b), 83 (a), 84 (c), 85 (d), 86 (a), 87 (b), 88 (c), 89 (d), 90 (a), 91 (d), 92 (d), 93 (d), 94 (d), 95 (c), 96 (a), 97 (b), 98 (d), 99 (b), 100 (b), 101 (a), 102 (c), 103 (a), 104 (c), 105 (b), 106 (c), 107 (d), 108 (d), 109 (a), 110 (b), 111 (d), 112 (a), 113 (c), 114 (a), 115 (a), 116 (b), 117 (c), 118 (a), 119 (d), 120 (d), 121 (c), 122 (b), 123 (c), 124 (a), 125 (b), 126 (d), 127 (c), 128 (b), 129 (b), 130 (d), 131 (c), 132 (b), 133 (a), 134 (a), 135 (a), 136 (d), 137 (c), 138 (a), 139 (c), 140 (d), 141 (c), 142 (d), 143 (d), 144 (d), 145 (b), 146 (b), 147 (a), 148 (c), 149 (d), 150 (a), 151 (c), 152 (b), 153 (d), 154 (b), 155 (c), 156 (b), 157 (b), 158 (c), 159 (c), 160 (b), 161 (c), 162 (b), 163 (b), 164 (b), 165 (c), 166 (c), 167 (a), 168 (d), 169 (d), 170 (c), 171 (d), 172 (a), 173 (a), 174 (b), 175 (c), 176 (c), 177 (b), 178 (c), 179 (d), 180 (b), 181 (b), 182 (c), 183 (c), 184 (a), 185 (c), 186 (a), 187 (c), 188 (c), 189 (b), 190 (d), 191 (d), 192 (a), 193 (c), 194 (c), 195 (a), 196 (b), 197 (a), 198 (c), 199 (b), 200 (a), 201 (d), 202 (c), 203 (c), 204 (c), 205 (d), 206 (c), 207 (d), 208 (a), 209 (a), 210 (d), 211 (a), 212 (c), 213 (a), 214 (a), 215 (b), 216 (c), 217 (c), 218 (d), 219 (a), 220 (a), 221 (a), 222 (d), 223 (c), 224 (c), 225 (b), 226 (a), 227 (d), 228 (c), 229 (b), 230 (c), 231 (c), 232 (c), 233 (c), 234 (b), 235 (c), 236 (c), 237 (b), 238 (c), 239 (c), 240 (d), 241 (a), 242 (a), 243 (d), 244 (b), 245 (b), 246 (b), 247 (a), 248 (a), 249 (c), 250 (a), 251 (a), 252 (b), 253 (c), 254 (a), 255 (a), 256 (a), 257 (c), 258 (d), 263 (b), 264 (a), 265 (b), 266 (a), 267 (b), 268 (a), 269 (d), 270 (b), 271 (a), 272 (c), 273 (a), 274 (a), 275 (c), 276 (c), 277 (a), 278 (b), 279 (d), 280 (a), 281 (c), 282 (c), 283 (c), 284 (a), 285 (b), 286 (a), 287 (d), 288 (b), 289 (d), 290 (a), 291 (b), 292 (a), 293 (c), 294 (d), 295 (b), 296 (a), 297 (a), 298 (b), 299 (c), 300 (d)

B.HHP Locomotives

1. In WDP4/WDG4 loco when PCS is knocked out
 - (a) MAB breaker should be recycled
 - (b) TCC breaker should be recycled
 - (c) Air drier breaker
 - (d) Both a and b
2. In WDP4 /WDG4 loco before conducting air brake self test
 - (a) Recycle MAB
 - (b) Recycle TCC1 and TCC2
 - (c) Recycle Air drier breaker
 - (d) Both a & b
3. In WDP4/WDG4 loco engine should not be cranked when
 - (a) Low water button is tripped
 - (b) Crank case pressure button is tripped
 - (c) LLOB is in tripped
 - (d) OSTA is tripped
4. In WDP4/WDG4 loco load meter will not respond if
 - (a) GFB trips
 - (b) AGFB trips
 - (c) Both a & b
 - (d) MAB trips
5. In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle
 - (a) Isolate the defective TM
 - (b) Isolate the defective speed sensor
 - (c) Fail the loco immediately
 - (d) Isolate the defective truck
6. Location of Battery Knife Switch in WDG4 Loco is
 - (a) Nose Compartment
 - (b) In Accessories room
 - (c) In LP's cab
 - (d) Loco Left Side Foot Plate
7. Bogie configuration of WDG4 Locomotive is
 - (a) CO-CO
 - (b) Bo1 Bo 1
 - (c) BO-BO
 - (d) BU-BU
8. In WDG4 loco Hand brake is applied on Wheel Nos. _____
 - (a) L4, L5
 - (b) L2, R2
 - (c) R4, R5
 - (d) R2, R3

9. Traction Motor gear ratio for GT46MAC is
- (a) 17:77
 - (b) 18:90
 - (c) 17:90
 - (d) 16:90
10. How many ETP sensors are fitted in HHP locomotive
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
11. In WDG4 loco max. Brake cylinder pressure is ____Kg/Cm² during backup system
- (a) 3.8
 - (b) 3.2
 - (c) 2.2
 - (d) 5
12. Emergency brake application is accomplished by ____ valve provided at the lower left of each console
- (a) D 1 emergency valve
 - (b) Independent brake valve
 - (c) Direct Brake valve
 - (d) Companion emergency brake
13. In HHP locos MRPT-Main Reservoir Pressure Transducer reads pressure of
- (a) MR1&MR2
 - (b) MR1 pressure
 - (c) MR2 pressure
 - (d) FP pressure
14. The air brake system of HHP locos, trips locomotive control system whenever _____ relay initiates a safety control or emergency air brake application.
- (a) PCR
 - (b) DMR
 - (c) WSR
 - (d) SR
15. The EM2000 reads main reservoir air pressure from _____ transducer.
- (a) BPT
 - (b) BCT
 - (c) ERT
 - (d) MRPT
16. In HHP locos, why Maximum of 5.2kg/cm² brake cylinder pressure is used in place of 3.5kg/cm² as in conventional locos?
- (a) High horse power loco

- (b) Speed is more
 - (c) A single shoe system is used
 - (d) To have effective brake power
17. De-Energizing of MV-CC in HHP locos means
- (a) Unloading/unloading of compressor
 - (b) Unloading of compressor
 - (c) Loading of compressor
 - (d) Tripping of Micro Air breaker
18. Loading and unloading of compressor is controlled by _____ in WDG4/P4
- (a) MVCC
 - (b) EPG
 - (c) RGCP
 - (d) None of the above
19. After cranking, allow a minimum of _____ minutes for starter motor cooling before attempting another engine start.
- (a) 20
 - (b) 10
 - (c) 2
 - (d) 5
20. Do not crank engine for more than _____ with starting motors in HHP
- (a) 30 seconds
 - (b) 1 minute
 - (c) 10 seconds
 - (d) 20 seconds
21. The dN value in HHP locos represents _____
- (a) The amount of speed
 - (b) The amount of load
 - (c) The amount of torque
 - (d) The amount of wheel slip the system will permit
22. 8th notch speed of WDP4 Engine _____ RPM
- (a) 1050
 - (b) 1000
 - (c) 954
 - (d) 915
23. How many No. of batteries in WDP4 Locomotive
- (a) 8
 - (b) 10
 - (c) 4
 - (d) 6

24. Low idle RPM of WDP4 engine is _____
- (a) 210
 - (b) 200
 - (c) 220
 - (d) 215
25. Maximum continuous current of Traction Alternator of HHP locos is__ Amperes
- (a) 1200
 - (b) 1250
 - (c) 1150
 - (d) 1050
26. Maximum continuous speed of WDP4 class Loco motive is _____ kmph
- (a) 140
 - (b) 150
 - (c) 160
 - (d) 180
27. Maximum rectified output voltage of Auxiliary Alternator of HHP locos is_ volts
- (a) 74
 - (b) 75
 - (c) 72
 - (d) 70
28. Maximum rectified output voltage of Companion Alternator of HHP locos is__ volts
- (a) 250
 - (b) 230
 - (c) 200
 - (d) 110
29. Maximum rectified output voltage of Traction Alternator of HHP locos is__ volts
- (a) 2400
 - (b) 2500
 - (c) 2700
 - (d) 2600
30. Minimum continuous speed at Maximum tractive effort of WDP4 Locomotive is _____ kmph
- (a) 15.5
 - (b) 20
 - (c) 10.0
 - (d) 22.5
31. HP of WDP4 Loco motive is _____ HP
- (a) 4500
 - (b) 3900
 - (c) 3950

(d) 3939

32. Normal idle RPM of WDP4 Engine is _____

- (a) 290
- (b) 269
- (c) 250
- (d) 296

33. WDP4 OSTA tripping rpm is:

- (a) 1155 ± 20
- (b) 1125 ± 20
- (c) 1045 ± 20
- (d) 1100 ± 20

34. "D" solenoid in the Governor of HHP locos is also called _____

- (a) Shutdown solenoid
- (b) Cranking solenoid
- (c) Tripping solenoid
- (d) Safety solenoid

35. _____ circuit breaker establishes local control with power from Locomotive battery or Auxiliary generator to operate heavy duty switch gear, magnet valves, contactor, blower and miscellaneous relays of HHP locos

- (a) AGFB
- (b) MCB
- (c) GF
- (d) Local control

36. In WDG4 loco, current rating of Starting fuse _____

- (a) 600 amps
- (b) 1000 amps
- (c) 500 amps
- (d) 800 amps

37. How many position does PRIME/START switch of HHP locos has _____

- (a) 3
- (b) 2
- (c) 1
- (d) 4

38. If the LR % is _____, EM2000 is reducing power output because the engine's capabilities are less than the load being requested.

- (a) Less than 200
- (b) Less than 100
- (c) More than 100
- (d) Less than 500

39. Maximum starting effort of WDG4 is _____

- (a) 120 T

- (b) 54 T
 - (c) 22 T
 - (d) 44 T
40. Purpose of BWR (brake warning relay) in HHP locos is to
- (a) To cut out Dynamic brake in case of over current
 - (b) Protect Dynamic brake grid
 - (c) Ensure working of Dyn braking
 - (d) All the above
41. Purpose of TEL (Tractive effort limit) Relay in WDG4 Locomotives is
- (a) To limit tractive effort to 200KN or 20 T
 - (b) To limit tractive effort to 250KN or 25 T
 - (c) To limit tractive effort to 150KN or 15 T
 - (d) To limit tractive effort to 294KN or 29.4 T
42. Shutting down of all diesel engines in a consist is accomplished in HHP locos by which Relay
- (a) DMR
 - (b) GCR
 - (c) SDR
 - (d) FLR
43. The main functions of EM2000 computer is
- (a) Logic
 - (b) Excitation
 - (c) Display
 - (d) all of the above
44. The part of the ground relay system and connected to the companion alternator output, as well as the AC input to FCF (Firing Control Feedback) module is protected by_
- (a) AC control
 - (b) Companion Alternator output
 - (c) Fan circuits
 - (d) Radar circuits
45. In WDG4 loco Tractive effort is transferred from TM to wheel through ____
- (a) Load pads
 - (b) Side bearers
 - (c) Coil springs
 - (d) Traction rods
46. How Crank case vacuum is maintained in WDG4/WDP4 engines (EMD)?
- (a) Blower
 - (b) Crank case exhaustor
 - (c) Eductor
 - (d) No vacuum creation
47. How many Power Contactors are available in WDG4 Locomotive?
- (a) 7

- (b) 9
 - (c) 8
 - (d) 0
48. WDG4 Engine idle RPM
- (a) 469
 - (b) 369
 - (c) 269
 - (d) 360
49. What is the maximum permissible speed of (designed for) WDG4 locomotives
- (a) 150 kmph
 - (b) 120 kmph
 - (c) 100 kmph
 - (d) 75 kmph
50. How many Lube oil pumps available in EMD engine?
- (a) 5
 - (b) 7
 - (c) 9
 - (d) 4
51. In HHP Locos lube oil filter drum is located at _____
- (a) Generator Room
 - (b) Equipment rake
 - (c) Engine room
 - (d) Radiator Room
52. Pre lubrication is required if an engine that has been shut down for more than--- hours
- (a) 48
 - (b) 24
 - (c) 12
 - (d) 8
53. The purpose of Turbo lube pump in WDP4 Locomotive before cranking is
- (a) To lubricate the Turbo
 - (b) To remove the residual heat
 - (c) To lubricate turbo bearing
 - (d) To lubricate crank shaft
54. In HHP locos turbo lube pump should be running for ____minutes after engine is shutdown if engine was running at 5th notch and higher for 60minutes prior to engine shut down.
- (a) 15
 - (b) 35
 - (c) 20
 - (d) 45
55. _____ Number of brake blocks are provided on WDG4
- (a) 16

- (b) 12
 - (c) 32
 - (d) 22
56. What is the Safety Device provided in the Lube oil system of HHP locos?
- (a) GFOLR
 - (b) OSTA
 - (c) LLOB
 - (d) LWS
57. When LLOB trips, the engine will _____
- (a) Raise
 - (b) Shutdown
 - (c) Comes to Idle
 - (d) Hunting
58. MR Cooling coils in WDG4 is located at
- (a) Under truck
 - (b) Engine block
 - (c) Radiator room
 - (d) Compressor room
59. Manual sander of HHP locos will be working when the unit speed is up to
- (a) 30.6 kmph
 - (b) 19.5 kmph
 - (c) 30 kmph
 - (d) 25 kmph
60. Manual Sanding of HHP locos is cutout when the locomotive is operating in power/wheel creep mode, and moving at speeds above
- (a) 30 kmph
 - (b) 10 kmph
 - (c) 19.5 km/h
 - (d) 15 kmph
61. Maximum Stall Tractive Effort of WDG4 Locomotive is
- (a) 540 KN
 - (b) 400 KN
 - (c) 200 KN
 - (d) 250 KN
62. How many water pumps available in EMD locomotive engine?
- (a) 1
 - (b) 4
 - (c) 3
 - (d) 2
63. If the coolant temperature of HHP locos reaches ____degree C, the locomotive will go to throttle six limits.
- (a) 95

- (b) 92
 - (c) 85
 - (d) 100
64. In HHP locos EPD is located at _____
- (a) Engine Accessories Room
 - (b) Engine room
 - (c) Radiator Room
 - (d) Equipment rake
65. The EM2000 will consider a temperature probe failed if it reads _____
- (a) Less than -155 degrees C or greater than 150 degrees C
 - (b) Less than -55 degrees C or greater than 150 degrees C
 - (c) More than -55 degrees C or greater than 150 degrees C
 - (d) Less than -55 degrees C or greater than 250 degrees C
66. In HHP loco the system maintains the coolant temperature within a predetermined range from
- (a) 79° C to 85° C
 - (b) 85 to 95° C
 - (c) 92 to 100 ° C
 - (d) 72 to 80 ° C
67. What is the indication for blown radiator fan fuse in HHP locos?
- (a) LED
 - (b) Buzzer
 - (c) Fuse blown out Indicator will project out
 - (d) Message
68. _____ will be switched on automatically in loco, during accidents
- (a) Head light
 - (b) Auto flasher light
 - (c) Marker light
 - (d) Doom light
69. For any reason, a train is brought to a standstill, the hand brakes of Locomotive and formation shall be applied if stoppage is more than
- (a) 5 minutes
 - (b) 10 minutes
 - (c) 20 minutes
 - (d) 15 minutes
70. The following shall not be used for extinguishing fires on electrical equipment.
- (a) Dry chemical powder
 - (b) Foam
 - (c) Water
 - (d) None of these
71. What are the present VCD cyclic timings?
- (a) 60, 8 and 8 seconds

- (b) 60, 17 and 17 seconds
 - (c) 170, 17 and 17 seconds
 - (d) 65, 8 and 8 seconds
72. What precaution should be taken for conducting Air brake self test in HHP locos?
- (a) Secure loco
 - (b) Secure formation
 - (c) Detach loco and secure
 - (d) Secure both close BP & FP COC of loco towards formation.
73. What should be done first for changing console in WDG 4 / WDP 4 locos?
- (a) Disable working control stand & enable non working control stand
 - (b) Enable working control stand & disable non working control stand
 - (c) As per convenience
 - (d) None of the above
74. What should be the position of Lead /Trail switch in trailing loco of WDG4/WDP4 MU?
- (a) Trail
 - (b) Lead
 - (c) Both
 - (d) Off
75. When Head light become defective speed of the train shall not exceed ____
- (a) 20 Kmph
 - (b) 30 Kmph
 - (c) 40 kmph
 - (d) 50 kmph
76. on run if Air Flow Indictor overshoots with jerk indicates _____
- (a) Air brake failure
 - (b) Loco failure
 - (c) Air flow indicator defective
 - (d) Train Parting
77. While working LE's Loco Pilot should _____ to stop the Locomotive.
- (a) Apply A-9 brake
 - (b) Apply SA-9 and Dynamic Brakes
 - (c) Apply Hand brakes
 - (d) Close the throttle to zero.
78. Use of Dynamic Brake is _____ To raise the engine RPM
- (a) To control the train and to maintain constant speed at PSR ,TSR and Loop lines
 - (b) To nullify the conjunctional brakes
 - (c) To stop the train
 - (d) None
79. If hot oil detector of HHP locos operates _____
- (a) Engine comes to Idle
 - (b) Engine will shut down

- (c) Load meter zero
- (d) No effect

80. Bail off in HHP is provided to release

- (a) Direct brake application
- (b) Conjunctional brake application
- (c) Formation brakes
- (d) Both B and C

81. Pinion to Bull gear ratio in WDP4 loco is _____

- (a) 18:74
- (b) 18:65
- (c) 17:77
- (d) 17:90

82. Pinion to Bull gear ratio in WDG4 loco is _____

- (a) 18:74
- (b) 18:65
- (c) 17:77
- (d) 17:90

83. Type of transmission in WDG4 locos

- (a) DC-AC
- (b) AC-DC
- (c) DC-DC
- (d) AC-AC

84. Type of transmission in WDP4 locos

- (a) DC-AC
- (b) AC-DC
- (c) DC-DC
- (d) AC-AC

85. Rectifier converts

- (a) AC to DC
- (b) DC to AC
- (c) DC to DC
- (d) AC to AC

86. Inverter converts

- (a) AC to DC
- (b) DC to AC
- (c) DC to DC
- (d) AC to AC

87. Horse Power of WDG4 locomotive

- (a) 3000 HP
- (b) 4000 HP

- (c) 3500 HP
- (d) 4500 HP

88. Type of diesel engine in WDG4 locomotive

- (a) 4 stroke
- (b) 2 stroke
- (c) 3 stroke
- (d) SI

89. Fuel tank capacity in WDG4 locomotive

- (a) 4000
- (b) 5000
- (c) 6000
- (d) 7000

90. Type of diesel engine fitted WDG4 locomotive

- (a) Alco-251
- (b) GT46PAC
- (c) 710G3B
- (d) GT46MAC

91. Number of power contactors in HHP locomotive

- (a) 0
- (b) 6
- (c) 9
- (d) 10

92. Number of cylinders in Engine of WDG4 locomotive

- (a) 12
- (b) 16
- (c) 18
- (d) 20

93. Type of traction motors in HHP locomotive

- (a) AC motors
- (b) DC motors
- (c) Both A & B
- (d) None

94. _____ type of speedometer is available in HHP locomotive

- (a) Mechanical
- (b) Radar sensor
- (c) Electrical
- (d) Electronic

95. In WDG4 locomotive compressor is cooled by

- (a) Air
- (b) Water

- (c) Oil
- (d) Nature

96. Number of positions of Auto brake in WDG4 locomotive

- (a) 2
- (b) 4
- (c) 5
- (d) 3

97. In WDG4 locomotive hot oil detector is set at _____ °C

- (a) 100
- (b) 126
- (c) 150
- (d) 180

98. Blended brake is available in _____ locomotive

- (a) WDS6
- (b) WDP4
- (c) WDG3A
- (d) WDM3A

99. Lube oil sump capacity in WDG4 locomotive (in liters)

- (a) 1000
- (b) 1100
- (c) 910
- (d) 1457

100. Full RPM of WDG4 locomotive

- (a) 1000
- (b) 1050
- (c) 954
- (d) 1100

101. Idle RPM of WDG4 locomotive

- (a) 200
- (b) 269
- (c) 350
- (d) 400

102. Low Idle RPM of WDG4 locomotive

- (a) 200
- (b) 269
- (c) 350
- (d) 400

103. Coolant water capacity in HHP locomotive

- (a) 1000
- (b) 1100

- (c) 1045
- (d) 1145

104. Minimum continuous speed of WDG4 locomotive (in Kmph)

- (a) 21.5
- (b) 22.5
- (c) 20.5
- (d) 23.5

105. Type of bogie in WDG4 locomotive

- (a) Single suspension
- (b) Double suspension
- (c) Triple suspension
- (d) None

106. In HHP loco fuel oil system which type of injectors are provided

- (a) Unit Injectors
- (b) Injector with HP line
- (c) Injector with cam
- (d) None

107. In HHP locomotive Turbo charger is driven by

- (a) Exhaust Gas
- (b) Gear Train
- (c) Gear Train & Exhaust Gas
- (d) None

108. Type of Air brake system in HHP locomotive

- (a) 28 LAV1
- (b) 28 LV1
- (c) CCB-Knorr
- (d) None

109. In HHP locomotive if water pressure is less

- (a) LLOB trips
- (b) Low water pressure button will trip
- (c) Both a & b
- (d) None

110. In HHP locomotive, while conducting Air break self test working control stand L/T switch Should be kept in _____ position

- (a) Test
- (b) HLPR
- (c) Lead
- (d) Trail

111. In WDG4 banker loco working control stand Auto brake handle should be kept in _____ position

- (a) Release
- (b) Run
- (c) FS
- (d) Emergency

112. In WDG4 MU trailing loco, L/T switches in both control stand should be kept in

- (a) Test
- (b) HLPR
- (c) Lead
- (d) Trail

113. Loco model of WDG4

- (a) GT46PAC
- (b) GT46MAC
- (c) Both A & B
- (d) None

114. Loco model of WDP4

- (a) GT46PAC
- (b) GT46MAC
- (c) Both A & B
- (d) None

115. Number of batteries in WDG4 locos

- (a) 02
- (b) 10
- (c) 08
- (d) 6

116. Number of axles in WDP4 locos

- (a) 04
- (b) 06
- (c) 08
- (d) 10

117. Number of radiator fans in HHP locomotive

- (a) 02
- (b) 01
- (c) 03
- (d) 04

118. Diameter of new wheel in HHP locomotive (in mm)

- (a) 1090
- (b) 1092
- (c) 1080
- (d) 1100

119. Number of after coolers in HHP locomotive

- (a) 02
- (b) 01
- (c) 03
- (d) 04

120. Number of water expansion tanks in HHP locomotive

- (a) 02
- (b) 01
- (c) 03
- (d) 04

121. which type of Traction Motors fitted in HHP locomotive

- (a) 3-Phase AC Motors
- (b) DC Series Motors
- (c) Both A & B
- (d) None

122. Which type of Main Generator fitted in HHP locomotive

- (a) DC Generator
- (b) 3 Phase Alternator
- (c) Both A & B
- (d) None

123. Function of Traction Inverters in HHP locomotive

- (a) To control 3-Phase AC Motors
- (b) To control 3 phase Alternator
- (c) Both A & B
- (d) None

124. No. of Traction Inverters in HHP loco (In Medha make Traction system)

- (a) 6
- (b) 5
- (c) 4
- (d) 3

125. No. of Traction Inverters in HHP locos (In EMD/Siemens Traction system)

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

126. Current rating of Head Light circuit breaker in HHP locomotive

- (a) 10 AMP
- (b) 15 AMP
- (c) 20 AMP
- (d) 35 AMP

127. Number of DC link switch gears in HHP loco ((In Medha make Traction system)

- (a) 6
- (b) 5
- (c) 4
- (d) 3

128. In HHP loco, During DB TCC converts

- (a) DC into 3 Phase AC
- (b) 3 Phase into DC
- (c) Both A & B
- (d) None

129. In HHP loco, ECC-2 is located in

- (a) Driver Cab
- (b) Under Truck
- (c) Near Compressor Room
- (d) None

130. In HHP loco, STA, ST contactors are located in

- (a) ECC-1
- (b) ECC-2
- (c) ECC-3
- (d) ECC-4

131. In HHP loco, ECC-1 is located in

- (a) Driver Cab
- (b) Under Truck
- (c) Near Compressor Room
- (d) None

132. In HHP loco, ECC-3 is located in

- (a) Driver Cab
- (b) Under Truck
- (c) Near Compressor Room
- (d) None

133. In HHP loco, Power contactors are replaced with

- (a) FS contactors
- (b) Only relays
- (c) BKT/REV
- (d) DC Link

134. In HHP locos, if LLOB is in tripped position during cranking engine will

- (a) Crank
- (b) Not Fire
- (c) Not Hold
- (d) Not Crank

135. In WDG4 loco, location of Battery Knife Switch is

- (a) In Accessories room
 - (b) On foot plate
 - (c) Driver cab
 - (d) ECC-3
136. In HHP loco, if AGFB tripped
- (a) Battery will discharge
 - (b) Load meter will not respond
 - (c) Both a & b
 - (d) Engine will shut down
137. In WDG4 loco Traction Motor is
- (a) Forced air ventilated cooled
 - (b) Oil cooled
 - (c) Water cooled
 - (d) None
138. Total no. of Batteries in WDG4 locos
- (a) 01
 - (b) 02
 - (c) 08
 - (d) None
139. Total no. of Cells of batteries in WDG4 loco
- (a) 32
 - (b) 50
 - (c) 64
 - (d) None
140. Total no. of Cells of batteries in WDP4 loco
- (a) 32
 - (b) 50
 - (c) 64
 - (d) None
141. In HHP loco engine starting switch is located in
- (a) ECP
 - (b) Engine room
 - (c) Control stand
 - (d) None
142. No. of Grid blower motors in WDG4 loco
- (a) 04
 - (b) 02
 - (c) 03
 - (d) None
143. In WDG4 loco Brake warning indication indicates

- (a) Excessive Main Alternator current
 - (b) Excessive current in DB
 - (c) Excessive Air Braking
 - (d) None
144. In WDG4 loco Battery charger rectifies AC to DC of
- (a) Aux Generator output
 - (b) Companion Alternator output
 - (c) Main Alternator output
 - (d) None
145. In WDG4 loco, if on run GR trips then the engine ...
- (a) Will shut down
 - (b) Comes to Idle
 - (c) No effect on engine
 - (d) No effect on loco
146. In WDG4 loco the companion Alternator runs at the same speed as
- (a) Engine RPM
 - (b) Aux Gen RPM
 - (c) Turbo RPM
 - (d) Loco RPM
147. In WDG4 loco, Radiator fan controlled by
- (a) EM2000
 - (b) TCC
 - (c) Both A & B
 - (d) None
148. In WDG4 loco HP input to Traction motors is
- (a) 4000
 - (b) 3726
 - (c) 3100
 - (d) 3900
149. In WDG4 loco compressor is cooled by
- (a) Nature
 - (b) Air
 - (c) Oil
 - (d) Water
150. In WDG4 loco turbo is cooled by
- (a) Nature
 - (b) Air
 - (c) Oil
 - (d) Water
151. In WDG4 (ECS) isolation switch is having ____ no. of positions

- (a) 1
- (b) 2
- (c) 3
- (d) 4

152. _____ brake available only in WDP4.

- (a) Computer brake
- (b) Vigilance brake
- (c) Blended brake
- (d) Tread brake

153. Blended Brake is a mixture of

- (a) Vacuum + Air
- (b) Formation + Dynamic + Loco
- (c) Formation + Loco
- (d) Dynamic + Loco

154. In WDP4 loco when loco is moving in opposite direction to the reverser position _____ Will happen soon the speed increases to 5 kmph.

- (a) Dynamic brake comes into action
- (b) Alerter will come into function
- (c) Power ground will take place
- (d) Loco will shut down

155. When wheel is floated speed is restricted to _____ kmph.

- (a) 25
- (b) 30
- (c) 35
- (d) 40

156. Excess brake cylinder pressure can cause

- (a) Quick speed dropping
- (b) Train brakes not required
- (c) Wheel skidding
- (d) Dynamic brake not necessary

157. Bail off ring is operated to nullify _____ brake

- (a) Loco
- (b) Formation
- (c) Blended
- (d) Conjunction

158. In HHP loco Dead engine coc is located in

- (a) Control stand
- (b) Under truck
- (c) Brake bay rack
- (d) Compressor room

159. In HHP loco conjunction brake pressure is _____ kg/cm²

- (a) 3.5
 - (b) 1.8
 - (c) 5.0
 - (d) 5.2
160. In WDG4/WDP4 loco Radar magnet valve is located in
- (a) Nose compartment
 - (b) Compressor compartment
 - (c) Clean air compartment
 - (d) Radiator compartment
161. In HHP loco MVCC is connected in _____ line
- (a) MR2
 - (b) MR1
 - (c) BP
 - (d) FP
162. In HHP locos MREQ pressure is charged from
- (a) MR1
 - (b) MR2
 - (c) Control air
 - (d) FP
163. In HHP locos Sanders are operated from
- (a) MR1
 - (b) MR2
 - (c) MREQ
 - (d) BCEQ
164. In HHP locos Horns are operated from
- (a) MR1
 - (b) MR2
 - (c) MREQ
 - (d) BCEQ
165. In HHP loco MRPT is located in
- (a) Nose compartment
 - (b) ECC1
 - (c) ECC2
 - (d) ECC3
166. In HHP loco MVCC is located in
- (a) Nose compartment
 - (b) Compressor room
 - (c) Radiator room
 - (d) Under Truck
167. Total no. of keys in EM2000 display panel is
- (a) 8

- (b) 10
- (c) 12
- (d) 16

168. No. of radiator fans in WDG4 loco

- (a) 01
- (b) 02
- (c) 03
- (d) 4

169. No. of grid blower motors in WDG4 loco

- (a) 01
- (b) 02
- (c) 03
- (d) 4

170. When computer controlled breaker is recycled the disabled speed sensor

- (a) Remained disabled
- (b) Gets enabled but not to be disabled again
- (c) Remained disabled but to be enabled
- (d) Gets enabled & has to be disabled

171. Break warning indication in HHP locos means

- (a) Excessive main alternator current
- (b) Excessive breaking current in DB
- (c) Excessive air braking
- (d) None

172. When reverser is thrown in forward direction sanders of

- (a) No 3 & 6 only work
- (b) All sanders work
- (c) Sanders work irrespective of reverser
- (d) No 1 & 4 only work

173. Battery charger rectifies AC to DC of

- (a) Aux. generator output
- (b) Companion alternator output
- (c) Main alternator output
- (d) None

174. Each traction motor of HHP locos is provided with

- (a) One speed sensor
- (b) One speed sensor & one temperature sensor
- (c) One temperature sensor
- (d) Two speed sensors

175. When there is communication link failure and micro air breaker is active, the loco will work

- (a) As lead in

- (b) Only in trail mode
- (c) In both modes
- (d) In Helper mode

176. To recover PCS in HHP locos, it is compulsory to keep

- (a) Both throttle handle in Idle
- (b) Any one throttle handle in idle
- (c) Leading c/s throttle handle in idle
- (d) Leading throttle handle in idle & reverser in Neutral

177. Location of lube oil cooler in HHP locomotive

- (a) Equipment Rack
- (b) Radiator room
- (c) Compressor room
- (d) Engine room

178. Location of lube oil filter in HHP locomotive

- (a) Equipment Rack
- (b) Radiator room
- (c) Compressor room
- (d) Engine room

179. Location of fuel oil primary filter in HHP locomotive

- (a) Equipment Rack
- (b) Radiator room
- (c) Compressor room
- (d) Engine room

180. Location of water expansion tank in HHP locomotive

- (a) Equipment Rack
- (b) Radiator room
- (c) Compressor room
- (d) Engine room

181. LCC, ECP, Event recorder are located in

- (a) ECC3
- (b) ECC2
- (c) ECC1
- (d) None

182. In CCB 1.5 fault code will be displayed in

- (a) VCU
- (b) PCU
- (c) CRU
- (d) BVC

183. In WDG4 loco MU STOP button is located in

- (a) ECC1

- (b) Control console 2
- (c) ECC2
- (d) ECC3

184. In WDG4 loco Control & FP switch is located in

- (a) ECC1
- (b) Control console 2
- (c) ECC2
- (d) ECC3

185. In HHP loco braking contactors are located in

- (a) ECC3
- (b) ECC2
- (c) ECC1
- (d) None

186. In HHP loco baggie type fiber glass filters are located in

- (a) Compressor compartment
- (b) Radiator compartment
- (c) Clean air compartment
- (d) Equipment rack

187. In HHP loco IPR (Inverter Protection Resistor) is located in

- (a) Compressor compartment
- (b) Radiator compartment
- (c) Clean air compartment
- (d) Equipment rack

188. In HHP loco, dust bin blower motor is located in

- (a) Compressor compartment
- (b) Radiator compartment
- (c) Clean air compartment
- (d) Equipment rack

189. To reset VCD Reverser should be in ____ position

- (a) Neutral
- (b) Forward
- (c) Reverse
- (d) b or c

190. Purpose of APU is to save

- (a) Fuel
- (b) Lube oil
- (c) crew
- (d) all of the above

191. In HHP locos turbo super charger turbine is rotated by

- (a) Gears

- (b) Motor
- (c) Gear & Exhaust gas
- (d) Clutch

192. Oil lubricated TM gear case is provided in

- (a) WDM 2
- (b) WDM 3D
- (c) WDG 3A
- (d) WDP 4

193. In WDG4 loco LLOB is located in

- (a) Accessories room
- (b) Compressor room
- (c) Engine power take off end
- (d) ECC3

194. In WDP4/WDG4 (M/s EMD or siemens) if GR (power) trips continuously 3 times within 10 minutes

- (a) Truck isolation is to be done
- (b) Defective TM is to be isolated
- (c) Defective speed sensor is to be isolated
- (d) Fail the Loco

195. In WDP4/WDG4 loco if LLOB is in tripped position during cranking engine will

- (a) Crank
- (b) Not Fire
- (c) Not hold
- (d) Not crank

196. In WDP4/WDG4 loco defective speed sensor should be isolated if

- (a) False locked axle indication is experienced
- (b) GR trips more than 3 times within 10 minutes
- (c) Any one TM is defective
- (d) Crow bar fires

197. In WDP4/WDG4 banker loco working C/S, L/T switch should be kept in

- (a) Lead
- (b) Trail
- (c) HLPR
- (d) Test

198. In WDG4 if false locked wheel indication is experienced

- (a) Isolate defective sensor
- (b) Isolate defective truck
- (c) Isolate defective TM
- (d) Fail the loco

199. In WDP4/WDG4 banker loco working control stand A9 should be kept in

- (a) FS position
- (b) Run position
- (c) Release position
- (d) Emergency position

200. In WDP4/WDG4 Loco when lube oil temperature exceeds 124°C

- (a) Hot oil detector operates
- (b) LLOB operates
- (c) OSTA trips
- (d) Both a and b

201. In WDP4/WDG4 loco if water pressure is less

- (a) LLOB trips
- (b) Low water pressure button will trip
- (c) Crank case pressure button will trip
- (d) Both a and b

202. In WDP4/WDG4 loco when PCS is knocked out

- (a) MAB breaker should be recycled
- (b) TCC breaker should be recycled
- (c) Air drier breaker
- (d) Both a and b

203. In WDP4 /WDG4 loco before conducting air brake self test

- (a) Recycle MAB
- (b) Recycle TCC1 and TCC2
- (c) Recycle Air drier breaker
- (d) Both a & b

204. In WDP4/WDG4 loco load meter will not respond if

- (a) GFB trips
- (b) AGFB trips
- (c) Both a & b
- (d) MAB trips

205. AGFB Stands for

- (a) Auxiliary Generator Field Button
- (b) Auxiliary Generator Field Breaker
- (c) Additional Generator Field Button
- (d) Additional Generator Field Breaker

206. BL KEY Stands for

- (a) Button Lever Key
- (b) Big Lever Key
- (c) Box Lever Key
- (d) none

207. CRU Stands for

- (a) Control Relay Unit
- (b) Centre Relay Unit
- (c) Constant Relay Unit
- (d) Computer Relay Unit

208. DCL Stands for

- (a) Direct Circuit Link
- (b) Direct Current Link
- (c) Digital Current Link
- (d) Digital Circuit Link

209. DIO Stands for

- (a) Digital Input Output
- (b) Digital Internal Output
- (c) Direct Input Output
- (d) Digital Interlock Output

210. ECC-1 Stands for

- (a) Electrical Control Circuit-1
- (b) Electrical Control Cubical-1
- (c) Electrical Control Cabinet-1
- (d) Electronic Control Cabinet-1

211. EPU Stands for

- (a) Engine Performance Unit
- (b) Engine Pick Up
- (c) Engine Pressure Unit
- (d) Electrical Pick Up

212. FP RLY Stands for

- (a) Fuel Pressure Relay
- (b) Failure Protection Relay
- (c) Full Pressure Relay
- (d) Fuel Pump Relay

213. GTO Stands for

- (a) Gate Turn Off Thyristor
- (b) Gate Thyristor off
- (c) Gate Turn On
- (d) Gate Thyristor On

214. IPR Stands for

- (a) Inverter Protection Relay
- (b) Insulator Protective Resistor
- (c) Inverter Protective Rod
- (d) Inverter Protective Resistor

215. WDG4D is specially designed for

- (a) Goods service
- (b) Passenger service
- (c) Mixed service
- (d) None

216. WDG4 loco is a

- (a) Single cab loco
- (b) Dual cab loco
- (c) Dual cab loco with disc brake
- (d) None

217. Maximum speed of WDG4D loco is ____ KMPH

- (a) 100
- (b) 105
- (c) 135
- (d) 160

218. In HHP loco bail off ring is provided on

- (a) Auto brake handle
- (b) Driver back up valve
- (c) Direct brake handle
- (d) None

219. Full form of “EMDEC” is

- (a) Electro Motive Diesel Engine Control
- (b) Electro Motive Division of Engine Control
- (c) Electro Motive Diesel & Electric Control
- (d) None of the above

220. To operate MVCC, air supply is received from

- (a) MR1
- (b) MR2
- (c) BP
- (d) FP

221. In HHP loco mainly which governor is fitted

- (a) Woodward governor
- (b) MCBG
- (c) EH governor
- (d) None

222. In HHP locos EPU fitted on

- (a) Harmonic damper
- (b) Starter motor bracket
- (c) Main alternator
- (d) Companion alternator

223. No. of radiators fitted in WDP4D loco is

- (a) 1
- (b) 2
- (c) 4
- (d) None of the above

224. Radiator fan mounting bolt is torque at ____ ft-lbs.

- (a) 450
- (b) 100
- (c) 250
- (d) 50

225. No. of starter motors fitted in WDP4D loco is

- (a) 2
- (b) 1
- (c) 3
- (d) None

226. Starter motors in HHP loco are

- (a) AC motors
- (b) DC series motors
- (c) 3 phase AC motors
- (d) None of the above

227. Starter motors in HHP loco are connected in

- (a) Series
- (b) Parallel
- (c) Series parallel
- (d) None

228. for starting of HHP loco

- (a) Single electric motor is used
- (b) Dual electric motor is used
- (c) Dual air starting motor is used
- (d) None of the above

229. Use of starting fuse in HHP locos is

- (a) Only during engine starting
- (b) Only during engine running
- (c) Only during engine shutdown
- (d) All of the above

230. In Medha control system if starting fuse is removed during Running then

- (a) Engine will shut down
- (b) Engine will come to Idle
- (c) TE will comes to zero
- (d) There will be no effect on engine

231. Purpose of starting fuse is

- (a) To protect the LV (low voltage) control circuit
- (b) To protect the HV (High voltage) control circuit
- (c) To protect starter motors from current overload
- (d) All of the above

232. No. of teeth in starter motor pinion is

- (a) 10
- (b) 15
- (c) 11
- (d) None

233. During engine starting do not hold the fuel prime/engine start switch (FP/ES) to ES position for more than ____ sec.

- (a) 20
- (b) 30
- (c) 60
- (d) 80

234. Compressor of HHP loco is

- (a) Mechanical driven
- (b) Electrical motor driven
- (c) Belt driven
- (d) None

235. For CCB system air supply is received from

- (a) MR1
- (b) MR2
- (c) MREQ
- (d) None

236. During pre & post lubrication

- (a) Only main bearing & connecting rod bearing is lubricated
- (b) Only cam shaft bearing is lubricated
- (c) Only TSC bearing & gear train is lubricated
- (d) All of the above

237. Up to ____ notch HHP loco can be raised without load

- (a) 4th
- (b) 5th
- (c) 6th
- (d) 7th

238. In HHP loco Auxiliary generator drive gear is driven by

- (a) Right side cam gear
- (b) Left side cam gear
- (c) No. 2 Idler gear
- (d) No. 1 Idler gear

239. In HHP loco the relation between crank shaft & cam shaft rpm

- (a) rpm of cam shaft = rpm of crank shaft
- (b) rpm of cam shaft = $\frac{1}{2}$ of rpm of crank shaft
- (c) rpm of cam shaft = $\frac{1}{4}$ of rpm of crank shaft
- (d) None of the above

240. ECC-4 is found in

- (a) WDP4
- (b) WDG4
- (c) WDP4B
- (d) WDG4D

241. Compressor of HHP locomotive is a

- (a) Rotary compressor
- (b) Reciprocating compressor
- (c) Centrifugal compressor
- (d) None of the above

242. In HHP loco Tractive Effort limit value is

- (a) 200 KN
- (b) 250 KN
- (c) 294 KN
- (d) None

243. Blades of Dynamic brake grids fans are made of

- (a) Iron
- (b) Aluminum
- (c) Steel
- (d) None

244. TSC of HHP locomotive is cooled by

- (a) Air
- (b) Water
- (c) Lube oil
- (d) None

245. Number of Brake cylinders in HHP loco

- (a) 4
- (b) 6
- (c) 8
- (d) 10

246. Pick up time between one radiator fan to another

- (a) 10 sec
- (b) 20 sec
- (c) 30 sec
- (d) 40 sec

247. Discharge capacity of FPM in HHP locomotive
- (a) 5 GPM
 - (b) 7 GPM
 - (c) 10 GPM
 - (d) 12 GPM
248. Minimum engine cranking speed for starting
- (a) 45 – 50 rpm
 - (b) 60 – 75 rpm
 - (c) 75 – 90 rpm
 - (d) 100 – 120 rpm
249. Value of backlash between Aux. Gen. Drive gear & cam gear
- (a) 0.007" – 0.025"
 - (b) 0.008" – 0.016"
 - (c) 0.010" – 0.025"
 - (d) 0.006" – 0.018"
250. Control system used in HHP locomotive is
- (a) EMD
 - (b) Medha
 - (c) Siemens
 - (d) all of the above
251. In Medha control system during pre-lubrication TLPM run for
- (a) 120 sec
 - (b) 900 sec
 - (c) 2100 sec
 - (d) 1000 sec
252. Gear case oil capacity of WDP4D locomotive is
- (a) 7.5 litres
 - (b) 8.5 litres
 - (c) 9.5 litres
 - (d) 9.8 litres
253. Gear case oil capacity of WDG4D locomotive is
- (a) 7.5 litres
 - (b) 8.5 litres
 - (c) 9.5 litres
 - (d) 9.8 litres
254. VCD cycle consists of
- (a) T0 – Vigilance cycle
 - (b) T1 & T2 – Warning cycle
 - (c) T3 & T4 Penalty brake cycle & Penalty brake reset
 - (d) All of the above
255. T0 – Vigilance cycle is called

- (a) Vigilance cycle
- (b) Warning cycle
- (c) Penalty brake cycle
- (d) all of the above

256. T1 – Vigilance cycle is called

- (a) Vigilance cycle
- (b) Warning cycle
- (c) Penalty brake cycle
- (d) all of the above

257. T2 – Vigilance cycle is called

- (a) Vigilance cycle
- (b) Warning cycle
- (c) Penalty brake cycle
- (d) all of the above

258. T4 – Vigilance cycle is called

- (a) Vigilance cycle
- (b) Warning cycle
- (c) Penalty brake reset cycle
- (d) all of the above

259. Duration of T0 cycle of VCD is

- (a) 60 sec
- (b) 8 ± 2 sec
- (c) 34 ± 2 sec
- (d) None

260. Duration of T1 cycle of VCD is

- (a) 60 sec
- (b) 8 ± 2 sec
- (c) 34 ± 2 sec
- (d) None

261. Duration of T3 cycle of VCD is

- (a) 60 sec
- (b) 8 ± 2 sec
- (c) 34 ± 2 sec
- (d) None

262. FPM of HHP locomotive is

- (a) AC motor
- (b) DC series motor
- (c) 3Ø AC motor
- (d) None

263. Air dryer is fitted

- (a) Before MR1 reservoir
- (b) Between MR1 & MR2 reservoir
- (c) Between MR2 & CCB system
- (d) After MR2 reservoir

264. POH of HHP locomotive is done after

- (a) 8 years
- (b) 12 years
- (c) 15 years
- (d) 18 years

265. Maximum tractive effort of WDP4D locomotive is

- (a) 24 tons
- (b) 41 tons
- (c) 53 tons
- (d) None of the above

266. Full form of EBT is

- (a) Electronic Blow Down Timer
- (b) Engine Battery Temperature
- (c) Electric Blowing transducer
- (d) None of the above

267. Number of positions in L/T switch

- (a) 2
- (b) 3
- (c) 4
- (d) 5

268. Full form of "EFCO" is

- (a) Engine Fuel cut Out switch
- (b) Engine Fuel Conditioning Object
- (c) Emergency Fuel Cut Off switch
- (d) None of the above

269. Control stand of HHP locomotive is called

- (a) Control cabin
- (b) Control desk
- (c) Control console
- (d) None

270. LR dropping at higher notch, probable reason of it is

- (a) Baggie filter may be choked
- (b) Booster air pipe connection to governor may be broken/disconnected
- (c) Defective fuel injector
- (d) All of the above

271. Advantage of installation of APU system is

- (a) Saving fuel oil
- (b) Reduce emission
- (c) Reduce noise pollution
- (d) all of the above

272. Number of cells in a single battery of WDP4D locomotive

- (a) 4
- (b) 5
- (c) 8
- (d) 10

273. Number of cells in a single battery of WDG4D locomotive

- (a) 4
- (b) 5
- (c) 8
- (d) 10

274. Before re-cranking engine, wait for minimum ____ minutes to cool starter motors

- (a) 1
- (b) 2
- (c) 3
- (d) 4

275. Number of sand boxes in HHP locomotive

- (a) 4
- (b) 8
- (c) 12
- (d) 16

276. Hard starting may be experienced due to

- (a) Weak battery
- (b) Defective Starter motor
- (c) Less compression pressure
- (d) Any of the above

277. Maximum speed of traction motor blower of HHP locomotive is controlled by

- (a) OSTA
- (b) EPD
- (c) LCC
- (d) HOD

278. In Siemens control system during dynamic braking, engine raise to ____ notch rpm

- (a) 2nd
- (b) 4th
- (c) 6th
- (d) None of the above

279. No. of Traction Inverters in Medha make traction system in HHP locos

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

280. Type of Main Generator fitted in HHP locomotive

- (a) DC Generator
- (b) Single phase AC alternator
- (c) Three phase AC alternator
- (d) None of the above

281. Type of Traction Motors fitted in HHP locomotive

- (a) DC series motor
- (b) Single phase AC motor
- (c) Three phase AC motor
- (d) None of the above

282. Full form of EPD is

- (a) Engine Position Device
- (b) Engine Parting Device
- (c) Engine Protection Device
- (d) Engine Patrolling Device

283. In HHP loco Medha control system during dynamic braking, engine raise to ____ notch rpm.

- (a) 2nd
- (b) 4th
- (c) 6th
- (d) None of the above

284. Series of WDP4D is

- (a) 12
- (b) 20
- (c) 40
- (d) 70

285. WDP4D is a

- (a) Single cab loco
- (b) Dual cab loco
- (c) Dual cab loco with disc brake
- (d) Dual cab loco with Hotel load

286. Do not switch off _____ circuit breaker immediately after Engine shut down

- (a) Computer & TLPM
- (b) MAB
- (c) Local control
- (d) None

287. Do not crank the engine without external pre-lubrication if Engine has not been cranked for more than ____ hours.

- (a) 24
- (b) 36
- (c) 48
- (d) 72

288. Don't try to raise the engine before engine coolant temperature has been reached

- (a) 42°
- (b) 52
- (c) 62°
- (d) 72°

289. ECC4 located in

- (a) Cab 1
- (b) Cab 2
- (c) Under truck
- (d) None

290. _____ is provided in HHP loco in place of CCEM

- (a) TLPM
- (b) Scavenging pump
- (c) Exhauster
- (d) Eductor assembly

291. Maximum speed of WDP4D loco is ____ kmph

- (a) 100
- (b) 120
- (c) 135
- (d) 160

292. In HHP loco auxiliary generator rotate at

- (a) 2 times of the engine speed
- (b) 3 times of the engine speed
- (c) 5 times of the engine speed
- (d) None of the above

293. 4th notch engine rpm WDP4D locomotive is

- (a) 269
- (b) 486
- (c) 572
- (d) 675

294. No. of EFCO switches fitted in WDP4D loco

- (a) 2
- (b) 3
- (c) 4
- (d) None of the above

295. which of the following sensor are fitted in the traction motor?
- (a) Temperature sensor
 - (b) Voltage sensor
 - (c) Air Pressure sensor
 - (d) All of the above
296. Which of the following changes are done during conversion from 4000 HP to 4500 HP
- (a) 54" Radiator fan is introduced instead of 52" radiator fan
 - (b) 8th notch engine rpm is increased from 904 rpm to 954 rpm
 - (c) OSTA tripping rpm is increased from 1035 to 1085
 - (d) All of the above
297. Aspirator hole is provided for
- (a) Draining purpose of clean air compartment
 - (b) Draining purpose of TCC compartment
 - (c) Draining purpose of compressor compartment
 - (d) All of the above
298. Specific gravity of electrolyte of battery is measured by
- (a) Hydrometer
 - (b) Barometer
 - (c) Hygrometer
 - (d) Voltmeter
299. During Blended Braking
- (a) Train brake is applied
 - (b) Loco brake is applied
 - (c) Dynamic brake is applied
 - (d) All the above brakes are applied
300. 1st notch TE of WDP4D locomotive is
- (a) 35 KN
 - (b) 50 KN
 - (c) 15 KN
 - (d) 25 KN
301. Type of battery used in WDP4/WDP4D locomotive is
- (a) Lead acid battery
 - (b) Nickel cadmium (NiCd) battery
 - (c) Nickel Metal hydride (NiMH) battery
 - (d) Lithium Ion (Li-ion) battery
302. In HHP locomotive for quick firing of engine
- (a) High horse power FPM is fitted
 - (b) TLPM is fitted
 - (c) GBPM is fitted
 - (d) none of the above

303. No. 1 radiator fan is called that fan which is
- (a) Nearest to compressor
 - (b) Farthest from compressor
 - (c) no. specific concept for numbering
 - (d) None of the above
304. Coil resistance of Woodward governor solenoid should be
- (a) $500\ \Omega \pm 10\%$ at 20°C
 - (b) $600\ \Omega \pm 10\%$ at 20°C
 - (c) $700\ \Omega \pm 10\%$ at 20°C
 - (d) None of the above
305. To measure the speed of HHP locomotive _____ is used
- (a) Axle generator
 - (b) Pulse generator
 - (c) Radar
 - (d) None of the above
306. No. of ETPs fitted in HHP locomotive
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
307. In HHP locomotive Low lube oil shutdown is also initiated by
- (a) HOD (Hot Oil Detector)
 - (b) EPD low cooling water portion
 - (c) EPD crankcase pressure portion
 - (d) All of the above
308. Series of WDG4 is
- (a) 20
 - (b) 12 & 70
 - (c) 40
 - (d) 70
309. In MEDHA control system Radiator fan start at
- (a) Below 730 c
 - (b) Below 790 c
 - (c) Above 850 c
 - (d) 960 c
310. How many TM blowers are fitted in HHP Locomotive
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4

311. Maximum power consumed by the radiator fan shall not be exceeds

- (a) 10 HP
- (b) 15 HP
- (c) 60 HP
- (d) 90 HP

312. How many sand magnet valves are fitted in HHP Locomotive?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

313. What is full Form of HOD?

- (a) Hot Oil Device
- (b) Hot Oil Detector
- (c) Heavy Oil Dilution
- (d) Heavy Oscillation Damping Device

314. WDP4B locomotive has.....no. TM

- (a) 4
- (b) 6
- (c) 4 or 6
- (d) None of the above

315. No. of teeth in Auxiliary Generator Drive Gear is

- (a) 80
- (b) 37
- (c) 64
- (d) 26

316. Don't shift the ISOLATION Switch to run position immediately after engine start, Otherwise Engine will shut down due to

- (a) EPD low water button & LLOB operation.
- (b) EPD crankcase button & LLOB operation
- (c) Only LLOB operation.
- (d) None of the above

317. WDP4B is a

- (a) Single cab loco
- (b) Duel cab loco
- (c) Duel cab loco with disc brake
- (d) Duel cab loco with Hotel load

318. WDP4BH is a

- (a) Single cab loco
- (b) Duel cab loco
- (c) Duel cab loco with disc brake
- (d) Single cab loco with Hotel load

319. What is the full form of HTSC?
- (a) High Tensile Steel Cast bogie
 - (b) High Tensile Steel Carbody bogie
 - (c) High Tensile Steel Strength Cast bogie
 - (d) None of the above
320. What is the full form of RAPB?
- (a) Restricted Air Penalty Brake Switch
 - (b) Rapid Air Penalty brake
 - (c) Restored Air Penalty brake
 - (d) None of the above
321. What is the full form of AEB?
- (a) Automatic Engine Breakdown
 - (b) Automatic Emergency Bypass Brake
 - (c) Automatic Energy Bypass switch
 - (d) None of the above
322. What is the full form of LLOB?
- (a) Low Lube Oil Button of Governor
 - (b) Less lube Oil Button
 - (c) Low Lube Oil blast
 - (d) None of the above
323. HVAC fitted in HHP locomotive. What is full form of HVAC?
- (a) Heating Ventilating and Air Conditioner
 - (b) High Voltage Air Conditioner
 - (c) High Voltage Alternating Current
 - (d) None of the above
324. Radar is fitted at
- (a) Under truck at loco left side
 - (b) Under truck at loco right side
 - (c) Under truck at engine right side
 - (d) None of the above
325. In MEDHA control system Radiator fan contactors drops at
- (a) Below 73 o c
 - (b) Below 79 o c
 - (c) Above 85 o c
 - (d) 96 o c
326. Auxiliary generator output is utilized
- (a) To excite the field of companion alternator
 - (b) For Battery charging
 - (c) To run FPM
 - (d) All of the above

327. Specific gravity of fully charged battery of WDG4D locomotive is

- (a) 1.1
- (b) 1.15
- (c) 1.17
- (d) 1.25

328. What is the rated capacity of battery fitted in WDG4D locomotive?

- (a) 8V 450 Ah
- (b) 8V 500 Ah
- (c) 8V 155 Ah
- (d) None of the above

329. What is the rated capacity of battery fitted in WDP4D locomotive?

- (a) 450 Ah
- (b) 500 Ah
- (c) 155 Ah
- (d) None of the above

330. 1st notch TE of WDG4D Locomotive is

- (a) 35 KN
- (b) 50 KN
- (c) 15 KN
- (d) 25 KN

331. Which solenoid valve is energizes during idle speed

- (a) A
- (b) A, C
- (c) A, D
- (d) None of the above

332. Which solenoid valve is energizes during 1st notch?

- (a) Minimum flash point of RR-460 is
- (b) A, C
- (c) A, D
- (d) None of the above

333. How many poles are in main alternator (TA 17)?

- (a) 6 pole
- (b) 8 pole
- (c) 10 pole
- (d) 16 pole

334. In MEDHA control system hot engine alarm come at

- (a) 73°C
- (b) 79°C
- (c) 85°C
- (d) 96°C

335. Maximum Fuel oil pressure of HHP Locomotive is

- (a) 4.9 kg/cm²
- (b) 3.2 kg/cm²
- (c) 5.2 kg/cm²
- (d) 2.2 kg/cm²

336. Atmospheric pressure is measured by

- (a) Manometer
- (b) Barometer
- (c) Hydrometer
- (d) Pyrometer

337. Radiator fan rpm is measured by

- (a) Stroboscope
- (b) Vibration meter
- (c) Decibel meter
- (d) Pyrometer

338. In MEDHA control system when turbo cool down cycle is running, radiator fan will drop at

- (a) Below 73°C
- (b) Below 79°C
- (c) Above 85°C
- (d) 96°C

339. In HHP locomotive Blended Brake cut out switch is located in

- (a) Engine control panel
- (b) Nose compartment
- (c) ECC2
- (d) ECC3

340. In WDG4 loco Battery ammeter consists of

- (a) Green zone & Red zone
- (b) Green zone & Yellow zone
- (c) Yellow zone & Red zone
- (d) None of the above

341. In HHP locos TPU is fitted on

- (a) Harmonic damper
- (b) TSC
- (c) Main Alternator
- (d) Companion alternator

342. In HHP locomotive bail off ring is used for

- (a) VCD acknowledge
- (b) To release train brake
- (c) To apply train brake
- (d) None of the above

343. In HHP locomotive governor is fitted on
- (a) Front of the engine
 - (b) Rear end of the engine
 - (c) Loco pilot cabin
 - (d) ECC-1
344. In HHP locomotive FP pressure is set at
- (a) $6.0 \pm 0.1 \text{ kg/cm}^2$
 - (b) $6.1 \pm 0.1 \text{ kg/cm}^2$
 - (c) $6.2 \pm 0.1 \text{ kg/cm}^2$
 - (d) None of the above
345. VCD alarm sound during
- (a) T0 cycle
 - (b) T1 cycle
 - (c) T2 cycle
 - (d) T3 cycle
346. in which VCD cycle, yellow flashing light will glow
- (a) T1 cycle
 - (b) T2 cycle
 - (c) T3 cycle
 - (d) All of the above
347. Battery box is located in the
- (a) Left side of the locomotive
 - (b) Right side of the locomotive
 - (c) Both side of the locomotive
 - (d) None of the above
348. If local control circuit breaker is trip, the loco should be shut down by
- (a) LLOB
 - (b) EFCO
 - (c) MUSD
 - (d) None of the above
349. Starting fuse is located in the
- (a) Left side of the locomotive
 - (b) Right side of the locomotive
 - (c) Both side of the locomotive
 - (d) None of the above
350. Dynamic brake grid motor is a
- (a) DC motor
 - (b) Single phase AC motor
 - (c) Three phase AC motor
 - (d) None of the above

Answers:

1 (a), 2 (d), 3 (b), 4 (c), 5 (c), 6 (d), 7 (a), 8 (c), 9 (c), 10 (b), 11 (a), 12 (a), 13 (b), 14 (a), 15 (d), 16 (c), 17 (c), 18 (a), 19 (c), 20 (d), 21 (d), 22 (c), 23 (b), 24 (b), 25 (b), 26 (c), 27 (a), 28 (b), 29 (d), 30 (d), 31 (a), 32 (b), 33 (c), 34 (a), 35 (d), 36 (d), 37 (a), 38 (b), 39 (b), 40 (a), 41 (d), 42 (c), 43 (d), 44 (a), 45 (d), 46 (c), 47 (d), 48 (c), 49 (c), 50 (d), 51 (b), 52 (a), 53 (c), 54 (b), 55 (b), 56 (c), 57 (b), 58 (c), 59 (b), 60 (c), 61 (a), 62 (d), 63 (a), 64 (a), 65 (b), 66 (a), 67 (c), 68 (b), 69 (d), 70 (c), 71 (a), 72 (d), 73 (a), 74 (a), 75 (c), 76 (d), 77 (b), 78 (a), 79 (b), 80 (b), 81 (c), 82 (d), 83 (d), 84 (d), 85 (a), 86 (b), 87 (d), 88 (b), 89 (c), 90 (c), 91 (a), 92 (b), 93 (a), 94 (b), 95 (b), 96 (c), 97 (b), 98 (b), 99 (d), 100 (c), 101 (b), 102 (a), 103 (c), 104 (b), 105 (b), 106 (a), 107 (c), 108 (c), 109 (c), 110 (c), 111 (c), 112 (d), 113 (b), 114 (a), 115 (c), 116 (b), 117 (a), 118 (b), 119 (a), 120 (b), 121 (a), 122 (b), 123 (a), 124 (a), 125 (b), 126 (d), 127 (a), 128 (b), 129 (b), 130 (b), 131 (a), 132 (c), 133 (d), 134 (d), 135 (b), 136 (c), 137 (a), 138 (c), 139 (a), 140 (b), 141 (a), 142 (b), 143 (b), 144 (a), 145 (b), 146 (a), 147 (a), 148 (b), 149 (d), 150 (c), 151 (b), 152 (c), 153 (b), 154 (a), 155 (b), 156 (c), 157 (d), 158 (c), 159 (b), 160 (c), 161 (b), 162 (a), 163 (a), 164 (a), 165 (d), 166 (b), 167 (d), 168 (b), 169 (b), 170 (d), 171 (b), 172 (d), 173 (a), 174 (b), 175 (b), 176 (d), 177 (a), 178 (a), 179 (a), 180 (a), 181 (c), 182 (c), 183 (b), 184 (b), 185 (c), 186 (c), 187 (c), 188 (c), 189 (d), 190 (a), 191 (c), 192 (d), 193 (a), 194 (a), 195 (d), 196 (a), 197 (c), 198 (a), 199 (a), 200 (d), 201 (d), 202 (a), 203 (a), 204 (c), 205 (b), 206 (c), 207 (d), 208 (b), 209 (a), 210 (c), 211 (b), 212 (d), 213 (a), 214 (d), 215 (a), 216 (a), 217 (b), 218 (c), 219 (a), 220 (a), 221 (a), 222 (b), 223 (b), 224 (b), 225 (a), 226 (b), 227 (b), 228 (b), 229 (a), 230 (d), 231 (c), 232 (c), 233 (a), 234 (a), 235 (b), 236 (c), 237 (a), 238 (a), 239 (a), 240 (d), 241 (b), 242 (c), 243 (b), 244 (c), 245 (c), 246 (b), 247 (b), 248 (a), 249 (c), 250 (d), 251 (b), 252 (b), 253 (a), 254 (d), 255 (a), 256 (b), 257 (c), 258 (c), 259 (a), 260 (b), 261 (b), 262 (c), 263 (b), 264 (d), 265 (b), 266 (a), 267 (c), 268 (c), 269 (c), 270 (d), 271 (d), 272 (b), 273 (a), 274 (c), 275 (b), 276 (d), 277 (a), 278 (b), 279 (c), 280 (c), 281 (c), 282 (c), 283 (b), 284 (c), 285 (b), 286 (a), 287 (c), 288 (b), 289 (b), 290 (d), 291 (c), 292 (b), 293 (c), 294 (c), 295 (a), 296 (d), 297 (a), 298 (a), 299 (d), 300 (a), 301 (b), 302 (c), 303 (a), 304 (c), 305 (c), 306 (b), 307 (d), 308 (b), 309 (c), 310 (a), 311 (d), 312 (d), 313 (b), 314 (b), 315 (d), 316 (a), 317 (a), 318 (d), 319 (a), 320 (a), 321 (b), 322 (a), 323 (a), 324 (b), 325 (b), 326 (d), 327 (d), 328 (b), 329 (c), 330 (b), 331 (d), 332 (d), 333 (c), 334 (d), 335 (a), 336 (b), 337 (a), 338 (a), 339 (a), 340 (a), 341 (b), 342 (a), 343 (a), 344 (a), 345 (c), 346 (d), 347 (a), 348 (a), 349 (a), 350 (a).

C. WABTEC Locomotives:

1. Where is the production unit of WABTEC locomotive in India located?
(a) ROZA (UP)
(b) MORHOWRA (BIHAR)
(c) GANDHIDHAM (GUJ)
(d) None of these
2. What is the gross HP of WDG4G WABTEC locomotive?
(a) 4500
(b) 6000
(c) 3300 KW
(d) 4261
3. What is the traction HP of WDG4G WABTEC locomotive?
(a) 4500
(b) 6000
(c) 3300
(d) 4261
4. What is the gross HP of WDG6G WABTEC locomotive?
(a) 4500
(b) 6000
(c) 3300
(d) 4261
5. What is the minimum TE of WDG4G WABTEC locomotive in KN?
(a) 132
(b) 544
(c) 272
(d) 67
6. At what RPM does the engine run on 8th notch in WDG4G WABTEC locomotive?
(a) 1085
(b) 550
(c) 1050
(d) None of the above
7. What types of traction motors are used in WDG4G WABTEC locomotive?
(a) 3 ϕ AC Induction Motor
(b) Series Motors
(c) Series Parallel Motors
(d) Compound Motors
8. What type of inverters are used in WDG4G WABTEC locomotive?
(a) GTO
(b) IGBT
(c) Both
(d) None of these

9. How many inverters are used in WDG4G WABTEC locomotive?
 - (a) Six
 - (b) Seven
 - (c) Two
 - (d) Three
10. How many RADARs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
11. How many BL Keys are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
12. How many EC Switches are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
13. How many GF CBs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
14. How many GF CBs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) ONE
 - (c) TWO
 - (d) None of the above
15. How many DBR CBs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
16. How many CONT CBs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
17. How many MUSDs are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE

- (c) TWO
- (d) None of the above

18. How many STOP PBs are there in WDG4G WABTEC locomotive?

- (a) SIX
- (b) THREE
- (c) TWO
- (d) None of the above

19. How many STOP PBs are there in WDG4G WABTEC locomotive?

- (a) SIX
- (b) THREE
- (c) FIVE
- (d) None of the above

20. How many Parking Brake Apply PBs are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) FIVE
- (d) None of the above

21. How many Parking Brake Release PBs are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) FIVE
- (d) None of the above

22. How many Blended Brake TS are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) ONE
- (d) None of the above

23. How many Auto Emergency Brake TS are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) ONE
- (d) None of the above

24. How many Event Recorder TS are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) ONE
- (d) None of the above

25. How many Start PBs are there in WDG4G WABTEC locomotive?

- (a) TWO
- (b) THREE
- (c) ONE
- (d) None of the above

26. How many Auto Start Override PBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
27. How many DBR CBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
28. How many BCCBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
29. How many Air Brake CBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
30. How many APU CBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
31. How many Air Dryer CBs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) ONE
 - (d) None of the above
32. How many Display CBs are there in WDG4G WABTEC locomotive?
- (a) EIGHT
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
33. How many Display CBs are there in Cab#1 of WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
34. How many Display CBs are there in Cab#2 of WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE

- (c) FOUR
 - (d) None of the above
35. How many Relays are there in WDG4G WABTEC locomotive?
- (a) FIFTEEN
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
36. How many battery banks are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
37. How many cells are there in a battery bank of WDG4G WABTEC locomotive?
- (a) 10
 - (b) 12
 - (c) 18
 - (d) None of the above
38. How many cells are there in a battery bank of WDG4G WABTEC locomotive?
- (a) 10
 - (b) 12
 - (c) 16
 - (d) None of the above
39. What is the full name of BCCB in WDG4G locomotive?
- (a) Brake Cylinder Circuit Breaker
 - (b) Battery Charging & Computer Circuit Breaker
 - (c) Battery & Computer Breaker
 - (d) None of the above
40. What is the full name of MTB in WDG4G locomotive?
- (a) Main Terminal Board
 - (b) Main Task Breaker
 - (c) Multi Task Breaker
 - (d) None of the above
41. What is the full name of LCCB in WDG4G locomotive?
- (a) Local Control Circuit Breaker
 - (b) Local Computer Circuit Breaker
 - (c) Locomotive Computer Circuit Breaker
 - (d) None of the above
42. What is the full name of ABCB in WDG4G locomotive?
- (a) Air Brake Circuit Breaker
 - (b) Air Box Circuit Breaker
 - (c) Air Bag Circuit Breaker
 - (d) None of the above

43. What is the full name of CIO in WDG4G locomotive?
- (a) Computer Input Output
 - (b) Consolidated In and Out
 - (c) Consolidated Input Output
 - (d) None of the above
44. What is the full name of MBD in WDG4G locomotive?
- (a) Main Battery Breaker
 - (b) Multi Battery Breaker
 - (c) Maintenance Battery Disconnect
 - (d) None of the above
45. What is the full name of AXB in WDG4G locomotive?
- (a) Auxiliary Breaker
 - (b) Auxiliary Blower
 - (c) Auxiliary Blower Breaker
 - (d) None of the above
46. What is the full name of CA in WDG4G locomotive?
- (a) Computer Access Area
 - (b) Control Area
 - (c) Computer Control Area
 - (d) None of the above
47. What is the full name of ABM in WDG4G locomotive?
- (a) Auxiliary Blower Motor
 - (b) Auxiliary Blower Machine
 - (c) Auxiliary Blower Breaker
 - (d) None of the above
48. What is the full name of CDM in WDG4G locomotive?
- (a) Compressor Drive Motor Breaker
 - (b) Compressor Drive Motor Blower
 - (c) Compressor Drive Motor
 - (d) None of the above
49. What is the full name of CDC in WDG4G locomotive?
- (a) Compressor Drive Computer
 - (b) Compressor Drive Contactor
 - (c) Compressor Drive Circuit Breaker
 - (d) None of the above
50. What is the full name of PBT in WDG4G locomotive?
- (a) Parking Brake Transducer Breaker
 - (b) Parking Brake Transducer
 - (c) Parking Brake Temperature Sensor
 - (d) None of the above
51. What is the full name of RLA in WDG4G locomotive?
- (a) Rear Locomotive Analyzer
 - (b) Radio Locomotive Analyzer

- (c) Radio Locker Area
- (d) None of the above

52. What is the full name of TCD in WDG4G locomotive?

- (a) Thin Client Display
- (b) Thin Coating Display
- (c) Tough Coating Display
- (d) None of the above

53. What is the full name of CTS in WDG4G locomotive?

- (a) Crank Terminal Switch
- (b) Crank Transfer Switch
- (c) Crank Through Switch
- (d) None of the above

54. What is the full name of CCL in WDG4G locomotive?

- (a) Capacitor Charge Locker
- (b) Capacitor Charge Light
- (c) Capacitor Close Light
- (d) None of the above

55. What is the full name of RM&D in WDG4G locomotive?

- (a) Remote Monitoring Display
- (b) Remote Monitoring Department
- (c) Remote Monitoring & Diagnostics
- (d) None of the above

56. Where is CA-1 located in WDG4G locomotive?

- (a) Radiator Cab
- (b) Engine Cab
- (c) Operator Cab
- (d) None of the above

57. Where is CA-2 located in WDG4G locomotive?

- (a) Auxiliary Cab, A side
- (b) Engine Cab, ELS
- (c) Blower Cab, A side
- (d) None of the above

58. Where is CA-3 located in WDG4G locomotive?

- (a) Auxiliary Cab, A side
- (b) Engine Cab, ELS
- (c) Blower Cab, A side
- (d) None of the above

59. Where is CA-4 located in WDG4G locomotive?

- (a) Auxiliary Cab, A side
- (b) Auxiliary Cab, B side
- (c) Blower Cab, A side
- (d) None of the above

60. Where is CA-5 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Auxiliary Cab, B side
 - (c) Blower Cab, A side
 - (d) None of the above
61. Where is CA-6 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
62. Where is CA-7 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
63. Where is CA-8 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
64. Where is CA-9 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Radiator Cab, B side
 - (c) Blower Cab, A side
 - (d) None of the above
65. Where is CA-10 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
66. Where is CA-11 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
67. Where is CA-12 located in WDG4G locomotive?
- (a) Auxiliary Cab, A side
 - (b) Radiator Cab, A side
 - (c) Blower Cab, A side
 - (d) None of the above
68. Where is BKS located in WDG4G locomotive?
- (a) CA1 in Operator Cab
 - (b) Engine Cab, B-side

- (c) Radiator Cab, A-side
- (d) None of the above

69. Where is AXB located in WDG4G locomotive?

- (a) Auxiliary Cab, A side
- (b) Engine Cab, ELS
- (c) Blower Cab, A side
- (d) None of the above

70. Where is the Traction Motor Blower located in WDG4G locomotive?

- (a) Engine Cab, ERS
- (b) Radiator Cab, B side
- (c) Radiator Cab, A side
- (d) None of the above

71. Where are Fan Contactors located in WDG4G locomotive?

- (a) CA-12
- (b) CA-9
- (c) CA-5
- (d) None of the above

72. Where is the APU located in WDG4G locomotive?

- (a) Engine Cab
- (b) Radiator Cab
- (c) Blower Cab
- (d) None of the above

73. During cranking, at what position should MUSD be kept in WDG4G locomotive?

- (a) STOP
- (b) ENABLE
- (c) RUN
- (d) None of the above

74. During cranking, at what position should the EC Switch in the working cab be kept in WDG4G locomotive?

- (a) RUN
- (b) OFF
- (c) ISOLATE
- (d) None of the above

75. During cranking, at what position should the EC Switch in the non-working cab be kept in WDG4G locomotive?

- (a) RUN
- (b) OFF
- (c) ISOLATE
- (d) None of the above

76. During running, at what position should the EC Switch in the working cab be kept in WDG4G locomotive?

- (a) RUN
- (b) OFF

- (c) ISOLATE
- (d) None of the above

77. What is the maximum TE of WDG4G WABTEC locomotive in KN?

- (a) 132
- (b) 544
- (c) 272
- (d) 67

78. What is the maximum continuous TE of WDG4G WABTEC locomotive in KN?

- (a) 132
- (b) 544
- (c) 405
- (d) 67

79. What is the gear ratio of bull gear to pinion of WDG4G locomotives?

- (a) 77:17
- (b) 85:16
- (c) 85:18
- (d) 77:18

80. What is the gear ratio of bull gear to pinion of WDG6G locomotives?

- (a) 77:17
- (b) 85:16
- (c) 85:18
- (d) 77:18

81. What is the maximum TE when the TE limit switch is in the limited position in WDG6G locomotives?

- (a) 250 KN
- (b) 294 KN
- (c) 290 KN
- (d) 300 KN

82. What is the maximum TE of WDG6G locomotives?

- (a) 544 KN
- (b) 541 KN
- (c) 570 KN
- (d) 52.1 T

83. What is the axle load of WDG6G locomotive?

- (a) 22 T
- (b) 22.5 T
- (c) 21.5 T
- (d) 23 T

84. How are the VCD penalty brakes reset in WABTEC locomotives?

- (a) Bring TH to idle, Reverser-F/R
- (b) Reset after 34 sec-after extinguishing of LED
- (c) Both a and b
- (d) None of the above

85. Where is the AESS switch located in WDG6G locomotive?
- (a) CA-2
 - (b) CA-3
 - (c) Radiator Cab
 - (d) CA-1
86. Which circuit breaker should be ensured to be "off" before opening BS in WDG4G locomotive?
- (a) BCCB
 - (b) MAB
 - (c) GF breaker
 - (d) LCCB
87. What is the clearance to be maintained between brush holders and commutator of DB motor in WDG4G locomotives?
- (a) 1.54-2.29 mm
 - (b) 1.0-2.0 mm
 - (c) 1.6-2.6 mm
 - (d) 1.50-2.50 mm
88. What is the DB motor brush spring pressure in WDG4G locomotives?
- (a) 43-60 oz
 - (b) 50-65 oz
 - (c) 60-70 oz
 - (d) 70-80 oz
89. How many positions does the Event Recorder toggle switch have in WDG4G locomotives?
- (a) 3 positions
 - (b) 2 positions
 - (c) 4 positions
 - (d) None of the above
90. What are the positions of the Event Recorder toggle switch in WDG4G locomotives?
- (a) Active
 - (b) Memory Freeze
 - (c) Both (a) and (b)
 - (d) None of the above
91. In WDG4G locomotive, when the AEB switch is in 'ON' position, to what speed is the locomotive restricted?
- (a) 20 Kmph
 - (b) 30 Kmph
 - (c) 35 Kmph
 - (d) 15 Kmph
92. What does the Multi Task Circuit Breaker (MTB) provide power and protection to in WDG4G locomotive?
- (a) Control power supply
 - (b) Portions of Electronic Air Brake system
 - (c) Both (a) and (b)
 - (d) None of the above

93. What does the BCCB (Battery Charge and Computer Circuit Breaker) provide power and protection to in WDG4G locomotive?
- (a) Loco control power supply
 - (b) Controller Units
 - (c) Both (a) and (b)
 - (d) None of the above
94. What type of batteries are used in WDG4G locomotives?
- (a) Ni-Cd batteries
 - (b) Sealed Lead Acid Batteries
 - (c) Nickel-Metal Hydride
 - (d) None of the above
95. Which type of WABTEC locomotives require an external load box for testing on full load?
- (a) WDG4G
 - (b) WDG6G
 - (c) WDG4G & WDG6G
 - (d) None of the above
96. Which type of WABTEC locomotives do not require an external load box for testing on full load?
- (a) WDG4G
 - (b) WDG6G
 - (c) WDG4G & WDG6G
 - (d) None of the above
97. What is the overhauling periodicity of the air compressor motor in WDG4G locomotives?
- (a) 8 years
 - (b) 12 years
 - (c) 4 years
 - (d) None of the above
98. What is the overhauling periodicity of the radiator fan in WDG4G locomotives?
- (a) 8 years
 - (b) 12 years
 - (c) 10 years
 - (d) None of the above
99. What is the probable cause for FTP breaker tripping in WDG4G locomotives?
- (a) FTP inverter defective
 - (b) FTP breaker defective
 - (c) FTP drawing high current
 - (d) All of the above
100. What is the probable cause for Gen Field breaker feedback failure in WDG4G locomotives?
- (a) CIO card issue
 - (b) CIO panel issue
 - (c) Gen Field breaker wiring circuit issue
 - (d) All of the above

101. What is the probable cause for TE not responding in WDG4G locomotives?

- (a) TBC panel defective
- (b) EWIP sensor defective
- (c) TAC panel defective
- (d) All of the above

Answers:

1 (b), 2 (a), 3 (d), 4 (b), 5 (d), 6 (c), 7 (a), 8 (b), 9 (a), 10 (d), 11 (d), 12 (c), 13 (d), 14 (b), 15 (c), 16 (c), 17 (c), 18 (d), 19 (d), 20 (a), 21 (a), 22 (c), 23 (a), 24 (a), 25 (a), 26 (c), 27 (a), 28 (c), 29 (a), 30 (c), 31 (c), 32 (a), 33 (c), 34 (c), 35 (a), 36 (a), 37 (d), 38 (c), 39 (b), 40 (c), 41 (a), 42 (a), 43 (c), 44 (c), 45 (b), 46 (b), 47 (a), 48 (c), 49 (b), 50 (b), 51 (c), 52 (a), 53 (b), 54 (b), 55 (c), 56 (c), 57 (a), 58 (a), 59 (b), 60 (b), 61 (d), 62 (d), 63 (d), 64 (b), 65 (d), 66 (d), 67 (b), 68 (a), 69 (a), 70 (c), 71 (b), 72 (b), 73 (c), 74 (c), 75 (b), 76 (a), 77 (b), 78 (c), 79 (c), 80 (b), 81 (b), 82 (b), 83 (d), 84 (b), 85 (d), 86 (a), 87 (a), 88 (a), 89 (b), 90 (c), 91 (b), 92 (c), 93 (c), 94 (b), 95 (b), 96 (a), 97 (a), 98 (c), 99 (d), 100 (d), 101 (d).

D.DEMU

1. The full form of DEMU is:
 - (a) Diesel electric multiple unit
 - (b) Direct engine motor unit
 - (c) Drive electrical multiple unit
 - (d) None
2. Basic unit of 1400HP DEMU:
 - (a) 01 DPC+03TCs
 - (b) 01 DPC+04TCs
 - (c) 01 DPC+05TCs
 - (d) 01 DPC+02TCs
3. Basic Unit of 1600HP DEMU:
 - (a) 01 DPC+03TCs
 - (b) 01 DPC+04TCs
 - (c) 01 DPC+05TCs
 - (d) 01 DPC+02TCs
4. Schedule of Standard Examination of 1600HP AC-AC BG DEMU:
 - (a) MP.MISC.250
 - (b) MP.MISC.328
 - (c) MP.MISC.157
 - (d) MP.MISC.375
5. Schedule of Standard Examination of 1400HP AC-AC BG DEMU:
 - (a) MP.MISC.250
 - (b) MP.MISC.328
 - (c) MP.MISC.157
 - (d) MP.MISC.375
6. POH periodicity of DEMU Coaches:
 - (a) 18 Months
 - (b) 36 Months
 - (c) 54 Months
 - (d) 72 Months
7. IOH periodicity of DEMU Coaches:
 - (a) 18 Months
 - (b) 9 Months
 - (c) 54 Months
 - (d) 72 Months
8. Codal life of DEMU coaches:
 - (a) 18 years
 - (b) 25 years
 - (c) 20 years
 - (d) 40 years

9. 8th notch RPM of DEMU:
 - (a) 2500
 - (b) 1800
 - (c) 1500
 - (d) 950
10. The full form of LCC fitted in DEMU is:
 - (a) Loco control card
 - (b) Load control cabinet
 - (c) Load control console
 - (d) None
11. The number of traction motors fitted per DPC in DEMU is:
 - (a) 3
 - (b) 4
 - (c) 6
 - (d) 2
12. Type of transmission in 1400HP DEMU:
 - (a) AC-DC
 - (b) DC-DC
 - (c) AC-AC
 - (d) DC-AC
13. Type of transmission in 1600HP DEMU DPC:
 - (a) AC-DC
 - (b) DC-DC
 - (c) AC-AC
 - (d) DC-AC
14. Control circuit voltage of DEMU DPC:
 - (a) 110
 - (b) 75
 - (c) 24
 - (d) 100
15. Periodicity of changing of bearings of 1600HP Traction Motors:
 - (a) 5 Years
 - (b) 4 Years
 - (c) 6 Years
 - (d) 3 Years
16. Periodicity of overhauling of 1600HP Traction Motors:
 - (a) 5 Years
 - (b) 4 Years
 - (c) 6 Years
 - (d) 3 Years
17. Periodicity of overhauling of 1400HP Traction Motors:
 - (a) 18 Months
 - (b) 36 Months

- (c) 12 Months
- (d) 54 Months

18. Periodicity of overhauling of 1400HP Traction Alternator:

- (a) 5 Years
- (b) 4 Years
- (c) 6 Years
- (d) 3 Years

19. Periodicity of overhauling of 1600HP Traction Alternator:

- (a) 5 Years
- (b) 4 Years
- (c) 6 Years
- (d) 3 Years

20. Cranking circuit voltage of DEMU:

- (a) 75V
- (b) 110V
- (c) 24V
- (d) None of the above

21. No. of batteries in cranking circuit:

- (a) 3
- (b) 5
- (c) 8
- (d) 10

22. Rating of batteries in cranking circuit:

- (a) 8V, 500AH
- (b) 6V, 120AH
- (c) 8V, 300AH
- (d) 6V, 100 AH

23. Rating of batteries in control circuit:

- (a) 8V, 500AH
- (b) 6V, 120AH
- (c) 8V, 300AH
- (d) 6V, 100 AH

24. Bull Gear to pinion ratio of 1400 HP DEMU:

- (a) 80:19
- (b) 91:20
- (c) 91:30
- (d) 80:20

25. No. of batteries in control circuit of 1400HP DEMU DPC:

- (a) 12
- (b) 14
- (c) 16
- (d) 18

26. No. of batteries in control circuit of 1600HP DEMU DPC:
- (a) 12
 - (b) 14
 - (c) 16
 - (d) 18
27. Power Supply to coaches in 1400HP DEMU rake is provided by:
- (a) Auxiliary Alternator
 - (b) 24 V Alternator
 - (c) APC
 - (d) None of the above
28. Power Supply to coaches in 1600HP DEMU rake is provided by:
- (a) Auxiliary Alternator
 - (b) 24 V Alternator
 - (c) APC
 - (d) None of the above
29. How many traction motors in DEMU?
- (a) 6
 - (b) 4
 - (c) 2
 - (d) 8
30. If any traction motor isolated in DEMU, what is engine R.P.M.?
- (a) 750
 - (b) 1200
 - (c) 1000
 - (d) 1300
31. How many engine speed sensors available in 1400 HP DEMU?
- (a) 2
 - (b) 1
 - (c) 3
 - (d) 4
32. 1400 HP DEMU engine R.P.M. at idle?
- (a) 400
 - (b) 500
 - (c) 600
 - (d) 700
33. No of power contactors in 1400 HP DEMU?
- (a) 2
 - (b) 6
 - (c) 4
 - (d) 8
34. How many carbon brushes in 1400HP/1600HP traction alternator?
- (a) 2
 - (b) 4

- (c) 6
- (d) 0

35. DEMU head light DC-DC converter input voltage?

- (a) 12 V
- (b) 72 V
- (c) 24 V
- (d) 110 V

36. No of reverser in 1400 HP BHEL DEMU?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

37. How many jumper cables are available in 1400 HP DEMU?

- (a) 4
- (b) 2
- (c) 3
- (d) 5

38. In 1400HP DEMU DPC 24 V alternator drives by no of belts?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

39. 24 V alternator make in 1400 HP DEMU?

- (a) TVS Lukas
- (b) C.G.C.
- (c) BHEL
- (d) KEL

40. 110 V AC alternator make in 1400 HP DEMU?

- (a) TVS Lukas
- (b) C.G.C.
- (c) BHEL
- (d) KEL

41. 1600 HP DEMU engine idle, R.P.M.?

- (a) 700
- (b) 750
- (c) 400
- (d) 600

42. 1400 HP DEMU when the T.M. overloaded I.D. coming the load motor shows?

- (a) Max
- (b) Min.
- (c) Zero
- (d) None of the above

43. 1400 HP DEMU 4th Notch RPM?
(a) 1000
(b) 1200
(c) 1300
(d) 1400
44. No. of poles in DEMU DC Traction Motor is?
(a) 6
(b) 4
(c) 8
(d) 2
45. Cooling type used in DEMU Motors?
(a) Self ventilated
(b) Under ventilation
(c) Forced ventilation
(d) None of the above
46. No. of Inspection covers available for DEMU DC traction motor?
(a) 2
(b) 3
(c) 4
(d) 5
47. Continuous rating of the DEMU 1400HP DEMU DC Traction Motor is?
(a) 550V, 410A, 210KW, 1150RPM
(b) 557V, 415A, 208KW, 1160RPM
(c) 558V, 420A, 214KW, 1170RPM
(d) 560V, 421A, 215KW, 1178RPM
48. No. of brush holders available per DEMU DC motor?
(a) 2
(b) 4
(c) 6
(d) 8
49. No. of brushes per arm is?
(a) 2
(b) 4
(c) 6
(d) 8
50. Type of grease used for lubricating pinion and commutator end in 1400 HP DEMUs is?
(a) Servogem-RR3
(b) Servogram-RR4
(c) Shell Gadus
(d) None of the above
51. Quantity of grease for first fill at pinion end is?
(a) 565 Grams
(b) 570 Grams

- (c) 585 Grams
- (d) None of the above

52. Quantity of grease for first fill at Commutator end is?

- (a) 220 Grams
- (b) 227 Grams
- (c) 230 Grams
- (d) 250 Grams

53. No. of teeth available of DEMU Traction Motor pinion gear is?

- (a) 22
- (b) 20
- (c) 25
- (d) 24

54. Brush grade used in BHEL Motor type TM4303DY is?

- (a) EG14D
- (b) EG16D
- (c) EF14D
- (d) EF16D

55. Condemn size of TM Brush EG 14D is?

- (a) 25mm
- (b) 30mm
- (c) 15mm
- (d) None of the above

56. Type of grease used for lubricating pinion and commutator end in 1600 HP DEMUs is?

- (a) Servogem-RR3
- (b) Servogram-RR4
- (c) Shell Gadus
- (d) None of the above

57. Type of pinion end bearing used in 1400HP DEMU Traction Motors?

- (a) NU328EMC4
- (b) NH320MC4
- (c) NU326EMC4
- (d) None of the above

58. Type of commutator end bearing used in 1400HP DEMU Traction Motors?

- (a) NU328EMC4
- (b) NH320MC4
- (c) NU326EMC4
- (d) None of the above

59. Type of pinion end bearing used in 1600HP DEMU Traction Motors?

- (a) NU328EMC4
- (b) NH322C4
- (c) NU326EMC4
- (d) None of the above

60. Type of commutator end bearing used in 1600HP DEMU Traction Motors?

- (a) NU328EMC4
- (b) NH3222C4
- (c) NUJ318C4
- (d) None of the above

61. No of reverser in 1400 HP CGL DEMU?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Answers

1 (a), 2 (a), 3 (b), 4 (b), 5 (c), 6 (a), 7 (b), 8 (b), 9 (b), 10 (c), 11 (b), 12 (a), 13 (c), 14 (a), 15 (c), 16 (c), 17 (a), 18 (d), 19 (d), 20 (c), 21 (a), 22 (a), 23 (b), 24 (b), 25 (d), 26 (c), 27 (a), 28 (c), 29 (b), 30 (d), 31 (a), 32 (d), 33 (c), 34 (d), 35 (d), 36 (b), 37 (d), 38 (a), 39 (a), 40 (d), 41 (b), 42 (c), 43 (c), 44 (b), 45 (a), 46 (b), 47 (b), 48 (b), 49 (a), 50 (a), 51 (a), 52 (b), 53 (b), 54 (a), 55 (a), 56 (c), 57 (a), 58 (b), 59 (b), 60 (c), 61 (a)

E.WAG7 Locomotives

1. In WAG7 locos, when BPSW is pressed, valve energizes for quicker creation of BP pressure.
 - (a) MV4
 - (b) R6
 - (c) VEF electrical
 - (d) IP
2. In WAG7 locos, During BP pressure leakage information, lamp glows in signaling panel.
 - (a) LSDJ
 - (b) LSP
 - (c) LSAF
 - (d) LSB
3. In WAG7 locos, The C145 contactor position is.....when MP is in braking side.
 - (a) close
 - (b) open
 - (c) neither close nor open
 - (d) either close or open
4. In WAG7 locos, When MP is in braking side, the CTF1, CTF2 & CTF3 handles position are
 - (a) CTF1, CTF2, CTF3 up
 - (b) CTF1, CTF2 & CTF3 down
 - (c) CTF1, CTF2 down & CTF3 up
 - (d) CTF1, CTF2 up & CTF3 down
5. In WAG7 locos, Auto sanding is done by the energization of.....Relay.
 - (a) Q44
 - (b) Q49
 - (c) Q48
 - (d) Q50
6. In WAG7 locos, Relay Q46 is called as.....relay.
 - (a) GR half notch protection relay
 - (b) Auxiliaries protection relay
 - (c) GR full notch protection Relay
 - (d) DJ protection relay
7. In WAG7 locos, Relay Q118 is called as.....relay.
 - (a) GR half notch protection relay
 - (b) Auxiliaries protection relay
 - (c) GR full notch protection relay
 - (d) DJ protection relay
8. In WAG7 locos, On closing BLDJ, pressing BLRDJ, LSDJ remains glowing means Tripping failure.
 - (a) Operation A beginning
 - (b) ICDJ
 - (c) Operation A ending
 - (d) Mechanical locking of DJ

9. In WAG7 locos, While checking the reasons for ICDJ, the panto raised condition indicates & fuses are in good condition.
 - (a) CCDJ & CCPT
 - (b) Addl CCBA & CCA
 - (c) CCBA & CCPT
 - (d) Addl CCBA & CCDJ
10. In WAG7 locos, Earth fault in Q44 relay coil causes.....fuse to melt.
 - (a) CCPT
 - (b) CCDJ
 - (c) CCBA
 - (d) Addl.CCBA
11. In WAG7 locos, Permanent welding of the tips of C106 contactor causestripping failure.
 - (a) No tension
 - (b) 6th notch tripping
 - (c) ICDJ
 - (d) Operation 'O'
12. In WAG7 locos, For closing of DJ.....push button switch can be used.
 - (a) BP1DJ
 - (b) BPP
 - (c) BP2DJ
 - (d) BPR
13. In WAG7 locos, In emergency DJ can be tripped by ALP by pressingpush button switch in cab-2.
 - (a) BP1DJ
 - (b) BPP
 - (c) BP2DJ
 - (d) BPR
14. In WAG7 locos, LSCHBA glowing on run, but DJ is not tripped indicatesor.....equipment is defective.
 - (a) QV61 or CHBA
 - (b) ARNO or CHBA
 - (c) QCVAR or ARNO
 - (d) ARNO or QV61
15. In WAG7 locos, Sluggish operation of GR causes tripping of DJ throughrelay.
 - (a) Q118
 - (b) Q44
 - (c) Q50
 - (d) Q45
16. In WAG7 locos, Struck up of GR in full notches during quick regression causes tripping of DJ through.....relay energisation.
 - (a) Q46
 - (b) Q118

- (c) Q44
- (d) Q48

17. In WAG7 locos, If relay Q44 is wedged, the precautions for relay also to be observed along with Q44 relay precautions.
- (a) Q45
 - (b) Q118
 - (c) QCVAR
 - (d) None of the above
18. In WAG7 locos, When MPJ is kept in Reverse direction in cab2, the J1 & J2 handles position are.....
- (a) J1 up, J2 down
 - (b) J1 down, J2 up
 - (c) both J1, J2 down
 - (d) both J1, J2 up
19. In WAG7 locos, In Static converter loco, to work MCPs.....&..... relays should be energized.
- (a) QCON & QTD101
 - (b) QTD101
 - (c) QCON
 - (d) Q100
20. In WAG7 locos, Time delay of QTD 101 relay is.....seconds.
- (a) 2
 - (b) 5
 - (c) 0.6
 - (d) 60
21. In WAG7 locos, In SIV locos, switch is to be kept on '0', in the event of external earth fault and unable to rectify and to work the train further.
- (a) HSIV
 - (b) HVSI
 - (c) HBA
 - (d) HCHBA
22. In WAG7 locos, In SIV locos, C108 contactor is provided for.....motor.
- (a) AC MVRF
 - (b) DC MVRF
 - (c) SIV rectifier
 - (d) SIV inverter
23. In WAG7 locos, Time delay of QSVM relay is.....seconds.
- (a) 5
 - (b) 2
 - (c) 0.6
 - (d) 60

24. In WAG7 locos,.....&.....safety relays are removed in static converter locos.
- (a) QLM & QLA
 - (b) QOP 1 & 2
 - (c) QRSI 1 & 2
 - (d) QOA & QLA
25. In WAG7 locos, In Microprocessor loco, if experienced TLTE due to malfunctioning of AFL/ACP circuit, change the position of.....switch.
- (a) HAD
 - (b) HRSZ
 - (c) HPAR
 - (d) HBA
26. In WAG7 locos, To avoid QD action in microprocessor loco, switch to be pressed up to 10th notch.
- (a) BPQD
 - (b) BPSW
 - (c) ZQWC
 - (d) PSA
27. In WAG7 locos, Location of CHBA ammeter in SIV locos.....
- (a) On SIV panel
 - (b) On switch panel
 - (c) On relay panel
 - (d) On CHBA
28. In WAG7 locos, Rating of CCINV is.....Amps.
- (a) 6
 - (b) 16
 - (c) 10
 - (d) 2
29. In WAG7 locos, HRAVT is provided to isolate..... equipment.
- (a) Static converter
 - (b) Microprocessor
 - (c) Heaters, cab fans, NR & W/T charger
 - (d) None of these
30. In WAG7 locos, When static converter is not working fuse(s) to be checked.
- (a) CCINV
 - (b) CCDJ
 - (c) CCA
 - (d) CCINV & CCA
31. In WAG7 locos, In static converter locos compressors will start with a delay ofseconds after extinguishing of LSCHBA.
- (a) 2
 - (b) 5
 - (c) 60
 - (d) 45

32. In WAG7 locos, When SIV is working.....relay energises.
- (a) QSIT
 - (b) QCON
 - (c) QCVAR
 - (d) None of these
33. In WAG7 locos,.....&.....time delay relays are removed in static converter locos.
- (a) QTD105 & 106
 - (b) QTD100 & 101
 - (c) QTD107 & 108
 - (d) None of these
34. In WAG7 locos, The correct preparation for traction as well as braking is supervised by.....relay.
- (a) Q-52
 - (b) Q-51
 - (c) Q-50
 - (d) Q-49
35. O In WAG7 locos, n Siemens make SIV loco panel.....& lamps glows continuously in normal working of SIV.
- (a) LSSIT & CHBA ON
 - (b) CHBA ON & SIV ON
 - (c) External & Internal fault
 - (d) OHE out of range & SIV ON
36. In WAG7 locos, If earth fault occurs in outside of SIV, lamp glows on SIV panel.
- (a) OHE out of range
 - (b) External fault
 - (c) Internal fault
 - (d) None of the above
37. In WAG7 locos, In static converter loco DJ control circuit, on MTDJ branchrelay inter lock provided in place of QOA & QLA.
- (a) QSIT
 - (b) QCON
 - (c) QSVM
 - (d) None of these
38. In WAG7 locos, QWC relay's action is up to notch, when ZQWC is pressed (18 shunting contactors loco).
- (a) 20
 - (b) 15
 - (c) 10
 - (d) 1
39. In WAG7 locos, During RB, working of MVRF is indicated through Lamp.
- (a) LSAFL
 - (b) LSDBR

- (c) LSOL
- (d) LSGRPT

40. In WAG7 locos, In Static inverter fitted loco lamp is provided to indicate the tripping of static inverter.

- (a) QSIT
- (b) LSGRPT
- (c) LSSIT
- (d) LSAF

41. In WAG7 locos, If signaling lamps are not working defect maybe with.....Fuses.

- (a) CCBA & Addl.CCBA
- (b) CCPT & CCLS
- (c) CCLC & CCBA
- (d) Addl.CCBA & CCLS

42. In WAG7 locos, While working with MU, If DJ is tripped in trailing loco
.....&.....lamps will glow in leading loco.

- (a) LSDJ & LSGRPT
- (b) LSOL & LSOL
- (c) LSOL & LSGRPT
- (d) LSDJ, LSCHBA, LSB & LSOL

43. In conventional locos, when VCD is acted,.....actions will take place.

- (a) Auto regression and BP drops
- (b) DJ trips
- (c) Panto lowers
- (d) None of the above

44. In WAG7 locos, When BPEMS is pressed, actions will take place.

- (a) DJ trips
- (b) Panto lowers
- (c) BP drops
- (d) All the above

45. In conventional locos, before resetting VCD, to be operated.

- (a) HBA to be kept in '0' and '1'
- (b) MP to be kept on '0'
- (c) ZPT to be kept in '0' and '1'
- (d) MPJ to be moved to '0'

46. In conventional locos, in case of any malfunctioning, to isolate VCD, keep.....switch in 'OFF' position.

- (a) VCD By pass
- (b) Reset
- (c) Acknowledgement
- (d) None of the above

47. In WAG7 locos, Controlling fuse for SMGR control circuit is.....

- (a) CCPT
- (b) CCA

- (c) CCBA
 - (d) CCDJ
48. In WAG7 locos, While operating GR manually equipment to be observed.
- (a) PHGR
 - (b) RPGR
 - (c) CGR arc-chutes
 - (d) RGR
49. In WAG7 locos, For operating GR manually take out ZSMGR handle from.....position.
- (a) 6 O'clock
 - (b) 7 O'clock
 - (c) 3 O'clock
 - (d) 5 O'clock
50. In WAG7 locos, During dynamic braking, all traction motor fields are connected in-----
- (a) Parallel
 - (b) Series
 - (c) Series-parallel
 - (d) None of the above
51. In WAG7 locos, QD actions are
- (a) Auto regression of few notches
 - (b) Auto sanding
 - (c) LSP glows
 - (d) All the above
52. In WAG7 locos, when C106 is not closed, try by keeping switch on position.
- (a) HVMT-2,2
 - (b) HVMT-2,0
 - (c) HVMT-2,1
 - (d) HVMT-2,3
53. In WAG7 locos, On closing HBA and ZUBA, if UBA reads zero volts.....Fuse to be checked.
- (a) CCBA
 - (b) Addl CCBA
 - (c) CCA
 - (d) CCPT
54. The OHE supply of two traction substations is separated by-----
- (a) Neutral section
 - (b) SP
 - (c) SSP
 - (d) TSS
55. In conventional locos, to close DJ BL switches to be operated.
- (a) BLDJ
 - (b) BLRDJ
 - (c) BLDJ, BLRDJ
 - (d) BLSN

56. In WAG7 locos, If MVSL-2 is not working, work the train by isolating.....

- (a) No restriction for TM
- (b) isolate bogie-2 current ratings
- (c) Work 50% load
- (d) Above all

57. Transformer rating in WAG-7 loco is

- (a) 5400 KVA
- (b) 6531 KVA
- (c) 7475 KVA
- (d) 7775 KVA

58. Type of traction motor used in WAG-7 loco is

- (a) 3-phase induction motor
- (b) Single phase induction motor
- (c) DC shunt motor
- (d) DC series motor

59. No. of oil pumps (MPH) used in WAG-7 loco are

- (a) 1
- (b) 2
- (c) 3
- (d) 4

60. In WAG-7 loco to prevent over voltage in TM, the relay used is

- (a) QOP
- (b) QRSI
- (c) QOA
- (d) Q-20

61. In WAG-7 loco, cab fans are supplied at

- (a) 24 volts DC
- (b) 32 volts AC
- (c) 48 volts DC
- (d) 110 volts AC

62. Horse power of WAG-7 loco is

- (a) 5000 HP
- (b) 3850 HP
- (c) 6000 HP
- (d) None of above

63. In WAG-7 loco Maximum number of notches by master controller (MP) is

- (a) 30
- (b) 31
- (c) 32
- (d) 34

64. In WAG-7 loco Transformer oil level should be

- (a) Above 15 degree
- (b) Above 10 degree

- (c) Above 5 degree
- (d) None of above

65. In WAG-7 loco following Auxiliary start with ARNO directly

- (a) MVSL
- (b) MPH
- (c) Both A and B
- (d) None of above

66. In WAG-7 loco which relay is connected in primary winding of transformer

- (a) QRSI
- (b) QLM
- (c) QOP
- (d) QOA

67. In WAG-7 loco which pilot lamp indicates malfunctioning of reverser

- (a) LSP
- (b) LSB
- (c) LSCHBA
- (d) LSDJ

68. In WAG-7 loco, which contactor is used during DBR

- (a) C-118
- (b) C-104
- (c) CTF
- (d) C-145

69. In WAG-7 loco non closing of C-105 will cause

- (a) First notch tripping
- (b) Second notch tripping
- (c) Sixth notch tripping
- (d) First notch regression

70. In WAG-7 loco, Relay used for protection of Earth Fault in TM is

- (a) QRSI
- (b) QE
- (c) QOP
- (d) QLM

71. On which pressure DJ close and open in WAG-7 loco

- (a) 4.65 kg/cm², 4.00 kg/cm²
- (b) 4.80 kg/cm², 4.20 kg/cm²
- (c) 5.00 kg/cm², 4.00 kg/cm²
- (d) None of the above

72. In WAG-7 loco, dropout voltage of SMGR PRV is

- (a) 12V min
- (b) 11V min

- (c) 10V min
- (d) 15V min

73. In WAG-7 loco, Progression and regression-time (max.) of SMGR is

- (a) 15 - 10 Sec
- (b) 14 - 10 Sec
- (c) 13 - 09 Sec
- (d) 18 - 12 Sec

74. In WAG -7 loco, while Auxiliary circuit earth fault occurs, which relay operates

- (a) QOP
- (b) QOA
- (c) QF -1 or 2
- (d) None of the above

75. In WAG - 7 loco, all Auxiliary motor is governed by which relay

- (a) Q- 44
- (b) QCVAR
- (c) QPH
- (d) Q -118

76. In WAG-7 loco, First notch tripping occurs by which relay

- (a) QVSL
- (b) QVMT
- (c) QVSI
- (d) QVSL

77. In WAG-7 loco, if SMGR stuck on notch, MP on 0 then DJ trips through which relay

- (a) Q -44
- (b) Q -118
- (c) Q - 46
- (d) Q - 52

78. In WAG-7 loco, the rating of CCRA fuse is

- (a) 6 Amp
- (b) 10 Amp
- (c) 16 Amp
- (d) 32 Amp

79. In WAG-7 loco, when loco is in DBR mode and OHE supply is tripped emergency brakes applied through which valve

- (a) R - 6 valve
- (b) VESA valve
- (c) VEF valve
- (d) IP valve

80. In WAG-7 loco with static convertor, auxiliary earth fault relay is

- (a) QCON
- (b) QOP
- (c) QSIT
- (d) QE

81. In WAG-7 loco with BLVMT on, Time delay for starting of SI unit is ensured by
- (a) QCON
 - (b) QSIT
 - (c) QSVM
 - (d) QFL
82. In WAG-7 loco, Rating of CCPT fuse is
- (a) 16 AMP
 - (b) 6 AMP
 - (c) 10 AMP
 - (d) 32 AMP
83. In WAG-7 loco, LTBA is for
- (a) Aux CKT surge protection
 - (b) Control CKT surge protection
 - (c) Power CKT surge protection
 - (d) None of the above
84. In WAG-7 loco, When HMCS-1 is kept on 4
- (a) TM 1 isolate
 - (b) TM 2 isolate
 - (c) TM 3 isolate
 - (d) TM 4 isolate
85. In WAG-7 loco, EVPHGR operates after
- (a) 1st notch
 - (b) 5th notch
 - (c) 6th notch
 - (d) 11th notch
86. In WAG-7 loco, MPS can be operated after
- (a) 1st notch
 - (b) 6th notch
 - (c) 18th notch
 - (d) 11th notch
87. In WAG-7 loco which transformer is used for breaking excitation
- (a) ATFEX
 - (b) TFVT
 - (c) RTPR
 - (d) TFILM
88. Which 3-pole contactor is used for MVRH
- (a) C 103
 - (b) C 107
 - (c) C 106
 - (d) C 105
89. In WAG-7 loco, the output DC voltage of RSI block is
- (a) 1000 VDC
 - (b) 1200 VDC

- (c) 1050 VDC
 - (d) 1020 VDC
90. In WAG-7 loco, the function of ARNO is
- (a) To convert three phase to single phase
 - (b) To Convert DC to AC supply
 - (c) To convert AC to DC supply
 - (d) To convert single phase to three phase
91. In WAG-7 loco, no. of inductive shunts (SJ) is
- (a) 3 Nos
 - (b) 1 No
 - (c) 4 Nos
 - (d) 2 Nos
92. In WAG-7 loco, RPS are used for
- (a) Field weakening
 - (b) Extra resistance
 - (c) Speed decrease
 - (d) Braking purpose
93. Current transformer ratio of QLM relay in WAG-7 loco is
- (a) 250/1
 - (b) 300/1
 - (c) 250/5
 - (d) 300/5
94. In WAG-7 loco, minimum pick up current setting of QD relay is
- (a) 80 A
 - (b) 160 A
 - (c) 175 A
 - (d) 200 A
95. Air Drier is provided for
- (a) Improving Brake Power
 - (b) Remove Moisture from Compressed Air
 - (c) Improve efficiency of CP
 - (d) None
96. Input supply in TFVT of SI unit loco is
- (a) 230 V AC
 - (b) 415 V AC
 - (c) 110 V AC
 - (d) 25 KV
97. Which brake valve is used for operating both loco brake and train brake
- (a) A-9
 - (b) SA-9
 - (c) Double check valve
 - (d) F1 selector

98. What is the purpose of UST of Armature shaft
- (a) To know material composition
 - (b) To know Dimension
 - (c) To detect internal crack
 - (d) To know finishing
99. Q-46 Relay is
- (a) Notch to notch relay
 - (b) Full notch protection relay
 - (c) Half notch protection relay
 - (d) Synchronizing relay
100. Minimum pressure required to raise the pantograph in WAG-7 loco is
- (a) 6.5 kg/cm²
 - (b) 10.0 kg/cm²
 - (c) 4.5 kg/cm²
 - (d) 5.5 kg/cm²
101. What will happen if foreign body is engaged in gap of ET-1
- (a) OHE will trip when pantograph raised
 - (b) OHE will trip when DJ closes
 - (c) Main transformer will grounded
 - (d) Nothing will happen
102. Which end of the Battery is connected to earth in WAG7 locos
- (a) Phase
 - (b) Negative
 - (c) Neutral
 - (d) Positive
103. Which relay is protecting TM from over voltage
- (a) Q-30
 - (b) Q-20
 - (c) Q-100
 - (d) Q-50
104. Which relay protects ARNO from over current
- (a) QLA
 - (b) QOA
 - (c) Q-20
 - (d) Q-30
105. Which relay among these is a pneumatic relay
- (a) QWC
 - (b) QCVAR
 - (c) QPH
 - (d) QPDJ
106. QOA and QLA are replaced by which relay in SIV provided WAG-7 loco (As compared with ARNO)
- (a) QCON
 - (b) QSIT

- (c) QSVM
 - (d) QTD-101
107. Loco is grounded through
- (a) BL key
 - (b) HOBA
 - (c) HOM
 - (d) ZSMGR
108. The UBA measuring instrument is used to measure
- (a) Battery Voltage
 - (b) Auxiliary Circuit Voltage
 - (c) Traction motor Voltage
 - (d) None of the above
109. While operating GR manually GR shall be rotated within.....seconds
- (a) 0.5
 - (b) 0.6
 - (c) 5
 - (d) None of the above
110. Whenever DJ is tripped on notches GR comes to zero by...relay
- (a) Q52
 - (b) Q51
 - (c) Q46
 - (d) Q50
111. While operating GR manually MP should be placed in....Position
- (a) Q52
 - (b) Q51
 - (c) Q46
 - (d) Q50
112. When C107 is not closed, try by keeping.....switch on...position
- (a) HVRH,2
 - (b) HVRH,3
 - (c) HVRH,1
 - (d) HVRH,0

Answers:

1 (a), 2 (c), 3 (a), 4 (b), 5 (c), 6 (c), 7 (b), 8 (b), 9 (c), 10 (a), 11 (b), 12 (c), 13 (a), 14 (a), 15 (b), 16 (a), 17 (b), 18 (d), 19 (a), 20 (b), 21 (a), 22 (a), 23 (b), 24 (d), 25 (c), 26 (a), 27 (a), 28 (a), 29 (c), 30 (d), 31 (b), 32 (b), 33 (a), 34 (c), 35 (b), 36 (b), 37 (a), 38 (c), 39 (b), 40 (c), 41 (d), 42 (d), 43 (a), 44 (d), 45 (b), 46 (a), 47 (a), 48 (d), 49 (c), 50 (b), 51 (d), 52 (d), 53 (b), 54 (a), 55 (c), 56 (d), 57 (a), 58 (d), 59 (a), 60 (d), 61 (d), 62 (a), 63 (c), 64 (a), 65 (c), 66 (b), 67 (c), 68 (d), 69 (c), 70 (c), 71 (a), 72 (b), 73 (c), 74 (b), 75 (d), 76 (c), 77 (c), 78 (c), 79 (d), 80 (c), 81 (c), 82 (c), 83 (b), 84 (c), 85 (c), 86 (c), 87 (a), 88 (b), 89 (a), 90 (d), 91 (a), 92 (a), 93 (c), 94 (b), 95 (b), 96 (b), 97 (a), 98 (c), 99 (b), 100 (c), 101 (a), 102 (b), 103 (b), 104 (a), 105 (d), 106 (b), 107 (c), 108 (a), 109 (a), 110 (d), 111 (d), 112 (b).

F. WAG9 locomotives.

1. A three-Phase loco has how many roof bars?
 - (a) 2
 - (b) 3
 - (c) 4
 - (d) 3+3
2. In a 3-PHASE loco, SS 06 belongs to which subsystem?
 - (a) Auxiliary converter No. 1
 - (b) Auxiliary converter No. 2
 - (c) Auxiliary converter No. 3
 - (d) Traction converter No. 1
3. In a 3-PHASE loco, to isolate panto No. 1, keep the panto selector switch in which position?
 - (a) AUTO
 - (b) I
 - (c) II
 - (d) II & I
4. In a 3-PHASE loco, to switch on the flasher light, which switch should be operated?
 - (a) AFL
 - (b) BPFL
 - (c) ZFL
 - (d) Auto brake
5. In a 3-PHASE loco, SS 03 belongs to which subsystem?
 - (a) Traction bogie 1
 - (b) Traction bogie 2
 - (c) Main power
 - (d) Harmonic filter
6. In a 3-PHASE loco, SS 01 belongs to which subsystem?
 - (a) Traction bogie 1
 - (b) Traction bogie 2
 - (c) Main power
 - (d) Harmonic filter
7. In a 3-PHASE loco, the loco grounding key (HOM operates with which key)?
 - (a) Solenoid valve No. 30
 - (b) IG 68
 - (c) IG 38
 - (d) E 70
8. In a 3-PHASE loco, the 3-PHASE scavenging blower collects dust from air filters of which components?
 - (a) Oil cooling blower
 - (b) Machine room blower
 - (c) Bogie blower
 - (d) Oil cooling blower & Bogie blower

9. In a 3-PHASE loco, SS 02 belongs to which subsystem?
- (a) Traction bogie 1
 - (b) Main power
 - (c) Traction bogie 2
 - (d) Harmonic filter
10. In a 3-PHASE loco, machine room blowers and their scavenging blowers work in which mode(s)?
- (a) Driving mode only
 - (b) Cooling mode only
 - (c) Off
 - (d) Driving mode & cooling mode
11. In a 3-PHASE loco, what is the normal position of the 152 switch?
- (a) 0
 - (b) 1
 - (c) Norm
 - (d) None of the above
12. In a 3-PHASE loco, what are the positions of the 154 switch?
- (a) I, II
 - (b) Norm, I, II and I & II
 - (c) Norm, 0 & 1
 - (d) Norm, I, II and I & II
13. In a 3-PHASE loco, SS 04 belongs to which subsystem?
- (a) Traction bogie 1
 - (b) Traction bogie 1
 - (c) Main power
 - (d) Harmonic filter
14. In a 3-PHASE loco, SS 08 belongs to which subsystem?
- (a) Auxiliary converter No. 1
 - (b) Auxiliary converter No. 2
 - (c) Auxiliary converter No. 3
 - (d) Battery
15. In a 3-PHASE loco, SS 05 belongs to which subsystem?
- (a) Harmonic filter
 - (b) Battery
 - (c) Batteries
 - (d) Hotel load
16. A three Phase loco is fitted with which type of traction motors?
- (a) 3 -PHASE AC Asynchronous squirrel cage induction motor
 - (b) TAO 659
 - (c) Hitachi
 - (d) Hitachi or TAO 659

17. In a 3-PHASE loco, continuous glowing of LSFI indicates what?
- (a) Priority 1 fault
 - (b) Priority 2 fault
 - (c) At least one subsystem is isolated
 - (d) Priority 1 fault or Priority 2 fault
18. In a 3-PHASE loco, what is the position of control electronics (CE) during cab changing?
- (a) OFF
 - (b) ON
 - (c) Self hold mode
 - (d) None of the above
19. In a 3-PHASE loco, where is the location of the BPFL switch?
- (a) FLCU
 - (b) In both cabs Panel A
 - (c) In both cabs Panel B
 - (d) In both cabs Panel C
20. In a 3-PHASE loco, during self hold mode, how long will CE remain ON?
- (a) 15 minutes
 - (b) 10 minutes
 - (c) 20 minutes
 - (d) Will not switch OFF
21. In a 3-PHASE loco, if the throttle (ATDC) fails, keep which switch in which position?
- (a) 154, 0
 - (b) 152, 0
 - (c) 152, 1
 - (d) 160, 1
22. In a 3-PHASE loco, when parking brakes are applied, what does the parking brake gauge show?
- (a) 0 Kg/cm²
 - (b) 3.5 Kg/cm²
 - (c) 4 Kg/cm²
 - (d) 6 Kg/cm²
23. In a 3-PHASE loco, SS 15 belongs to which subsystem?
- (a) Cab 2
 - (b) Memotel (Speedometer)
 - (c) Fire detection
 - (d) Processor FLG1
24. Where is the emergency stop push button switch located in a 3-Phase loco?
- (a) In both cabs Panel A
 - (b) In both cabs Panel B
 - (c) In both cabs Panel C
 - (d) In both cabs Panel D

25. A 3-Phase loco has how many auxiliary converters?
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
26. In a 3-PHASE loco, when the harmonic filter is isolated, what is the speed restriction of the train?
- (a) 60 Kmph
 - (b) 40 Kmph
 - (c) 25 Kmph
 - (d) No such restriction
27. In a 3-PHASE loco, where is the location of Bogie blower No. 2?
- (a) Machine room No. 1 (near cab-2)
 - (b) Machine room No. 2 (near cab1)
 - (c) Under machine room No. 1
 - (d) Under machine room No. 2
28. In a 3-PHASE loco from Cab 1, if both side head lights are not working, which MCB should be checked in the SB1 panel?
- (a) 310.1/1
 - (b) 310.1/3
 - (c) 310.1/2
 - (d) 112.1
29. In a 3-PHASE loco, before operating the throttle, which node information should be ensured on the screen?
- (a) FLG 504
 - (b) FLG 550
 - (c) FLG 570
 - (d) FLG 590
30. In a 3-PHASE loco, what is the loco grounding switch?
- (a) HOM
 - (b) BL key
 - (c) Blue KABA key (IG 38)
 - (d) HPT
31. In a 3-PHASE loco, the oil cooling blower cools which oils?
- (a) SR-1, SR-2
 - (b) TFP-1, TFP-2
 - (c) TFP oil & SR oil
 - (d) Traction motors
32. In a 3-PHASE loco, to isolate truck No. 1 (traction converter-1), keep which switch in which position?
- (a) 154, I position
 - (b) 154, II position

- (c) 154, Auto position
 - (d) 154, I & II position
33. In a 3-PHASE loco, if battery voltage drops to how many volts for 30 seconds, a P2 message appears?
- (a) 92 Volts
 - (b) 82 Volts
 - (c) 90 Volts
 - (d) 85 Volts
34. In a 3-PHASE loco, SS 16 belongs to which subsystem?
- (a) Cab 2
 - (b) Fire detection
 - (c) Memotel (Speedometer)
 - (d) Processor FLG1
35. In a 3-PHASE loco, what is the normal position of the panto selector switch?
- (a) Norm
 - (b) I
 - (c) II
 - (d) Auto
36. In a 3-PHASE loco, where is the location of the Fire Detection Unit (FDU)?
- (a) SB 1
 - (b) SB 2
 - (c) HB 2
 - (d) HB1
37. Battery voltage in a three-Phase loco should be above how many volts?
- (a) 85
 - (b) 90
 - (c) 92
 - (d) 110
38. A three-Phase loco has how many battery boxes?
- (a) 2
 - (b) 4
 - (c) 6
 - (d) 32
39. In a 3-PHASE loco, to operate the reverser, ensure which node information on the screen and MR pressure should be more than 6.4 kg/cm²?
- (a) FLG 504
 - (b) FLG 550
 - (c) FLG 570
 - (d) FLG 590
40. In a 3-PHASE loco, what is the battery charger input MCB number and its location?
- (a) 100, HB-1

- (b) 100, HB-2
- (c) 112.1, SB-2
- (d) 112, SB-1

41. What is the over current relay in a three-Phase loco?

- (a) OCR 86
- (b) MVR 86
- (c) OCR 78
- (d) None of the above

42. In a 3-PHASE loco, SS 18 belongs to which subsystem?

- (a) Fire detection
- (b) Memotel
- (c) Processor FLG 1
- (d) Processor FLG 2

43. In a 3-PHASE loco, what is the normal position of the ZTEL switch?

- (a) ON
- (b) OFF
- (c) Norm
- (d) Zero

44. In a 3-PHASE loco, to close the DJ, ensure which node information on the screen (in driving mode)?

- (a) FLG 504
- (b) FLG 550
- (c) FLG 570
- (d) FLG 590

45. When ZTEL is switched ON, what is the tractive effort (TE) limited to in a WAG 9?

- (a) 0.8 to 1.5 kN
- (b) 300 kN
- (c) 150 kN
- (d) 458 kN

46. In a 3-PHASE loco, to isolate panto No. 2, keep the panto selector switch in which position and close which COC?

- (a) Auto, PAN 1 & 2
- (b) II, PAN 1
- (c) I, PAN 2
- (d) I & II, PAN 1 or 2

47. In a 3-PHASE loco from cab 2, if both side head lights are not working, which MCB should be checked in the SB2 panel?

- (a) 310.1/1
- (b) 310.1/3
- (c) 310.1/4
- (d) 310.1/2

48. While a 3-PHASE loco is working as a banker, which switch should be put on and which cut-out cock closed in the pneumatic panel?
- (a) ZTEL
 - (b) ZBAN
 - (c) BLNO
 - (d) None of the above
49. For resetting VCD in a WAG 9 loco, how many seconds should you wait?
- (a) 120
 - (b) 100
 - (c) 240
 - (d) 160
50. Where is the location of MCP 2 in a three-Phase loco?
- (a) Machine room No. 1
 - (b) Machine room No. 2
 - (c) Loco left side below Machine room No. 1
 - (d) Loco right side below Machine room No. 2
51. In a 3-PHASE loco, SS 17 belongs to which subsystem?
- (a) Fire detection
 - (b) Memotel
 - (c) Processor FLG 1
 - (d) Processor FLG 2
52. Before performing shunting with a 3-PHASE loco, keep which switch in which position?
- (a) 154; 0
 - (b) 154; 1
 - (c) 160; 0
 - (d) 160; 1
53. While working with WAP 7 or WAG 9 with a light load, if the harmonic filter is isolated, work with normal speed after isolating what?
- (a) Auxiliary converter-1
 - (b) Traction converter-1 & 2
 - (c) Auxiliary converter-2
 - (d) Traction converter-1
54. In a 3-PHASE loco, to isolate VCD, keep which switch in which position?
- (a) 154, 1
 - (b) 154, 0
 - (c) 237.1, 0
 - (d) 237.1, 1
55. In a 3-PHASE loco, the battery charger gets supply from what?
- (a) Auxiliary converter No. 1
 - (b) Auxiliary converter No. 2
 - (c) Traction converter No. 1
 - (d) Auxiliary converter No. 3

56. In a 3-PHASE loco, if the battery voltage drops below how many volts, will the loco shut down?
- (a) 82 Volts
 - (b) 87 Volts
 - (c) 90 Volts
 - (d) 92 Volts
57. In a 3-PHASE loco, what is the battery charger output MCB number and its location?
- (a) 110; SB 1
 - (b) 110; SB 2
 - (c) 100; HB 1
 - (d) 100; HB 2
58. In three-Phase locos, what is the normal position of the direct brake handle (SA9) in the rear cab?
- (a) Apply
 - (b) Release
 - (c) FS & Locked
 - (d) None of the above
59. What are the input and output of the potential transformer respectively?
- (a) 25 / 100
 - (b) 25 / 200
 - (c) 25 / 300
 - (d) 25 / 400
60. In M/s BHEL make IGBT locomotives TM1 firing is controlled by what?
- (a) DCU1
 - (b) DCU2
 - (c) DCU3
 - (d) DCU4
61. The 25A8 module is controlled by what in M/s BHEL make IGBT SR?
- (a) DCU1
 - (b) DCU2
 - (c) DCU3
 - (d) DCU4
62. The pre-charging contactor in SR is used for what?
- (a) Reducing inrush current
 - (b) Reducing over current
 - (c) Reducing inrush voltage
 - (d) Reducing over voltage
63. When MCB 63.1/2 is tripped, what does it consequently lead to?
- (a) Bogie working due to low converter oil temperature
 - (b) Bogie working due to high converter oil temperature
 - (c) Bogie isolation due to high inverter oil temperature
 - (d) None of the above

64. The 411 location indicates what?

- (a) VCU2 rack
- (b) VCU1 rack
- (c) VCD rack
- (d) None of the above

65. What are the limits of OHE voltage during the working of a WAG9 locomotive?

- (a) 15.5 kV and 30 kV
- (b) 17.5 kV and 25 kV
- (c) 17.5 kV and 30 kV
- (d) 17.5 kV and 35 kV

66. If the temperature of SR exceeds what degrees, then TE/BE is reduced to "0", and if it exceeds what degrees, the VCB will be off?

- (a) 50, 80
- (b) 64, 85
- (c) 60, 80
- (d) 64, 80

67. The letters V-O-F on the cab buzzer indicate what?

- (a) Over speed and Fire
- (b) Vigilance and Fire
- (c) Vigilance, over speed and Fire
- (d) Vigilance, over speed

68. What does self-hold mode mean?

- (a) CE will remain active for 1 min
- (b) CE will remain active for 10 mins
- (c) CE will be off
- (d) CE will remain active for 12 mins

69. The fault message F0101p1 results in what?

- (a) Harmonic power off
- (b) Main power off
- (c) Aux power off
- (d) None of the above

70. The S/R interlock activates after attaining what speed?

- (a) 8 KMPH
- (b) 10 KMPH
- (c) 20 KMPH
- (d) 5 KMPH

71. In which mode can the working of VCD be tested on a standstill position in 3-PHASE locomotives?

- (a) LT
- (b) Simulation
- (c) HT
- (d) None of the above

72. What does ZBV stand for?

- (a) Train bus
- (b) MU train bus
- (c) Dead loco train bus
- (d) None of the above

73. In a 3-PHASE loco, to isolate panto No. 2, keep the panto selector switch in which position and close which COC?

- (a) Auto, PAN-1 & 2
- (b) II, PAN-1
- (c) I, PAN-2
- (d) I or II, PAN-1 or 2

74. In a 3-PHASE loco, the battery charger gets supply from what?

- (a) Auxiliary converter-1
- (b) Auxiliary converter-3
- (c) Auxiliary converter-2
- (d) Traction converter-1

75. While energizing a 3-PHASE loco, if the UBA meter is showing "0" and corridor lights are also not glowing, which MCBs should be checked?

- (a) 100; 110
- (b) 110; 112
- (c) 100; 112.1
- (d) 112; 112.1

76. In a 3-PHASE loco, if the battery voltage drops below how many volts, will the loco shut down?

- (a) 90
- (b) 92
- (c) 87
- (d) 82

77. In a 3-PHASE loco, what is the battery charger output MCB number and its location?

- (a) 110; SB1
- (b) 100; HB2
- (c) 110; SB2
- (d) 100; HB1

78. In a 3-PHASE loco, VCD is required to be acknowledged from what speed?

- (a) 1.5 kmph
- (b) 5 kmph
- (c) 15 kmph
- (d) 1 kmph

79. During loco brake testing of WAG-9, the loco should not move up to how many kN?

- (a) 100
- (b) 300

- (c) 150
- (d) 200

80. In a 3-PHASE loco, Auxiliary converter No. 2 feeds which motors?

- (a) Traction motor blower-1 & 2
- (b) SR Oil pump-1 & 2
- (c) Transformer oil pump-1 & 2
- (d) All of the above

81. In a 3-PHASE loco, SS-10 belongs to which subsystem?

- (a) Battery
- (b) Auxiliary converter No. 3
- (c) Brake system
- (d) Auxiliaries HB1

82. In a 3-PHASE loco, the potential transformer is connected to which roof bar?

- (a) Panto-1
- (b) Middle
- (c) Panto-2
- (d) None of the above

83. In a 3-PHASE loco, if "Centenary voltage out of limit" appears on the screen, what should be changed after lowering the panto and trying?

- (a) Potential Transformer
- (b) FL
- (c) CCBA
- (d) UBA

84. In a 3-PHASE loco, to reset the Fire Detection Unit (FDU), which button should be pressed?

- (a) Press Reset button on FDU
- (b) ESPB
- (c) BPVR
- (d) BPFA

85. In which gradient area and terminal goods yards should the constant speed control (CSC) of a 3-PHASE loco not be used?

- (a) Undulating
- (b) UP
- (c) DOWN
- (d) Steep Down

86. A 3-PHASE loco has how many auxiliary converters?

- (a) 3
- (b) 1
- (c) 2
- (d) 4

87. In a 3-PHASE loco, what is the position of control electronics (CE) during cab changing?
- (a) Self hold mode
 - (b) Off
 - (c) On
 - (d) None of the above
88. In a 3-PHASE loco, where is the location of the BPFL switch?
- (a) In both cabs Panel C
 - (b) FLCU
 - (c) In both cabs Panel A
 - (d) In both cabs Panel B
89. In a 3-PHASE loco, glowing of BPFA and flickering of LSFI indicates which fault?
- (a) Priority-1
 - (b) Isolation of subsystem
 - (c) Priority-2
 - (d) Both Priority-1 & 2 faults at a time
90. In 3-PHASE locos, VCD is required to acknowledge once in every how many seconds?
- (a) 160
 - (b) 8
 - (c) 68
 - (d) 60
91. In a 3-PHASE loco, on run, glowing of BPFA alone indicates which fault?
- (a) Priority-2
 - (b) Priority-1
 - (c) One of the subsystems is isolated
 - (d) Priority-1 fault or Priority-2 fault
92. Where is the location of harmonic filter resistances in a 3-PHASE loco?
- (a) Loco roof
 - (b) Inside FB
 - (c) Machine room No-2
 - (d) By the side of pneumatic panel
93. In a 3-PHASE loco, to bring an isolated subsystem into service, what is the procedure?
- (a) Switch OFF and switch ON
 - (b) Reset concerned MCB
 - (c) Close concerned COC
 - (d) Operate concerned rotating switch
94. In a 3-PHASE loco, what does status "00" mean?
- (a) Major fault in loco
 - (b) No subsystem isolated
 - (c) Minor fault in loco
 - (d) No fault and no subsystem isolated

95. In a 3-PHASE loco, Auxiliary converter No. 3 feeds which motors?
- (a) TMB 1 & 2
 - (b) MCP-1 & 2
 - (c) OCB 1 & 2
 - (d) TFP PUMP 1 & 2
96. In a 3-PHASE loco, in case of emergency, the ALP can stop the train by operating what?
- (a) Emergency stop switch
 - (b) Emergency brake valve
 - (c) BPVG
 - (d) Emergency stop switch or Emergency brake valve
97. In a 3-PHASE loco, when the harmonic filter is isolated, what is the speed restriction of the train?
- (a) 60 Kmph
 - (b) 40 Kmph
 - (c) 25 Kmph
 - (d) No such restrictions
98. In a 3-PHASE loco, before operating the throttle, ensure which node information on the screen?
- (a) FLG-504
 - (b) FLG-550
 - (c) FLG-570
 - (d) FLG-590
99. In a 3-PHASE loco, to isolate truck No. 1 (traction converter-1), keep which switch in which position?
- (a) 154, I position
 - (b) 154, II position
 - (c) 154, auto position
 - (d) 154, I & II position
100. BL key positions in three Ø loco are?
- (a) OFF
 - (b) D
 - (c) C
 - (d) OFF, D, C

Answers:

1 (b), 2 (a), 3 (c), 4 (b), 5 (b), 6 (c), 7 (c), 8 (d), 9 (a), 10 (d), 11 (a), 12 (b), 13 (d), 14 (c), 15 (d), 16 (a), 17 (c), 18 (c), 19 (d), 20 (b), 21 (c), 22 (a), 23 (c), 24 (a), 25 (c), 26 (b), 27 (a), 28 (a), 29 (d), 30 (c), 31 (c), 32 (a), 33 (a), 34 (c), 35 (d), 36 (b), 37 (c), 38 (a), 39 (c), 40 (b), 41 (c), 42 (d), 43 (b), 44 (b), 45 (b), 46 (c), 47 (d), 48 (b), 49 (d), 50 (d), 51 (c), 52 (c), 53 (d), 54 (c), 55 (d), 56 (a), 57 (b), 58 (b), 59 (b), 60 (b), 61 (c), 62 (a), 63 (b), 64 (b), 65 (c), 66 (d), 67 (c), 68 (b), 69 (b), 70 (b), 71 (b), 72 (b), 73 (c), 74 (b), 75 (d), 76 (d), 77 (c), 78 (a), 79 (c), 80 (d), 81 (c), 82 (b), 83 (a), 84 (a), 85 (a), 86 (a), 87 (a), 88 (a), 89 (a), 90 (d), 91 (a), 92 (a), 93 (a), 94 (d), 95 (d), 96 (d), 97 (b), 98 (d), 99 (a), 100 (d)

G. Establishment matters and stores:

1. How many days of LAP is a permanent/temporary Railway servant entitled to in a calendar year?
 - (a) 20 days
 - (b) 15 days
 - (c) 30 days
 - (d) 45 days
2. How many days of LHAP can be credited to an employee in a year?
 - (a) 30 days
 - (b) 10 days
 - (c) 20 days
 - (d) 12 days
3. For how many days is a female Railway employee entitled to maternity leave?
 - (a) 180 days
 - (b) 120 days
 - (c) 90 days
 - (d) 130 days
4. What period of maternity leave may be granted for miscarriage, including abortion?
 - (a) 6 weeks
 - (b) 45 days
 - (c) 7 weeks
 - (d) 43 days
5. For how many days is paternity leave admissible with less than two surviving children?
 - (a) 10 days
 - (b) 20 days
 - (c) 15 days
 - (d) 25 days
6. What is the maximum number of days of leave on average pay that can be accumulated?
 - (a) 120 days
 - (b) 180 days
 - (c) 190 days
 - (d) 300 days
7. At what rate is LAP credited to a Railway servant?
 - (a) 2½ days per month
 - (b) 3 days per month
 - (c) 2 days per month
 - (d) 1½ days per month
8. How many days of LAP per year can be credited to school staff?
 - (a) 10 days
 - (b) 5 days
 - (c) 7 days
 - (d) 8 days

9. How many days of LHAP can be accumulated by an employee in their service life?
 - (a) 300 days
 - (b) 450 days
 - (c) 600 days
 - (d) Unlimited
10. How many surviving children must a male Railway servant have to be granted paternity leave?
 - (a) Two or less
 - (b) One
 - (c) Four
 - (d) Three
11. Up to what limit maternity leave may be combined with any kind of leave?
 - (a) One year
 - (b) Two years
 - (c) Unlimited
 - (d) Six months
12. For how many days a Trade Apprentice may be granted leave on full stipend per year?
 - (a) 15 days
 - (b) 13 days
 - (c) 10 days
 - (d) 12 days
13. For what purpose does study leave count?
 - (a) Reckoning seniority
 - (b) Reckoning increment
 - (c) Earning LAP
 - (d) Earning LHAP
14. Which category is entitled to hospital leave?
 - (a) Group 'A'
 - (b) Group 'B'
 - (c) Group 'C'
 - (d) Group 'D'
15. What is the term for leave granted when no other leave is admissible?
 - (a) LAP
 - (b) LHAP
 - (c) SPL Leave
 - (d) Extraordinary leave
16. What is the maximum encashment of leave on average pay?
 - (a) 200 days
 - (b) 180 days
 - (c) 360 days
 - (d) 300 days
17. Who is the authority to sanction Special Disability Leave?
 - (a) Senior Scale Officer
 - (b) JA Grade Officer

- (c) DRM
- (d) ADRM

18. In which case can leave of any kind be combined with vacation?

- (a) Officers
- (b) Office Staff
- (c) Running Staff
- (d) Railway School Teacher

19. What is the maximum period of leave on average pay that a Railway servant may be granted at a time?

- (a) 120 days
- (b) 160 days
- (c) 180 days
- (d) 300 days

20. What is the maximum limit of Leave Not Due that may be granted to a permanent Railway servant during their entire service period?

- (a) 360 days
- (b) 380 days
- (c) Unlimited
- (d) 300 days

21. Within what period can paternity leave be granted?

- (a) Six months
- (b) Three months
- (c) Four months
- (d) 15 days

22. What is the maximum period of Special Disability Leave on average pay granted for an accident on duty?

- (a) 120 days
- (b) 125 days
- (c) 360 days
- (d) 280 days

23. To whom is paternity leave also admissible?

- (a) Casual Labour
- (b) Casual Labour with temporary status
- (c) After completion of 180 days of service
- (d) After regular absorption

24. To whom is Compensatory Casual Leave admissible?

- (a) Supervisory staff
- (b) Group 'D' staff
- (c) Group 'C' & Group 'D' staff but not supervisor
- (d) Stenographer & Confidential Assistant

25. On what basis is commuted leave admissible?

- (a) Medical Certificate
- (b) Request of an employee

- (c) Discretion of competent authority
 - (d) None
26. If a Railway employee applies for LAP in advance, what may the competent authority do?
- (a) Sanction as CL
 - (b) Sanction as LWP
 - (c) Refuse to sanction it
 - (d) Convert it as commuted leave
27. For how long can a Railway servant be granted leave of any kind for a continuous period?
- (a) 3 years
 - (b) 4 years
 - (c) 5 years
 - (d) 6 years
28. What is the maximum period of hospital leave for a non-gazetted Railway servant when combined with other leave?
- (a) 24 months
 - (b) 26 months
 - (c) 28 months
 - (d) 18 months
29. What is the maximum period of study leave that can be granted to an employee during their entire service period?
- (a) 36 months
 - (b) 28 months
 - (c) 24 months
 - (d) 30 months
30. Which leave may be granted to a Railway servant who volunteers to donate blood in government/Railway hospitals for Railway employees?
- (a) Special Casual Leave
 - (b) Casual Leave
 - (c) LAP
 - (d) LHAP
31. Who is the authority to grant study leave abroad?
- (a) Railway Board
 - (b) GM
 - (c) DRM
 - (d) CPO
32. Which of the following bears the title of Discipline and Appeals Rule in Railways?
- (a) The Discipline and Appeal Rules, 1968
 - (b) The Discipline and Appeal Rules, 1966
 - (c) The Railway Servants (Discipline and Appeal) Rules, 1968
 - (d) None of these
33. From which date did the Railway Servants (D&A) Rules, 1968 come into force?
- (a) On the first day of January, 1968

- (b) On the 22nd day of August, 1968
 - (c) On the first day of October, 1968
 - (d) None of these
34. Which standard form is used for issuing a major penalty charge sheet in disciplinary proceedings?
- (a) SF-11
 - (b) SF-5
 - (c) SF-5
 - (d) None of these
35. Which rule of DAR 1968 specifies the penalties?
- (a) Rule-9
 - (b) Rule-11
 - (c) Rule-6
 - (d) None of these
36. Who should be treated as the appointing authority when the appointing authority is not available?
- (a) Controlling Officer
 - (b) DRM
 - (c) GM
 - (d) CPO
37. What type of order should the Disciplinary Authority invariably pass when imposing a penalty?
- (a) Orders for penalty
 - (b) Speaking order
 - (c) Reason
 - (d) None
38. Who is the competent authority to make rules on RS (D&A) Rules?
- (a) President of India
 - (b) Ministry of Railways
 - (c) Member (Staff)
 - (d) Secretary Railway Board
39. When can casual laborers be governed under the Railway disciplinary rules?
- (a) After 4 months from engagement date
 - (b) After 6 months from engagement date
 - (c) After attaining temporary status
 - (d) After regular absorption
40. How many DAR cases can a recognized Trade Union official act as defense counsel for?
- (a) 2 cases
 - (b) 3 cases
 - (c) 5 cases
 - (d) Any number of cases
41. Which rule in RS (D&A) Rules, 1968 is relevant for common proceedings?
- (a) Rule 9
 - (b) Rule 11
 - (c) Rule 13
 - (d) Rule 20

42. If the disciplinary authority of a charged official is involved in the same case, who should deal with the case?
- (a) Disciplinary Authority
 - (b) Revising Authority
 - (c) The next higher authority
 - (d) None
43. Which standard form is required for issuing the order of deemed suspension?
- (a) SF-1
 - (b) SF-3
 - (c) SF-2
 - (d) SF-4
44. How many annexures are attached with a major penalty charge memorandum?
- (a) 2
 - (b) 3
 - (c) 5
 - (d) 4
45. How many cases can an acting Railway servant act as defense counsel for?
- (a) 2 cases
 - (b) 3 cases
 - (c) 4 cases
 - (d) 5 cases
46. How many cases can a retired Railway employee act as a defense assistant for at a time?
- (a) 5
 - (b) 7
 - (c) 3
 - (d) 8
47. Which deduction cannot be made from subsistence allowance?
- (a) House Rent
 - (b) P.F. subscription
 - (c) Income Tax
 - (d) None
48. Which deduction is prohibited from subsistence allowance?
- (a) House Rent
 - (b) Income Tax
 - (c) Court attachment
 - (d) Station debits
49. If a Railway employee is placed under suspension but only a minor penalty is imposed, how is the suspension period treated?
- (a) Dies non
 - (b) Non duty
 - (c) Duty
 - (d) None

50. What is a Railway servant under suspension entitled to?
- (a) Leave their headquarters
 - (b) Have passes for attending PNM/JCM
 - (c) Act as defense counsel
 - (d) None
51. Is an employee under suspension eligible for sick leave when reporting sick?
- (a) Grant of sick leave
 - (b) Grant of extraordinary leave
 - (c) Grant of half pay leave
 - (d) Not grant of sick leave
52. What does Rule 25.A of the RS (D&A) Rules deal with?
- (a) Review
 - (b) Appeal
 - (c) Explanation
 - (d) Witness
53. If the charge is unauthorized absence, what can be one of the witnesses?
- (a) Attendance Register
 - (b) Medical Certificate
 - (c) Co-employee
 - (d) None of the above
54. For how many days can CCL be granted at a time?
- (a) 2 days
 - (b) 3 days
 - (c) 4 days
 - (d) 5 days
55. What does Standard Form No. 5 relate to?
- (a) Issue of major penalty
 - (b) Issue of suspension
 - (c) Issue of minor penalty
 - (d) Nomination of Inquiry Officer
56. Which standard form is issued for suspension?
- (a) SF-11
 - (b) SF-1
 - (c) SF-5
 - (d) SF-8
57. For what period is 50% subsistence allowance given after suspension?
- (a) 4 months
 - (b) 8 months
 - (c) 3 months
 - (d) 10 months
58. For what purpose is a charge sheet under Standard Form-11 (SF-11) given to a Railway employee?
- (a) Major Penalty
 - (b) Minor Penalty

- (c) Suspension
- (d) Removal

59. Which of the following is not a minor penalty?

- (a) Censure
- (b) Withholding Pass/PTO for specific period
- (c) Withholding Promotion for specific period
- (d) Removal

60. According to D&AR, 1968, what is the total number of minor penalties?

- (a) 6
- (b) 5
- (c) 10
- (d) 3

61. On what basis is GST calculated?

- (a) Basic cost of the material
- (b) Basic cost of the material & packing charges
- (c) Basic cost of the raw material
- (d) Basic cost of the material + forwarding charges + freight charges

62. Who must approve non-stock indents above Rs 45 lakhs?

- (a) JAG scale officer
- (b) ADRM
- (c) PHOD/CHOD of department
- (d) None of the above

63. Which exercise is monitored by the Railway Board on a regular basis?

- (a) PL verification
- (b) PL allocation
- (c) PL unification
- (d) PL duplication

64. What is the plan head for stores suspense?

- (a) PH-16
- (b) PH-30
- (c) PH-71
- (d) None of the above

65. What is the term for money allotted for the purchase of stock items?

- (a) Purchase money
- (b) Purchase balance
- (c) Purchase suspense
- (d) Purchase grant

66. What do the first two digits in any price list number represent?

- (a) Part Number
- (b) Specification Number
- (c) Drawing Number
- (d) Main Group Number

67. What is buffer stock also known as?
- (a) Critical stock
 - (b) Safety Stock
 - (c) Inactive stock
 - (d) Emergency stock
68. In ABC analysis, which items are given more attention from an inventory control point of view?
- (a) A Category
 - (b) B Category
 - (c) C Category
 - (d) Equal attention to all
69. What are surplus items?
- (a) Item not moved for 12 months
 - (b) Item not moved for 24 months
 - (c) Item having more than 12 month stock
 - (d) None of these
70. According to which stores code para number are materials not required returned to the nominated stores depot?
- (a) S-1539
 - (b) DS-8
 - (c) NS-11
 - (d) SS-11
71. For what type of item is AAC used?
- (a) Stock
 - (b) Non-stock
 - (c) Imported Stock
 - (d) Emergency Stock
72. How many digits denote a PL Number?
- (a) 08
 - (b) 10
 - (c) 12
 - (d) 06
73. On which form are stock items drawn?
- (a) S-1302
 - (b) S-1313
 - (c) DS 8
 - (d) None of the above
74. On which form are stock items drawn?
- (a) S-1302
 - (b) S-1313
 - (c) DS 8
 - (d) None of the above
75. When is an S1302A indent generated?
- (a) Rs. 15,000/-

- (b) Rs. 9,000/-
- (c) Rs. 10,000/-
- (d) Rs. 8,000/-

76. Who is competent to sign the PAC (Proprietary Article Certificate) for an item valuing Rs. 20 lakhs?
- (a) JAG officer
 - (b) SG officer
 - (c) SAG officer
 - (d) None of the above
77. As per the "Make in India" policy, what is the local content requirement for a Class-II local supplier?
- (a) More than or equal to 20%, but less than 50%
 - (b) More than or equal to 20%, but less than 40%
 - (c) More than or equal to 30%, but less than 50%
 - (d) More than or equal to 30%, but less than 40%
78. What is the frequency of stock verification for 'C' category items, as per Stores Code?
- (a) Once in a year
 - (b) Once in six months
 - (c) Once in two years
 - (d) Once in three years
79. Who develops and maintains the Indian Railways E-Procurement System (IREPS)?
- (a) RDSO
 - (b) RITES
 - (c) CRIS
 - (d) None of the above
80. Which of the following is not an objective of the Stores Department?
- (a) To procure materials at the lowest price
 - (b) To maintain continuity of supplies and continuous flow of materials to users
 - (c) To ensure proper receipt and accountal of stores
 - (d) None of the above
81. What is the definition of "full night" according to HOER rules?
- (a) Period between 10 pm and 6 am
 - (b) Period between 9 pm and 5 am
 - (c) Period between 11 pm and 5 am
 - (d) None of the above
82. Into how many categories are employees classified under the Hours of Employment Rule?
- (a) Four
 - (b) Three
 - (c) Two
 - (d) Six
83. What is the statutory limit of hours of employment for an Intensive Category employee in a week?
- (a) 60 Hrs
 - (b) 45 Hrs
 - (c) 75 Hrs
 - (d) 54 Hrs

84. What is the statutory limit of hours of employment for a Continuous Category employee in a week?
- (a) 60 Hrs
 - (b) 45 Hrs
 - (c) 75 Hrs
 - (d) 54 Hrs
85. What is the statutory limit of hours of employment for an Essentially Intermittent (EI) Category employee?
- (a) 60 Hrs in a week
 - (b) 45 Hrs in a week
 - (c) 75 Hrs in a week
 - (d) 54 Hrs in a week
86. What are the standard hours of duty for Continuous Category employees in a week?
- (a) 48 Hrs
 - (b) 45 Hrs
 - (c) 75 Hrs
 - (d) 42 Hrs
87. What are the weekly hours of duty, including preparatory and complementary work, for Continuous Category employees?
- (a) 60 Hrs
 - (b) 45 Hrs
 - (c) 72 Hrs
 - (d) 54 Hrs
88. For Continuous Category employees, how many hours of duty is considered "long on"?
- (a) 6 Hrs
 - (b) 12/14 Hrs
 - (c) 10 Hrs
 - (d) 8 Hrs
89. Who is empowered to classify the employment of a Railway servant?
- (a) DRM
 - (b) Head of the Railways (GM)
 - (c) UPSC
 - (d) Railway Board
90. What is the weekly rest period for Essentially Intermittent workers, including a full night in bed?
- (a) 22 consecutive hrs
 - (b) Not less than 30 consecutive hrs
 - (c) 24 consecutive hrs including full night in bed
 - (d) Equal to 30 consecutive hrs
91. What is the weekly rest period for Intensive Category employees?
- (a) 22 consecutive hrs
 - (b) Not less than 30 consecutive hrs
 - (c) 24 consecutive hrs
 - (d) Equal to 30 consecutive hrs

92. In which category are Railway employees employed in confidential-related work classified?
- (a) Essentially Intermittent
 - (b) Intensive Category
 - (c) Continuous
 - (d) Excluded
93. What is the maximum number of breaks in a split shift?
- (a) Two
 - (b) Three
 - (c) Four
 - (d) Single
94. After how many hours of rest can an Essentially Intermittent Category employee be called for duty again in a day?
- (a) 6 Hrs
 - (b) 12/14 Hrs
 - (c) 10 Hrs
 - (d) 8 Hrs
95. After how many hours of rest can an Intensive Category employee be called for duty again in a day?
- (a) 6 Hrs
 - (b) 12/14 Hrs
 - (c) 10 Hrs
 - (d) 8 Hrs
96. Within how many days can Compensatory Off be sanctioned?
- (a) 30 days
 - (b) 60 days
 - (c) 45 days
 - (d) No limit
97. For how many hours is a Rough Assessment Job Analysis conducted?
- (a) 6 Hrs
 - (b) 24 Hrs
 - (c) 10 Hrs
 - (d) 8 Hrs
98. To whom can an appeal against the classification of employment be made?
- (a) General Manager
 - (b) DRM
 - (c) Regional Labour Commissioner
 - (d) Branch Officer
99. What is the document that shows an employee's daily hours of duty, weekly rest, and breaks between spells of duty, besides other necessary particulars?
- (a) Duty Chart
 - (b) Roster
 - (c) Attendance Register
 - (d) Overtime Allowance Register

100. Through which authority is the appointment of the Regional Labour Commissioner made?
- (a) Railway Board
 - (b) Human Resource Ministry
 - (c) Labour Ministry
 - (d) Collector
101. Which category of employment involves an employee getting no rest or very little rest during duty hours?
- (a) Intensive
 - (b) Continuous
 - (c) Essentially Intermittent
 - (d) Excluded
102. What is the allowance given to a Railway servant for performing duty beyond prescribed hours of employment?
- (a) Travelling Allowance
 - (b) Dearness Allowance
 - (c) Overtime Allowance
 - (d) None among these
103. What is Pass as per Railway Servants Pass Rules 1986?
- (a) Pass is a Privilege.
 - (b) To travel in Railway
 - (c) An authority given by Railway to a Railway employee or to a Person authorizing him to travel in a train gratuitously.
 - (d) None of these.
104. Family means.
- (a) Wife, Husband, Son/Step sons under the age of 21 years and wholly dependent. Bonafide student of any recognized University. Unmarried daughter of any age whether earning or not, dependent widow daughter. Railway Doctor's certified invalid son daughter of any age.
 - (b) Wife, Husband, son/Step son/Son-in-law/mother-in-law/daughter of any age.
 - (c) Husband, Wife/Widow mother/son/Step son of any age/Daughter of any age.
 - (d) Husband/Wife/Sons/Daughters of any age/Mother-in-law, if father is not alive.
105. How many sets of P.T.O. are issued to the Railway employees?
- (a) 6 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
 - (b) 4 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
 - (c) 3 sets both for Gazetted and Non-Gazetted every year from the date of appointment.
 - (d) 6 sets for Gazetted and 4 sets for Non-Gazetted.
106. How many sets of School Pass issued to Railway employee?
- (a) 6 sets or 3 half sets per year.
 - (b) 4 sets or 6 half sets per year.
 - (c) 3 sets or 6 half sets per year.
 - (d) 5 sets per year.
107. Of late validity for a Privilege Pass/PTO is?
- (a) 3 months
 - (b) 4 months

- (c) 2 months
- (d) 5 months

108. Attendants of Pass Holder is:-

- (a) Part time servant.
- (b) Servant
- (c) Full time paid servant.
- (d) Any person.

109. Irregularity for use of Passes may be condoned by

- (a) CPO
- (b) GM
- (c) CME
- (d) COM

110. When dependents are included in a Pass/PTO number persons entitled to be include in Pass/ PTO shall be.

- (a) All Family members + 2 dependents.
- (b) 5 member's only
- (c) 6 members only.
- (d) Any number of Family members + 3 dependents

111. How many sets of PTOs is/ are a license Holder coolie is entitled in a calendar year?

- (a) One (Ind/Sleeper)
- (b) Two(Ind/Sleeper)
- (c) Three(Ind/Sleeper)
- (d) Nil

Answers:

1 (c), 2 (c), 3 (a), 4 (b), 5 (c), 6 (d), 7 (a), 8 (a), 9 (d), 10 (a), 11 (a), 12 (d), 13 (c), 14 (d), 15 (d), 16 (d), 17 (d), 18 (d), 19 (c), 20 (a), 21 (a), 22 (d), 23 (b), 24 (c), 25 (a), 26 (c), 27 (c), 28 (c), 29 (a), 30 (a), 31 (a), 32 (c), 33 (c), 34 (c), 35 (c), 36 (c), 37 (b), 38 (a), 39 (c), 40 (b), 41 (c), 42 (c), 43 (c), 44 (d), 45 (a), 46 (b), 47 (b), 48 (c), 49 (c), 50 (c), 51 (d), 52 (a), 53 (a), 54 (d), 55 (a), 56 (b), 57 (c), 58 (b), 59 (d), 60 (a), 61 (d), 62 (c), 63 (c), 64 (c), 65 (d), 66 (d), 67 (b), 68 (a), 69 (b), 70 (b), 71 (a), 72 (a), 73 (b), 74 (a), 75 (c), 76 (c), 77 (b), 78 (c), 79 (c), 80 (a), 81 (a), 82 (a), 83 (b), 84 (d), 85 (c), 86 (a), 87 (d), 88 (c), 89 (b), 90 (c), 91 (b), 92 (b), 93 (a), 94 (d), 95 (b), 96 (a), 97 (b), 98 (c), 99 (b), 100 (c), 101 (a), 102 (c), 103 (a), 104 (a), 105 (d), 106 (c), 107 (b), 108 (c), 109 (b), 110 (b), 111 (b).

H. Fire Safety, ISO & Computers

1. Which of the following types of materials is responsible for fuelling a Class A fire?
 - a) Cooking oils
 - b) Flammable liquids
 - c) Electrical Equipment
 - d) Wood, plastic, paper, and other kinds of solid materials
2. Which type of fire extinguisher is used to fight an electrical fire if a carbon dioxide extinguisher is unavailable?
 - a) Water
 - b) Wet Chemical
 - c) Foam
 - d) Dry Powder
3. Titanium and aluminium materials can be classified under which of the following types?
 - a) Class-A
 - b) Class- C
 - c) Class- D
 - d) Class-B
4. Which of the following colours allows to identify a foam fire extinguisher?
 - a) Blue
 - b) Red
 - c) Yellow
 - d) Green
5. When fighting with electrical fire, which of the following should not be used?
 - a) Water Fire Extinguisher
 - b) Foam Fire Extinguisher
 - c) Dry Powder Fire Extinguisher
 - d) Neither A nor B should be used
6. Which of the following is correct when it comes to the type of fire extinguishers you should avoid while fighting a fire in a confined space?
 - a) Carbon Dioxide and Dry Powder Fire extinguishers should not be used
 - b) Carbon Dioxide and Water Fire Extinguishers should not be used
 - c) Water and Dry Powder Fire extinguishers should not be used
 - d) Only a Dry powder fire extinguisher should not be used.
7. The basic fire theory says that a fire needs four main elements in order to start: fuel, oxygen, heat and _____
 - a) Hydrogen sulphide
 - b) Carbon dioxide

- c) A chain reaction
 - d) Benzene
8. Portable fire extinguishers should only be used for the _____ stage of a fire.
- a) Beginning
 - b) End
 - c) Late
 - d) Middle
9. The acronym for putting out a fire using a fire extinguisher is PASS. What does PASS stand for
- a) Pin, Aim, Squeeze, spread
 - b) Pull, Accuracy, Squeeze, Spread
 - c) Pin, Aim, Squeeze, sweep
 - d) Pull, Aim, Squeeze, Sweep
10. Injury caused due to moist heat, hot oil and steam or boiling water
- a) Burn
 - b) Scald
 - c) Contusion
 - d) Abrasion
11. Transfer of heat in solids, mainly in metallic objects is called as
- a) Radiation
 - b) Convection
 - c) Conduction
 - d) Induction
12. Which type of extinguisher is used for metallic fires
- a) Special Dry powder
 - b) Dry chemical powder
 - c) Foam type
 - d) Carbon dioxide type
13. In fire extinction methods, cutting the supply of oxygen from the fire area is called
- a) Cooling
 - b) Starvation
 - c) Smothering
 - d) Isolation
14. fire extinguisher works on which principle
- a) Archimedes
 - b) Siphon
 - c) Osmosis

d) Relativity

15. Liquefied Petroleum Gas comes under which type of Fuel

- a) Solid
- b) Liquid
- c) Gas
- d) semi liquid

Answers:

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

ISO

1. ISO 9001 helps ensure that customers get _____
 - (a) consistent products & services
 - (b) good-quality products and services
 - (c) many business benefits
 - (d) All of the above.
2. ISO 9002 requires _____
 - (a) Consistent quality meetings with customers
 - (b) Regular connection with suppliers
 - (c) Getting production and inspection or installation methods certified
 - (d) Motivation, inspiration and coordination of teams for quality
3. ISO 14000 family is related with companies and organizations of any type that require practical tools to manage their _____.
 - (a) production quality
 - (b) social responsibilities
 - (c) environmental responsibilities
 - (d) operations and supply chain system
4. ISO 14000 standards are for the _____.
 - (a) sustained success
 - (b) production management
 - (c) operations quality management
 - (d) environmental management
5. ISO 14000 family focus on _____.
 - (a) labelling and life cycle analysis
 - (b) environmental challenges
 - (c) climate change
 - (d) All of the above
6. Which of the following is true about ISO 14000 certification?
 - (a) ISO 14000 mainly deals with environmental management
 - (b) ISO 14000 is all about quality of the micro environment of the organization
 - (c) ISO 14000 is far superior than other ISO systems and standards
 - (d) ISO 14000 is completely outdated and non essential standard
7. ISO 9000 determines _____.
 - (a) The procedure used for quality control
 - (b) Infrequent causes of variation
 - (c) Performance of suppliers regarding quality
 - (d) If the company practices its written procedures

8. The ISO 9000 certification helps _____
- (a) to compete with other non certified competitors
 - (b) to improve employee's morale
 - (c) to document quality system effectively
 - (d) all of the above

Answers:

1 (d), 2 (c), 3 (c), 4 (d), 5 (d), 6 (a), 7 (d), 8 (d),

COMPUTER

1. Which component is known as the "brain" of the computer?
 - (a) RAM
 - (b) Hard Drive
 - (c) CPU
 - (d) Graphics card
2. What is the primary function of an input device like a keyboard or mouse.
 - (a) To process data
 - (b) To display results
 - (c) To convert external data into a computer-acceptable form
 - (d) To provide power to the system
3. Which of the following is an example of a system software?
 - (a) Photoshop
 - (b) Windows
 - (c) A web browser
 - (d) A word processor
4. Which out of the following is file extension of an Excel file.
 - (a) xcl
 - (b)xlsx
 - (c) Xelx.
 - (d) Excel
5. Process of transferring files from internet to user computer is called.
 - (a) Downloading,
 - (b) Up loading
 - (c) FTP
 - (d) JPEG

6. Which function key is used to rename the file.
 - (a) F1
 - (b) F2
 - (c) F6
 - (d) F5
7. What is the full form of PNG format of Image.
 - (a) Printable network graphic
 - (b) Portable new graphic
 - (c) Printable new graphic
 - (d) Portable network graphic.
8. Extensions file of Ms Word?
 - (a) word
 - (b) docx
 - (c) doxc
 - (d) msw
9. Short cut key to open New blank Document in MS-WORD
 - (a) CTRL+B
 - (b) CTRL+N
 - (c) CTRL+D
 - (d) CTRL +M.
10. Expand PDF
 - (a) Portable Document format
 - (b) Printable document format
 - (c) Port document format
 - (d) Preview document format.
11. Which of the following file types represent compressed version of one or more files.
 - (a) EXE
 - (b) PDF
 - (c) DOC
 - (d) ZIP

Answers:

1 (c), 2 (c), 3 (b), 4 (b), 5 (a), 6 (b), 7 (d), 8 (c), 9 (b), 10 (a), 11 (d)

I. Mathematics

1. What is the place value of 5 in 3254710?
(a) 5
(b) 10000
(c) 50000
(d) 54710
2. The face value of 8 in the number 458926 is
(a) 8
(b) 1000
(c) 8000
(d) 8926
3. All natural numbers and 0 are called thenumbers.
(a) Rational
(b) integer
(c) whole
(d) prime
4. Every rational number is also
(a) An integer
(b) A real number
(c) A natural number
(d) A whole number
5. The number π is
(a) A fraction
(b) A recurring decimal
(c) A rational number
(d) An irrational number
6. If the largest three-digit number is subtracted from the smallest five-digit number, then the remainder is
(a) 1
(b) 9000
(c) 9001
(d) 90001
7. The number $\sqrt{3}$ is
(a) a finite decimal
(b) an infinite recurring decimal
(c) equal to 1.732
(d) an infinite non-recurring decimal
8. What is the sum of the squares of the digits from 1 to 9?
(a) 105
(b) 260
(c) 285
(d) 385

9. If x, y, z be the digits of a number beginning from the left, the number is

- (a) xyz
- (b) $x + 10y + 100z$
- (c) $10x + y + 100z$
- (d) $100x + 10y + z$

10. If $13 = 13w / (1-w)$, then $(2w)^2$?

- (a) $\frac{1}{4}$
- (b) $\frac{1}{2}$
- (c) 1
- (d) 2

11. The number of prime numbers between 0 and 50 is

- (a) 14
- (b) 15
- (c) 16
- (d) 17

12. Which one of the following is a prime number?

- (a) 161
- (b) 221
- (c) 373
- (d) 437

13. The sum of all the prime numbers from 1 to 20 is

- (a) 75
- (b) 76
- (c) 77
- (d) 78

14. $6 \times 3 (3 - 1)$ is equal to

- (a) 19
- (b) 20
- (c) 36
- (d) 53.

15. $5566 - 7788 + 9988 = ? + 4444$

- (a) 3223
- (b) 3232
- (c) 3322
- (d) 3333

16. From the sum of 17 and -12 , subtract 48

- (a) -43
- (b) -48
- (c) -17
- (d) -20

17. $3578 + 5729 - ? \times 581 = 5821$

- (a) 3
- (b) 4
- (c) 6
- (d) None of these

18. If you subtract -1 from $+1$, what will be the result?

- (a) -2
- (b) 0
- (c) 1
- (d) 2

19 $(800 \div 64) \times (1296 \div 36) = ?$

- (a) 420
- (b) 460
- (c) 500
- (d) 540

20. $\frac{768 \times 768 \times 768 + 232 \times 232 \times 232}{768 \times 768 - 768 \times 232 + 232 \times 232} = ?$

- (a) 1000
- (b) 536
- (c) 500
- (d) 268.

21 If $A = 11$ and $B = 9$, then the value of $\frac{A^2 + B^2 + AB}{A^3 - B^3}$ is

- (a) $\frac{1}{2}$
- (b) $\frac{1}{20}$
- (c) 2
- (d) 20

22. Find the factors of 330.

- (a) $2 \times 4 \times 5 \times 11$
- (b) $2 \times 3 \times 7 \times 13$
- (c) $2 \times 3 \times 5 \times 13$
- (d) $2 \times 3 \times 5 \times 11$

23. Reduce $\frac{128352}{238368}$ to its lowest terms.

- (a) $\frac{3}{4}$
- (b) $\frac{5}{13}$
- (c) $\frac{7}{13}$
- (d) $\frac{9}{13}$

24. The L.C.M. of $23 \times 32 \times 5 \times 11$, $24 \times 34 \times 52 \times 7$ and $25 \times 33 \times 53 \times 72 \times 11$ is

- (a) $23 \times 32 \times 5$
- (b) $25 \times 34 \times 53$
- (c) $23 \times 32 \times 5 \times 7 \times 11$
- (d) $25 \times 34 \times 53 \times 72 \times 11$

25. The simplest reduction to the lowest terms of

$\frac{116, 690, 151}{427, 863, 887}$ is

- (a) $3/11$
- (b) $7/11$
- (c) $11/3$
- (d) None of these

26. The highest common factor of 0 and 6 is

- (a) 0
- (b) 3
- (c) 6
- (d) Undefined

27. The H.C.F. of $22 \times 33 \times 55$, $23 \times 32 \times 52 \times 7$ and $24 \times 34 \times 5 \times 72 \times 11$ is

- (a) $22 \times 32 \times 5$
- (b) $22 \times 32 \times 5 \times 7 \times 11$
- (c) $24 \times 34 \times 55$
- (d) $24 \times 34 \times 55 \times 7 \times 11$

28. The H.C.F. of $\frac{2}{3}$, $\frac{8}{9}$, $\frac{64}{81}$ and $\frac{10}{27}$ is

- (a) $2/3$
- (b) $2/81$
- (c) $160/3$
- (d) $160/81$

29. The L.C.M. of $\frac{2}{3}$, $\frac{3}{5}$, $\frac{4}{7}$, $\frac{9}{13}$ is

- (a) 36
- (b) $1/36$
- (c) $1/1365$
- (d) $12/455$

30 The H.C.F. of 204, 1190 and 1445 is

- (a) 17
- (b) 18
- (c) 19
- (d) 21

31. The G.C.D. of 1.08, 0.36 and 0.9 is
(a) 0.03
(b) 0.9
(c) 0.18
(d) 0.108
32. The L.C.M. of 3, 2.7 and 0.09 is
(a) 2.7
(b) 0.27
(c) 0.027
(d) 27
33. Three numbers are in the ratio of 3: 4: 5 and their L.C.M. is 2400. Their H.C.F. is
(a) 40
(b) 80
(c) 120
(d) 200
34. The ratio of two numbers is 13: 15 and their L.C.M. is 39780. The numbers are
(a) 884, 1020
(b) 884, 1040
(c) 670, 1340
(d) 2652, 3060
35. The H.C.F. and L.C.M. of two numbers are 12 and 336 respectively. If one of the numbers is 84, the other
is
(a) 36
(b) 48
(c) 72
(d) 96
36. The value of $\frac{42}{10000}$ in decimal fraction is
(a) 0.0042
(b) 0.00042
(c) 0.0420
(d) 42000
37. How many times is 0.1 greater than 0.01?
(a) 1 time
(b) 10 times
(c) 100 times
(d) 1000 times
38. What decimal of an hour is a second?
(a) .0025
(b) .0256

- (c) .00027
- (d) .000126

39. Express $\frac{1999}{2111}$ in decimal.

- (a) 0.893
- (b) 0.904
- (c) 0.946
- (d) 0.986

40 The least among the following fractions is

- (a) $\frac{15}{16}$
- (b) $\frac{19}{20}$
- (c) $\frac{24}{25}$
- (d) $\frac{34}{35}$.

41. $0.3 + 3 + 3.33 + 3.3 + 3.03 + 333 = ?$

- (a) 345.99
- (b) 355.96
- (c) 375.66
- (d) 375.93

42. $24.424 + 5.656 + 1.131 + 0.089 = ?$

- (a) 31.003
- (b) 31.3
- (c) 31.0003
- (d) 31.03

43. $3 \times 0.3 \times 0.03 \times 0.003 \times 30 = ?$

- (a) 0.0000243
- (b) 0.000243
- (c) 0.00243
- (d) 0.0243

44. The fraction equivalent to $\frac{2}{5}\%$ is

- (a) $\frac{1}{40}$
- (b) $\frac{1}{125}$
- (c) $\frac{1}{250}$
- (d) $\frac{1}{500}$

45. If a, b, c are integers; $a^2 + b^2 = 45$ and $b^2 + c^2 = 40$, then the values of a, b and c respectively are

- (a) 2, 6, 3
- (b) 3, 2, 6
- (c) 5, 4, 3
- (d) None of these

46. If $x + y = 15$ and $xy = 56$, then what is the value of $x^2 + y^2$?
- (a) 110
 - (b) 113
 - (c) 121
 - (d) Cannot be determined
47. If $(a - b) = 4$ and $ab = 2$, then $(a^2 + b^2) = ?$
- (a) 18
 - (b) 20
 - (c) 25
 - (d) None of these.
48. How many boxes are required for filling 15 kg of sweet if each box is filled with 250 grams of sweet?
- (a) 30
 - (b) 70
 - (c) 60
 - (d) 120.
49. If an amount of Rs. 4, 36,563 is distributed equally amongst 69 persons, how much amount would each Person get?
- (a) Rs 5876
 - (b) Rs. 5943
 - (c) Rs.6148
 - (d) Rs. 6327
50. a is greater than b by 2 and b is greater than c by 10. If $a + b + c = 130$, then $(b + c) - a = ?$
- (a) 34
 - (b) 38
 - (c) 42
 - (d) 44
51. $\frac{\sqrt{196}}{7} \times \frac{\sqrt{441}}{7} \times \frac{120}{\sqrt{225}}$
- (a) 48
 - (b) 54
 - (c) 58
 - (d) 84.
52. The monthly incomes of five persons are `Rs 1132, `Rs 1140, Rs 1144, Rs 1136 and Rs 1148 respectively. What is their arithmetic mean?
- (a) Rs 1100
 - (b) Rs 1120
 - (c) Rs 1132
 - (d) Rs 1140
53. Among five people with monthly income (in Rs) 15000, 26000, 16000, 19000 and 50000, how many will have income less than the mean income of five people?
- (a) 1

- (b) 2
- (c) 3
- (d) 4

54. The arithmetic mean of 15 numbers is 41.4. Then the sum of these numbers is

- (a) 414
- (b) 420
- (c) 620
- (d) 621.

55. If $25a + 25b = 115$, what is the average of a and b ?

- (a) 2.3
- (b) 3.4
- (c) 4.5
- (d) 4.6

56. If a number is added to two-fifths of itself, the value so obtained is 455. What is the number?

- (a) 325
- (b) 350
- (c) 400
- (d) 420

57. A number whose fifth part increased by 4 is equal to its fourth part diminished by 10, is d

- (a) 240
- (b) 260
- (c) 270
- (d) 280

58. If a number, when divided by 4, is reduced by 21, the number is

- (a) 18
- (b) 20
- (c) 28
- (d) 38

59. The difference of two numbers is 20% of the larger number. If the smaller number is 12, the larger one is

- (a) 15
- (b) 16
- (c) 18
- (d) 20

60. A positive number when decreased by 4 is equal to 21 times the reciprocal of the number. The number is

- (a) 3
- (b) 5
- (c) 7
- (d) 9

61. The age of a mother today is thrice that of her daughter. After 12 years, the age of the mother will be twice that of her daughter. The present age of the daughter is:
- (a) 12 years
 - (b) 14 years
 - (c) 16 years
 - (d) 18 years
62. Sonal is 40 years old and Nitya is 60 years old. How many years ago was the ratio of their ages 3 : 5?
- (a) 5 years
 - (b) 10 years
 - (c) 20 years
 - (d) 37 years
63. The present age of son is half of the present age of his mother. Ten years ago, his mother's age was thrice the age of her son. What is the present age of the son?
- (a) 20 years
 - (b) 25 years
 - (c) 30 years
 - (d) 40 years
64. 10% of 5 and 5% of 10 add up to
- (a) 0.10
 - (b) 0.25
 - (c) 1.0
 - (d) 2.5
65. $15\% \text{ of } 578 + 22.5\% \text{ of } 644 = ?$
- (a) 231.4
 - (b) 231.6
 - (c) 231.8
 - (d) 233.6
66. I paid Rs. 27.20 as sales tax on a watch worth Rs. 340. Find the rate of sales tax.
- (a) 8%
 - (b) 9%
 - (c) 10%
 - (d) 12%
67. 30% apples out of 450 are rotten. How many apples are in good condition?
- (a) 125
 - (b) 180
 - (c) 240
 - (d) 315
68. Anand has drawn an angle of measure $45^\circ 27'$ when he was asked to draw an angle of 45° . The Percentage error in his drawing is
- (a) 0.5
 - (b) 1.0

- (c) 1.5
- (d) 2.0

69. The sum of two numbers is 2490. If 6.5% of one number is equal to 8.5% of the other, the greater number is

- (a) 1079
- (b) 1250
- (c) 1380
- (d) 1411

70. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is

- (a) 4.37%
- (b) 5%
- (c) 6%
- (d) 8.75%

71. $\frac{\sqrt{3+x} + \sqrt{3-x}}{\sqrt{3+x} - \sqrt{3-x}} = 2$ Then x is equal to

- (a) 5/7
- (b) 7/5
- (c) 5/12
- (d) 12/5

72. If $2^{n+4} - 2^{n+2} = 3$ then n is equal to

- (a) 0
- (b) 2
- (c) - 1
- (d) - 2

73. If $3^{x-y} = 27$ and $3^{x+y} = 243$ then x is equal to

- (a) 0
- (b) 2
- (c) 4
- (d) 6

74. An individual pays 30% income tax. On this tax he has to pay a surcharge of 10%. Thus the net tax rate, he has to pay, is

- (a) 27%
- (b) 33%
- (c) 40%
- (d) 45%

75. Nupur invests ₹ 89856, which is 26% of her annual income, in mutual funds. What is her monthly income?

- (a) Rs.23980.50
- (b) Rs. 28800
- (c) Rs. 28990
- (d) Rs.33606.25

76. By selling an article for Rs100, a man gains Rs. 15. Then, his gain % is
(a) 15%
(b) $12\frac{2}{3}\%$
(c) $17\frac{11}{17}\%$
(d) $17\frac{1}{4}\%$
77. A trader buys some goods for Rs 150. If the overhead expenses be 12% of cost price, then at what price should it be sold to earn 10%?
(a) Rs 184.80
(b) Rs 185.80
(c) Rs 187.80
(d) Rs 188.80
78. If an article is sold at 200 percent profit, then the ratio of its cost price to its selling price will be
(a) 1 : 2
(b) 2 : 1
(c) 1 : 3
(d) 3 : 1
79. The value of x where $x : 2\frac{1}{3} :: 21:50$ is
(a) $1\frac{1}{49}$
(b) $1\frac{1}{50}$
(c) $\frac{49}{50}$
(d) $\frac{27}{50}$
80. If $\sqrt{2} : (1 + \sqrt{3}) :: \sqrt{6} : x$, then x is equal to
(a) $\sqrt{3} + 3$
(b) $1 - \sqrt{3}$
(c) $1 + \sqrt{3}$
(d) $\sqrt{3} - 3$
81. If 20% of A = 30% of B = $\frac{1}{6}$ of C, then A : B : C is
(a) 2 : 3 : 16
(b) 3 : 2 : 16
(c) 10 : 15 : 18
(d) 15 : 10 : 18
82. A, B and C enter into a partnership. A initially invests Rs. 25 lakhs and adds another Rs 10 lakhs after one year. B initially invests Rs.35 lakhs and withdraws Rs.10 lakhs after 2 years and C invests Rs.30 lakhs. In what ratio should the profits be divided at the end of 3 years?
(a) 10 : 10 : 9
(b) 20 : 20 : 19
(c) 20 : 19 : 18
(d) None of these

83. A began a business with Rs.85000. He was joined afterwards by B with Rs. 42500. For how much period does B join, if the profits at the end of the year are divided in the ratio of 3: 1?
- (a) 4 months
 - (b) 5 months
 - (c) 6 months
 - (d) 8 months
84. A, B and C entered in to a partnership by investing Rs. 15, 400, Rs. 18,200 and Rs. 12,600 respectively. B left after 6 months. If after 8 months, there was a profit of Rs.28,790, then what is the share of C in the profit?
- (a) Rs.8712
 - (b) Rs.9432
 - (c) Rs.8352
 - (d) Rs.8568
85. Working 8 hours a day, 12 men can do a work in 30 days. Working 4 hours a day, 18 men can do the work in
- (a) 30 days
 - (b) 40 days
 - (c) 45 days
 - (d) 50 days
86. If 5 men or 9 women can do a piece of work in 19 days, then in how many days will 3 men and 6 women do the same work?
- (a) 12
 - (b) 15
 - (c) 18
 - (d) 21
87. If 8 men can reap 80 hectares in 24 days, then how many hectares can 36 men reap in 30 days?
- (a) 350
 - (b) 400
 - (c) 425
 - (d) 450
88. A tap can fill a tank in 48 minutes whereas another tap can empty it in 2 hours. If both the taps are opened at 11 : 40 A.M, then the tank will be filled at
- (a) 12 : 40 P.M
 - (b) 1 : 00 P.M
 - (c) 1 : 20 P.M
 - (d) 1 : 30 P.M
89. A pipe can fill a tank in 3 hours. There are two outlet pipes from the tank which can empty it in 7 and 10 hours respectively. If all the three pipes are opened simultaneously, then the tank will be filled in
- (a) 8 hours
 - (b) 9 hours
 - (c) 10 hours
 - (d) 11 hours

90. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in
- (a) 81 min
 - (b) 108 min
 - (c) 144 min
 - (d) 192 min
91. A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day ?
- (a) $\frac{1}{6}$
 - (b) $\frac{1}{9}$
 - (c) $\frac{2}{5}$
 - (d) $\frac{2}{7}$
92. Amit and Sumit can plough a field in 4 days. Sumit alone can plough the field in 6 days. In how many days will Amit alone plough the field?
- (a) 10 days
 - (b) 12 days
 - (c) 14 days
 - (d) 15 days
93. A can complete a work in 6 days while B can complete the same work in 12 days. If they work together and complete it, the portion of the work done by A is
- (a) $\frac{1}{3}$
 - (b) $\frac{1}{4}$
 - (c) $\frac{1}{2}$
 - (d) $\frac{2}{3}$
94. A speed of 30.6 km/hr is the same as
- (a) 5.1 m/sec
 - (b) 8.5 m/sec
 - (c) 110.16 m/sec
 - (d) None of these
95. A man covered a distance of 180 km in 4 hours on a bike. How much distance will be cover on a bicycle in 8 hours if he rides the bicycle at one-sixth the speed of the bike?
- (a) 54 km
 - (b) 60 km
 - (c) 72 km
 - (d) 84 km
96. A is travelling at 72 km per hour on a highway while B is travelling at a speed of 25 metres per second. What is the difference in their speeds in metres per second?
- (a) $1\frac{1}{2}$ m/sec
 - (b) 2 m/sec
 - (c) 3 m/sec
 - (d) 5 m/sec

97. A motorist travelled between two towns, which are 65 km apart, in 2 hours and 10 minutes. Find the speed in metres per minute.
- (a) 200
 - (b) 500
 - (c) 600
 - (d) 700
98. The speed of a boat in still water is 15 km / hr and the rate of current is 3 km / hr. The distance travelled downstream in 12 minutes is:
- (a) 1.2 km
 - (b) 1.8 km
 - (c) 2.4 km
 - (d) 3.6 km
99. A boat goes 8 km in one hour along the stream and 2 km in one hour against the stream. The speed in km/hr of the stream is
- (a) 2
 - (b) 3
 - (c) 4
 - (d) 5
100. If a man goes 18 km downstream in 4 hours and returns against the stream in 12 hours, then the speed of the stream in km/hr is
- (a) 1
 - (b) 1.5
 - (c) 1.75
 - (d) 3
101. A 100 m long train is going at a speed of 60 km/hr. It will cross a 140 m long railway bridge in c
- (a) 3.6 sec
 - (b) 7.2 sec
 - (c) 14.4 sec
 - (d) 21.6 sec
102. A 50-metre long train passes over a bridge at the speed of 30 km per hour. If it takes 36 seconds to cross the bridge, what is the length of the bridge?
- (a) 200 metres
 - (b) 250 metres
 - (c) 300 metres
 - (d) 350 metres
103. The time taken by a train 180 m long, travelling at 42 kmph, in passing a person walking in the same direction at 6 kmph, will be.
- (a) 18 sec
 - (b) 21 sec
 - (c) 24 sec
 - (d) 25 sec

104. In what ratio must a grocer mix two varieties of pulses costing Rs.15 and Rs. 20 per kg respectively?
so as to get a mixture worth Rs.16.50 per kg ?
(a) 3 : 7
(b) 5 : 7
(c) 7 : 3
(d) 7 : 5
105. In what ratio must tea at Rs 62 per kg be mixed with tea at Rs.72 per kg so that the mixture must be worth Rs. 64.50 per kg ?
(a) 3 : 1
(b) 3 : 2
(c) 4 : 3
(d) 5 : 3
106. A farmer borrowed `Rs.3600 at 15% simple interest per annum. At the end of 4 years, he cleared this account by paying Rs.4000 and a cow. The cost of the cow is
(a) Rs.1000
(b) Rs. 1200
(c) Rs.1550
(d) Rs.1760
107. Ram borrows Rs.520 from Gaurav at a simple interest of 13% per annum. What amount of money should Ram pay to Gaurav after 6 months to be absolved of the debt?
(a) Rs.353.80
(b) Rs. 453.80
(c) Rs. 552.80
(d) Rs.553.80
108. If the rate of interest be 4% per annum for first year, 5% per annum for second year and 6% per annum for third year, then the compound interest of Rs.10000 for 3 years will be
(a) Rs.1575.20
(b) Rs. 1600
(c) Rs. 1625.80
(d) Rs.2000
109. What will be the compound interest accrued on an amount of Rs. 10000 @ 20 p.c.p.a. in 2 years if the interest is compounded half-yearly?
(a) Rs.4400
(b) Rs. 4600
(c) Rs. 4641
(d) Rs. 4680
110. The length of a room is 5.5 m and width is 3.75 m. Find the cost of paving the floor by slabs at the rate of Rs. 800 per sq. metre.
(a) Rs.15,000
(b) Rs. 15,550
(c) Rs. 15,600
(d) Rs. 16,500

111. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is
- (a) 1520 m^2
 - (b) 2420 m^2
 - (c) 2480 m^2
 - (d) 2520 m^2

Answers:

1 (c), 2 (a), 3 (c), 4 (b), 5 (d), 6 (c), 7 (d), 8 (c), 9 (d), 10 (c), 11 (b), 12 (c), 13 (c), 14 (c), 15 (c), 16 (a), 17 (c), 18 (d), 19 (c), 20 (a), 21 (a), 22 (d), 23 (c), 24 (a), 25 (a), 26 (d), 27 (a), 28 (b), 29 (a), 30 (c), 31 (b), 32 (d), 33 (a), 34 (d), 35 (b), 36 (a), 37 (b), 38 (c), 39 (c), 40 (a), 41 (e), 42 (b), 43 (c), 44 (c), 45 (d), 46 (b), 47 (b), 48 (c), 49 (d), 50 (a), 51 (a), 52 (d), 53 (c), 54 (d), 55 (a), 56 (a), 57 (d), 58 (c), 59 (a), 60 (c), 61 (a), 62 (b), 63 (a), 64 (c), 65 (d), 66 a(), 67 (d), 68 (a), 69 (d), 70 (b), 71 (d), 72 (d), 73 (c), 74 (b), 75 (b), 76 (c), 77 (a), 78 (c), 79 (c), 80 (a), 81 (d), 82 (d), 83 (d), 84 (a), 85 (b), 86 (b), 87 (d), 88 (b), 89 (d), 90 (c), 91 (a), 92 (b), 93 (d), 94 (b), 95 (b), 96 (d), 97 (b), 98 (d), 99 (b), 100 (b), 101 (c), 102 (b), 103 (a), 104 (c), 105 (a), 06 (d), 107 (d), 108 (a), 109 (c), 110 (d), 111 (d)

J. General English & GK

1. Can you please give me _____ yellow paint?" he asked.
(a) some
(b) many
(c) a few
(d) much
2. _____ people prefer to take the LRT compared to the bus
(a) many
(b) much
(c) any
(d) a little
3. Mrs.Rani bought _____ loaves of bread from the bakery.
(a) a little
(b) a few
(c) any
(d) much
4. Please give me _____ useful gift.
(a) an
(b) a
(c) no article
(d) the
5. We will _____ by that teacher.
(a) be taught
(b) be taught
(c) have taught
(d) been taught
6. This mansion _____ in 1750
(a) is built
(b) will be built
(c) was built
(d) builded
7. He drove from Andhra Pradesh _____ Karnataka without stopping to rest.
(a) is
(b) to
(c) into
(d) towards
8. We met a lot of people _____ holidays
(a) on
(b) with
(c) during
(d) at

4569887/2025/O/o Dy.CME/Dsl/SCR

9. He went _____ sea alone
(a) in
(b) To
(c) Into
(d) On
10. When will you hand _____ your assignment?
(a) in
(b) back
(c) down
(d) into
11. There is a bridge _____ the river
(a) over
(b) on
(c) down
(d) across
12. We can make no progress if we continue working _____ these conditions.
(a) into
(b) with
(c) under
(d) for
13. Don't depend _____ others, you must stand on your own feet.
(a) at
(b) on
(c) to
(d) for
14. The strike has been called _____
(a) of
(b) at
(c) off
(d) by
15. He is a descendent _____ Mughal royalty
(a) of
(b) from
(c) in
(d) for
16. The examination will begin _____ Monday
(a) from
(b) in
(c) at
(d) on
17. I complimented him _____ his success
(a) about
(b) for
(c) on
(d) at

18. Choose the correct sentence:
- (a) He go to school every day.
 - (b) He goes to school every day
 - (c) He going to school every day
 - (d) He gone to school every day.
19. Identify the correct plural form of "child":
- (a) Childs
 - (b) Childes
 - (c) Children
 - (d) Childrens
20. Which of following word is a preposition?
- (a) Quickly
 - (b) Before
 - (c) Running
 - (d) Beautiful
21. "She has been reading for two hours." The tense is:
- (a) Present Continuous
 - (b) Present Perfect
 - (c) Present Perfect Continuous
 - (d) Past Perfect Continuous
22. Pick the correct article: "He is ____ honest man."
- (a) a
 - (b) an
 - (c) the
 - (d) no article
23. Which is an interrogative sentence?
- (a) She is reading a book.
 - (b) Where are you going?
 - (c) Close the door.
 - (d) I am tired.
24. Identify the adjective in the sentence: "The tall boy ran fast."
- (a) ran
 - (b) fast
 - (c) boy
 - (d) tall
25. What is the comparative form of "good"?
- (a) gooder
 - (b) more good
 - (c) better
 - (d) best
26. Which is a conjunction?
- (a) Before
 - (b) Because

4569887/2025/O/o Dy.CME/Dsl/SCR

- (c) Running
- (d) Quickly

27. Which one is an abstract noun?

- (a) Book
- (b) Freedom
- (c) Table
- (d) Tree

28. Fill in the blank: "If I ____ you, I would apologize."

- (a) am
- (b) was
- (c) were
- (d) be

29. "He does not ____ football."

- (a) play
- (b) plays
- (c) played
- (d) playing

30. Identify the correct sentence:

- (a) I am agree.
- (b) I agrees
- (c) I agree.
- (d) I agreeing.

31. Which one is a proper noun?

- (a) city
- (b) boy
- (c) India
- (d) animal

32. Choose the correct spelling:

- (a) Accomodation
- (b) Accommodation
- (c) Acommodation
- (d) Acomodation

33. Choose the word closest in meaning to "Ascertain":

- (a) Ignore
- (b) Verify
- (c) Deceive
- (d) Promote

34. Choose the word opposite in meaning to "**Vigilant**":

- (a) Alert
- (b) Unaware
- (c) Watchful
- (d) Attentive

35. Find out the part of the sentence which has an error: "Neither the teacher nor the students was ready for the surprise test."
- (a) Neither the teacher nor the students
 - (b) Was
 - (c) ready for
 - (d) the surprise test
36. She is looking forward ____ meeting you.
- (a) for
 - (b) to
 - (c) forward
 - (d) of
37. Choose the passive form of: "People speak English all over the world."
- (a) English is spoken by people all over the world.
 - (b) English was spoken all over the world.
 - (c) English has been spoken by people all over the world.
 - (d) English is speaking by people all over the world.
38. Choose the correct antonym of the given word "**Callous**".
- (a) Compact
 - (b) Hardened
 - (c) Sensitive
 - (d) Soft
39. Choose the correct antonym of the given word "**Facilitate**".
- (a) Further
 - (b) Impede
 - (c) Expiate
 - (d) Assist
40. Choose the correct antonym of the given word "**Distill**".
- (a) Dilute
 - (b) Rare
 - (c) Infuse
 - (d) extract
41. Choose the correct antonym of the given word "**Peremptory**".
- (a) deferential
 - (b) Weak
 - (c) Resistant
 - (d) Humble
42. Choose the correct antonym of the given word "**Salutary**".
- (a) Farewell
 - (b) Moderate
 - (c) Noxious
 - (d) Objectionable
43. Choose the correct synonym of the given word "**Qualm**".
- (a) Attribute
 - (b) Altercation

4569887/2025/O/o Dy.CME/Dsl/SCR

- (c) Scruple
- (d) Crisis

44. Choose the correct synonym of the given word: "**Domain**"

- (a) Fielding
- (b) Marketing
- (c) Main
- (d) Area

45. Choose the correct synonym of the given word: "**Skip**"

- (a) Notice
- (b) Insert
- (c) Introduce
- (d) Overlook

46. Choose the correct synonym of the given word: "Abortive"

- (a) Fruitful
- (b) Familiar
- (c) financing
- (d) unsuccessful

47. Choose the correct synonym of the given word: "**Benign**"

- (a) Gentle
- (b) Peaceful
- (c) Favorable
- (d) Wavering

48. Choose the correct synonym of the given word: "**Bountiful**"

- (a) Spiritual
- (b) Shameful
- (c) Generous
- (d) Pretty

49. Choose the correct synonym of the given word: "**Candid**"

- (a) Anxious
- (b) Frank
- (c) Experienced
- (d) Secretive

50. Choose the correct synonym of the given word: "**Rejoice**"

- (a) Lighten
- (b) Delight
- (c) Rebuild
- (d) Rejoin

51. Choose the correct synonym of the given word: "Haughty"

- (a) Casual
- (b) Careless
- (c) Straightforward
- (d) Proud

52. My cousin has invested a lot of money ____ farming.
(a) into
(b) in
(c) on
(d) for
53. It is dangerous to enter ____ the enemy's camp.
(a) through
(b) on
(c) in
(d) into
54. A good judge never gropes _____ the conclusion.
(a) for
(b) to
(c) at
(d) on
55. Religious leaders should not delve _____ politics.
(a) at
(b) in
(c) into
(d) with
56. India is committed _____ a policy of peaceful existence.
(a) of
(b) to
(c) with
(d) for
57. Raman's speech pointed _____ some of our defects.
(a) to
(b) at
(c) on
(d) towards
58. My relations _____ Suganya are good.
(a) against
(b) with
(c) on
(d) to
59. Siva has no control _____ his temper.
(a) at
(b) in
(c) over
(d) after
60. I am used _____ such hardships.
(a) at
(b) to
(c) for
(d) from

61. I was astonished ____ the sad news.
(a) to
(b) at
(c) with
(d) in
62. Choose the correctly spelt word?
(a) Necessery
(b) Necesarry
(c) Necessaryy
(d) Necessary
63. Choose the correctly spelt word?
(a) Coruppt
(b) Corrupt
(c) Curruppt
(d) Curropt
64. Choose the correctly spelt word?
(a) Satellite
(b) Satelite
(c) Sattellite
(d) Sattellite
65. Choose the correctly spelt word?
(a) Millonaire
(b) Millionare
(c) Millonare
(d) Millionaire
66. Choose the correctly spelt word?
(a) Drought
(b) Drougt
(c) Draut
(d) Drout
67. Choose the correctly spelt word?
(a) Legandery
(b) Legendary
(c) Legendery
(d) Legendry
68. Choose the correctly spelt word?
(a) Achievement
(b) Achevement
(c) Achievment
(d) Acheivment
69. Choose the correctly spelt word?
(a) Tommorow
(b) Tomorrow

4569887/2025/O/o Dy.CME/Dsl/SCR

- (c) Tomarow
- (d) Tomarrow

70. Choose the correctly spelt word?

- (a) Mathematics
- (b) Mathemetics
- (c) Mathametics
- (d) Mathamatics

71. Choose the correctly spelt word?

- (a) Kaleidoscope
- (b) Kaliedoscope
- (c) Kalidoscope
- (d) Kalaidoscope

72. Choose the mis-spelt word?

- (a) Creativity
- (b) Negligence
- (c) Affinity
- (d) Wisdom

73. Choose the mis-spelt word?

- (a) Tution
- (b) Audience
- (c) Mendacious
- (d) Demonstration

74. Choose the mis-spelt word?

- (a) Mattress
- (b) Mathamatics
- (c) Matrimony
- (d) Material

75. Choose the mis-spelt word?

- (a) Loveable
- (b) Soluble
- (c) Usable
- (d) Manageable

76. Choose the mis-spelt word?

- (a) Tremor
- (b) Terrace
- (c) Transmitter
- (d) Terorism

77. Choose the mis-spelt word?

- (a) Advice
- (b) Revise
- (c) Device
- (d) Demice

4569887/2025/O/o Dy.CME/Dsl/SCR

78. Choose the mis-spelt word?
(a) Contingency
(b) Contemporery
(c) Contemplate
(d) Controversial
79. Choose the mis-spelt word?
(a) Lovely
(b) Lonesome
(c) Logical
(d) Ludicruous
80. Choose the mis-spelt word?
(a) Ambassador
(b) Attribute
(c) Aeronaut
(d) Atrocious
81. Choose the mis-spelt word?
(a) Garulous
(b) Giraffe
(c) Greedy
(d) Grammar
82. The instructor told the young climbers to hold on to the rope with ____ hands.
(a) both
(b) every
(c) all
(d) each
83. The train doesn't stop at ____ station along the way, but it stops at ____ of the main ones.
(a) all / either
(b) every / most
(c) each / much
(d) both / some
84. Despite the scarcity of arable land, ____ the population in the Middle East is engaged in farming.
(a) a lot more
(b) almost none
(c) so much
(d) a good deal of
85. ____ of the competitors was badly affected by the extreme heat and passed out.
(a) Some
(b) No
(c) A few
(d) One
86. I'm glad we bought the new lawnmower. Now I can mow the lawn using ____ the effort.
(a) fewer

4569887/2025/O/o Dy.CME/Dsl/SCR

- (b) none
- (c) much
- (d) half

87. The richness of Asia's cultures is reflected in _____ arts and literature.

- (a) theirs
- (b) it
- (c) its
- (d) them

88. Celebrating the end of one year and the start of a new one is an age-old religious, social, and cultural observance in almost _____ part of the world.

- (a) all
- (b) every
- (c) either
- (d) neither

89. Of the two shops in the village, _____ sold sun cream, so he had to keep a long-sleeved shirt on all day.

- (a) no
- (b) both
- (c) none
- (d) neither

90. The company is so stable that you can buy shares in it with almost _____ risk of losing any money.

- (a) any
- (b) none
- (c) no
- (d) few

91. They gave the idea _____ consideration before accepting it.

- (a) several
- (b) only a few
- (c) a great deal of
- (d) much of

92. I went into town specially to buy a jacket for the Christmas party, but I didn't see _____ that I liked.

- (a) a few
- (b) any
- (c) all
- (d) much

93. _____ the painters have achieved so far is to make the office look more of a mess than it did this morning.

- (a) the whole
- (b) some
- (c) all
- (d) none

4569887/2025/O/o Dy.CME/Dsl/SCR

94. It takes _____ of dedication to become a top-class athlete.
 (a) enough
 (b) nearly every
 (c) a great deal
 (d) many more
95. _____ cashier underwent the company's training scheme before starting to work her.
 (a) a great many
 (b) several
 (c) both
 (d) every
96. Choose the passive form of "Mona was writing a letter to her father".
 (a) a letter was written to her father by mona.
 (b) a letter has been written to her father by mona.
 (c) a letter was being written by mona to her father.
 (d) a letter was written by mona to her father.
97. _____ of seagulls followed the tractor as the farmer ploughed the field.
 (a) many more
 (b) almost all
 (c) only some
 (d) a large number
98. After the oil spill from the huge tanker, the _____ beach was covered in thick black oil.
 (a) whole
 (b) all
 (c) many
 (d) every
99. If Richard had _____ patience, he would have _____ arguments with the manager.
 (a) little / much
 (b) enough / little
 (c) less / plenty
 (d) more / fewer
100. Tea and coffee contain caffeine, which is harmful, so the doctor told me to avoid drinking _____.
 (a) both of them
 (b) much of it
 (c) all of them
 (d) some of it

Answers:

1 (a), 2 (a), 3 (b), 4 (a), 5 (b), 6 (c), 7 (b), 8 (c), 9 (c), 10 (a), 11 (a), 12 (a), 13 (a), 14 (c), 15 (a), 16 (d), 17 (c), 18 (b), 19 (c), 20 (b), 21 (c), 22 (b), 23 (b), 24 (d), 25 (c), 26 (b), 27 (b), 28 (c), 29 (a), 30 (c), 31 (c), 32 (b), 33 (b), 34 (b), 35 (b), 36 (b), 37 (a), 38 (d), 39 (d), 40 (a), 41 (a), 42 (c), 43 (c), 44 (d), 45 (d), 46 (d), 47 (a), 48 (c), 49 (b), 50 (b), 51 (d), 52 (b), 53 (d), 54 (a), 55 (c), 56 (b), 57 (d), 58 (b), 59 (c), 60 (b), 61 (b), 62 (d), 63 (b), 64 (a), 65 (d), 66 (a), 67 (b), 68 (a), 69 (b), 70 (a), 71 (a), 72 (d), 73 (a), 74 (b), 75 (a), 76 (d), 77 (d), 78 (b), 79 (d), 80 (a), 81 (a), 82 (a), 83 (b), 84 (d), 85 (d), 86 (d), 87 (c), 88 (b), 89 (d), 90 (c), 91 (c), 92 (b), 93 (c), 94 (c), 95 (d), 96 (c), 97 (d), 98 (a), 99 (d), 100 (a)

General Knowledge

1. Thomas Cup is associated with which sport?
 - (a) Tennis
 - (b) Football
 - (c) Badminton
 - (d) Cricket

2. The Dance from Uttarpradesh is..
 - (a) Kathak
 - (b) Bhangra
 - (c) Bihu
 - (d) Kathakali

3. An example of Chola architecture can be seen at
 - (a) Kanchipuram
 - (b) Mahabalipuram
 - (c) Tanjore
 - (d) Ellora

4. The decimal system was introduced by
 - (a) Aryabhatta
 - (b) Brahmagupta
 - (c) Bhaskara
 - (d) None of these

5. Which planet in the solar system is known as the “Red Planet”?
 - (a) Venus
 - (b) Earth
 - (c) Mars
 - (d) Jupiter

6. What gas is used to extinguish fires?
 - (a) Oxygen
 - (b) Nitrogen
 - (c) Carbon dioxide
 - (d) Hydrogen

7. Which is the largest island?
 - (a) New Guinea
 - (b) Andaman Nicobar
 - (c) Greenland
 - (d) Hawaii

8. Which one is the hottest continent?
 - (a) Africa
 - (b) South Asia
 - (c) North America
 - (d) Australia

9. What is considered the lung of the Earth?
 - (a) Amazon rainforest

4569887/2025/O/o Dy.CME/Dsl/SCR

- (b) The Mississippi River
- (c) The Sahara
- (d) Everest

10. Which country is the biggest grower of coffee?

- (a) Spain
- (b) India
- (c) Ethiopia
- (d) Brazil

11. How many bones are in the body of an adult human?

- (a) 330
- (b) 206
- (c) 250
- (d) 210

12. Which city is called the "City of Winds"?

- (a) Chicago
- (b) Seattle
- (c) Washington
- (d) Veliky Novgorod

13. What element is the main constituent of diamonds?

- (a) Carbon
- (b) Oxygen
- (c) Silver
- (d) Gold

14. Which sea is considered the most salty on Earth?

- (a) Red Sea
- (b) Mediterranean Sea
- (c) Dead Sea
- (d) Black Sea

15. Panchatantra was written by

- (a) Kaladisa
- (b) Vishnu Sharma
- (c) Tulsidas
- (d) Banabhatta

16. In which country did the Chernobyl nuclear disaster take place?

- (a) Russia
- (b) Ukraine
- (c) Belarus
- (d) Lithuania

17. What chemical element is used in the manufacture of glass?

- (a) Silver
- (b) Sodium
- (c) Silicone
- (d) Oxygen

4569887/2025/O/o Dy.CME/Dsl/SCR

18. What chemical element is used to create rainbows in televisions and computer monitors?

- (a) Helium
- (b) Oxygen
- (c) Hydrogen
- (d) Neon

19. Filaria is caused by

- (a) Bacteria
- (b) Mosquito
- (c) Protozoa
- (d) Virus

20. In which season do we need more fat?

- (a) Autumn
- (b) Spring
- (c) Winter
- (d) Summer

21. How many players are there on each side of the Basketball game?

- (a) 4
- (b) 5
- (c) 6
- (d) 7

22. Which country is considered the birthplace of the Olympic Games?

- (a) Greece
- (b) Rome
- (c) Egypt
- (d) China

23. What social network used "stories" first?

- (a) VKontakte
- (b) Facebook
- (c) Instagram
- (d) Twitter

24. Where is the Chinnar Wild life Sanctuary situated?

- (a) Tamilnadu
- (b) Kerala
- (c) Karnataka
- (d) Assam

25. Which state is the leading producer of Bauxite ore in India

- (a) Andhrapradesh
- (b) chattisgarh
- (c) Orissa
- (d) Jarkhand

26. Who is known as the "Father of Indian Railways"?

- (a) Lord Curzon
- (b) Lord Macaulay
- (c) Lord Dalhousie

4569887/2025/O/o Dy.CME/DsI/SCR

(d) Lord George Frederick Prendergast

27. What is the Indian luxury train that travels through Rajasthan known as?

- (a) Deccan Odyssey
- (b) Maharaja's Express
- (c) Palace on Wheels
- (d) Golden Chariot

28. LED stands for what?

- (a) Light emitting Device
- (b) Low emitting Diode
- (c) Light electronic Diode
- (d) Light Emitting Diode

29. What is the new official name given to the Bastar Olympics?

- (a) Tribal Youth Games
- (b) Khelo India Tribal Games
- (c) Bharat Khel Mahotsav
- (d) None of the Above

30. Who was honoured with the 43rd Lokmanya Tilak National Award 2025?

- (a) Nitin Gadkari
- (b) Rajnath Singh
- (c) Piyush Goyal
- (d) Amit Shah

31. Which Legislative Assembly became the first in India to be powered entirely by solar energy?

- (a) Maharashtra Legislative Assembly
- (b) Gujarat Legislative Assembly
- (c) Uttar Pradesh Legislative Assembly
- (d) Delhi Legislative Assembly

32. Which of the following is a Kharif Crop?

- (a) Gram
- (b) Pea
- (c) Wheat
- (d) Cotton

33. Diamond City of India?

- (a) Mumbai
- (b) Jaipur
- (c) Surat
- (d) Panna

34. Under whose tenure as Railway Minister, were the Garib Rath trains introduced by Indian Railways?

- (a) Mamta Banerjee
- (b) Lalu Prasad Yadav
- (c) Nitish Kumar
- (d) Ram Vilas Paswan

4569887/2025/O/o Dy.CME/DsI/SCR

35. In which city is the Railway Staff College of Indian Railways located?
- (a) Pune
 - (b) Delhi
 - (c) Vadodara
 - (d) Allahabad
36. Who of the following was the first Railway Minister of independent India?
- (a) John Mathai
 - (b) Lal Bahadur Shastri
 - (c) Jawaharlal Nehru
 - (d) Shanmugham Shetty
37. Which country does the Maitree Express connected India with?
- (a) Myanmar
 - (b) Pakistan
 - (c) Bangladesh
 - (d) Nepal
38. Which of the following zonal headquarters-city combination is incorrect?
- (a) South East Central - Bilaspur
 - (b) North Western – Jodhpur
 - (c) East Central – Hajipur
 - (d) West Central – Jabalpur
39. On which route was the first Vande Bharat Express introduced in 2019?
- (a) Mumbai and Ahmedabad
 - (b) New Delhi and Varanasi
 - (c) New Delhi and Bhopal
 - (d) Chennai and Bengaluru
40. Which of the following provision needs a special majority in Parliament?
- (a) Creation of New States
 - (b) Abolition of Legislative Councils in State
 - (c) Rules and Procedures in Parliament
 - (d) Change in Fundamental Rights
41. The illegal migrants of which country are not eligible for citizenship under Citizenship Amendment Act 2019?
- (a) Myanmar
 - (b) Afghanistan
 - (c) Bangladesh
 - (d) Pakistan
42. What type of GST will be applicable for the supply of goods between the states?
- (a) CGST
 - (b) IGST
 - (c) SGST
 - (d) None of the above
43. Kalamkari painting is related to-
- (a) Rajasthan
 - (b) Punjab

4569887/2025/O/o Dy.CME/DsI/SCR

- (c) Andhra Pradesh
- (d) Tamilnadu

44. Which of the following is the largest contributor to land degradation in India?

- (a) Forest Fires
- (b) Water Erosion
- (c) Wind Erosion
- (d) Soil Salinization

45. Which of the following is the only ape found in India?

- (a) Gorilla
- (b) Chimpanzee
- (c) Hoolock Gibbon
- (d) Mandrill

46. What is the maximum age of a Girl eligible for opening of an account in Sukanya and Samriddhi Yojana?

- (a) 7 Years
- (b) 8 Years
- (c) 9 Years
- (d) 10 Years

47. Atmanirbhar Clean Plant Programme (CPP) is primarily related to which sector?

- (a) Animal husbandry
- (b) Aquaculture
- (c) Horticulture
- (d) Forestry

48. Night blindness drying of the conjunctiva, dry and scaly skin and loss of hair are some of the symptoms of:

- (a) Vitamin K deficiency
- (b) Vitamin A deficiency
- (c) Iron deficiency
- (d) Folic acid deficiency

49. Which bird is the symbol of wisdom?

- (a) Owl
- (b) Hawk
- (c) Falcon
- (d) Swan

50. What is Air Quality Index?

- (a) It tells about the sound pollution.
- (b) It measures air pollution mainly sulphur content in the air.
- (c) It measures ozone levels in your area.
- (d) It checks the colour of the air.

Answers:

1 (c), 2 (a), 3 (c), 4 (c), 5 (c), 6 (c), 7 (c), 8 (a), 9 (a), 10 (d), 11 (b), 12 (a), 13 (a), 14 (c), 15 (b), 16 (b), 17 (c), 18 (d), 19 (b), 20 (c), 21 (b), 22 (a), 23 (c), 24 (b), 25 (c), 26 (c), 27 (b), 28 (d), 29 (b), 30 (a), 31 (d), 32 (d), 33 (c), 34 (b), 35 (c), 36 (a), 37 (c), 38 (b), 39 (b), 40 (d), 41 (a), 42 (b), 43 (c), 44 (b), 45 (c), 46 (d), 47 (c), 48 (b), 49 (a), 50 (c)

K. राजभाषा/ Official Language

1. भारत की आधिकारिक भाषा क्या है?
 - (a) तेलुगु
 - (b) हिंदी
 - (c) मराठी
 - (d) हिंदी (देवनागरी लिपि)
1. What is the official language of the India?
 - (a) Telugu
 - (b) Hindi
 - (c) Marathi
 - (d) Hindi in Devnagari Script
2. भारतीय संविधान के किस अनुच्छेद में देवनागरी लिपि में हिंदी को राजभाषा घोषित किया गया है?
 - (a) अनुच्छेद
 - (b) अनुच्छेद 210
 - (c) अनुच्छेद 343
 - (d) अनुच्छेद 351
2. In which article of the constitution of India Hindi in Devnagari script has been declared as Official Language?
 - (a) Article
 - (b) Article 210
 - (c) Article 343
 - (d) Article 351
3. भारतीय संविधान के प्रावधानों के अनुसार, राजभाषा हिंदी किस लिपि में लिखी जाएगी?
 - (a) ब्राह्मी लिपि
 - (b) संस्कृत लिपि
 - (c) रोमन लिपि
 - (d) देवनागरी लिपि
3. As per the provisions of the Constitution of India Official Language Hindi shall be written in which script?
 - (a) Brahmi Script
 - (b) Sanskrit Script
 - (c) Roman Script
 - (d) Devnagari Script
4. भारत संघ के आधिकारिक उद्देश्यों में अंकों के किन रूपों का प्रयोग किया जाना चाहिए?
 - (a) भारतीय अंकों का अंतर्राष्ट्रीय रूप
 - (b) देवनागरी अंक

- (c) रोमन अंक
(d) उपरोक्त में से कोई नहीं
4. Which forms of the numerals should be used in official purposes of the Union of India?
(a) International form of Indian Numerals
(b) Devnagari numerals
(c) Roman numerals
(d) None of the above
5. भारत में हिंदी दिवस हर साल को मनाया जाता है।
(a) 10 जनवरी
(b) 26 जनवरी
(c) 15 अगस्त
(d) 14 सितंबर
5. Hindi Day is celebrated in India on every year.
(a) 10th January
(b) 26th January
(c) 15th August
(d) 14th September
6. भारत में 14 सितंबर को हिंदी दिवस क्यों मनाया जाता है?
(a) भारत की संविधान सभा ने उसी दिन हिंदी को भारत की राजभाषा के रूप में अपनाया था।
(b) गृह मंत्रालय, राजभाषा विभाग ने ऐसा करने का आदेश दिया था।
(c) रेलवे बोर्ड ने ऐसा करने का आदेश दिया था।
(d) उपरोक्त में से कोई नहीं।
6. Why Hindi Day is celebrated in India on 14th September?
(a) Constituent Assembly of India had adopted Hindi as Official Language of India on that day.
(b) Ministry of Home Affairs, Department of Official Language had ordered to do so.
(c) Railway Board had ordered to do so
(d) None of the above
7. भारतीय संविधान के किस अनुच्छेद में राजभाषा आयोगों की स्थापना का प्रावधान है?
(a) अनुच्छेद 343
(b) अनुच्छेद 344
(c) अनुच्छेद 345
(d) अनुच्छेद 346
7. In which article of the Constitution of India envisages setting up of Official Language Commissions?
(a) Article 343
(b) Article 344
(c) Article 345
(d) Article 346

8. भारतीय संविधान का कौन सा अनुच्छेद भारतीय राज्यों को अपनी राजभाषा चुनने का अधिकार देता है?
- अनुच्छेद 343
 - अनुच्छेद 351
 - अनुच्छेद 210
 - अनुच्छेद 345
8. Which article of the Constitution of India empowers the Indian states to choose their own Official Language?
- Article 343
 - Article 351
 - Article 210
 - Article 345
9. यदि कोई राज्य राज्य में बोली जाने वाली भाषाओं में से अपनी राजभाषा नहीं चुनता है, तो उसकी राजभाषा कौन सी होगी?
- राज्य में बोली जाने वाली सभी भाषाएँ
 - हिंदी भाषा
 - अंग्रेजी भाषा
 - उपरोक्त में से कोई नहीं
9. If a state does not choose Official Language for itself from the languages spoken in the state what language will be its Official Language?
- All the languages spoken in the state
 - Hindi Language
 - English Language
 - None of the above
10. संसद के किसी भी सदन या किसी राज्य विधानमंडल के सदन या किसी भी सदन में प्रस्तुत किए जाने वाले सभी विधेयकों या उनमें प्रस्तावित संशोधनों का आधिकारिक पाठ किस भाषा में होगा?
- हिंदी में
 - अंग्रेजी में
 - भारत के संविधान की 8वीं अनुसूची में उल्लिखित किसी भी भाषा में
 - उपरोक्त में से कोई नहीं
10. The authoritative texts of all Bills to be introduced or amendments thereto to be moved in either House of Parliament or in the House or either House of the Legislature of a State shall be in which language?
- In Hindi
 - In English
 - In any of the Languages mentioned in 8th Schedule of the Constitution of India
 - None of the above
11. भारतीय संविधान के प्रचलित प्रावधानों के अनुसार, सर्वोच्च न्यायालय और प्रत्येक उच्च न्यायालय में सभी कार्यवाही भाषा में होगी।

- (a) हिंदी में
(b) अंग्रेजी में
(c) भारतीय संविधान की 8वीं अनुसूची में उल्लिखित किसी भी भाषा में
(d) उपरोक्त में से कोई नहीं
11. As per the prevailing provisions of the Constitution of India all proceedings in the Supreme Court and in every High Court shall be in..... language.
(a) In Hindi
(b) In English
(c) In any of the Languages mentioned in 8th Schedule of the Constitution of India
(d) None of the above
12. भारतीय संविधान के किस अनुच्छेद में हिंदी भाषा के प्रसार को बढ़ावा देने का कर्तव्य भारत संघ को सौंपा गया है?
(a) अनुच्छेद 120
(b) अनुच्छेद 210
(c) अनुच्छेद 343
(d) अनुच्छेद 351
12. In which article of the constitution of India the duty to promote the spread of the Hindi language assigned to the Union of India?
(a) Article 120
(b) Article 210
(c) Article 343
(d) Article 351
13. निम्नलिखित में से कौन सी भाषा भारतीय संविधान की आठवीं अनुसूची में शामिल नहीं है?
(a) छत्तीसगढ़ी
(b) मैथिली
(c) डोगरी
(d) बोडो
13. Which of the following languages not included in the VIII Schedule of the Constitution of India?
(a) Chhattisgarhi
(b) Maithili
(c) Dogri
(d) Bodo
14. भारतीय संविधान के प्रावधानों के अनुसार, हिंदी भाषा को समृद्ध बनाने और भारत की समग्र संस्कृति के सभी तत्वों की अभिव्यक्ति के माध्यम के रूप में कार्य करने के लिए, जहाँ भी आवश्यक या वांछनीय हो, शब्दावली मुख्यतः किस भाषा से ली जानी चाहिए?
(a) अंग्रेजी भाषा
(b) हिंदुस्तानी भाषा

- (c) लिंगुआ फ्रैंका
(d) संस्कृत भाषा
14. As per the provisions of the Constitution of India vocabulary should be drawn primarily from which language wherever necessary or desirable for enrichment of Hindi Language to serve as medium of expression for all the elements of the composite culture of India?
(a) English Language
(b) Hindustani Language
(c) Lingua Franca
(d) Sanskrit Language
15. भारतीय संविधान के किस अनुच्छेद में यह प्रावधान है कि यदि कोई संसद सदस्य हिंदी या अंग्रेजी में अपनी बात पर्याप्त रूप से व्यक्त नहीं कर पाता है, तो उसे राज्य सभा के सभापति या लोक सभा के अध्यक्ष या जैसा भी मामला हो, उस रूप में कार्य करने वाले किसी व्यक्ति द्वारा सदन को अपनी मातृभाषा में संबोधित करने की अनुमति दी जाएगी?
(a) अनुच्छेद 120
(b) अनुच्छेद 210
(c) अनुच्छेद 343
(d) अनुच्छेद 351
15. In which article of the Constitution of India the provision contains that if a Member of Parliament does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?
(a) Article 120
(b) Article 210
(c) Article 343
(d) Article 351
16. भारतीय संविधान के किस अनुच्छेद में संसद में प्रयुक्त की जाने वाली भाषा के संबंध में प्रावधान किया गया है?
(a) अनुच्छेद 120
(b) अनुच्छेद 210
(c) अनुच्छेद 343
(d) अनुच्छेद 351
16. In which article of the Constitution of India the provision regarding the language to be used in parliament has been contained.
(a) Article 120
(b) Article 210
(c) Article 343
(d) Article 351
17. भारतीय संविधान के किस अनुच्छेद में राज्य विधानमंडलों में प्रयुक्त की जाने वाली भाषा के संबंध में प्रावधान किया गया है?
(a) अनुच्छेद 120

- (b) अनुच्छेद 210
(c) अनुच्छेद 343
(d) अनुच्छेद 351
17. In which article of the Constitution of India the provision regarding the language to be used in state legislatures has been contained.
(a) Article 120
(b) Article 210
(c) Article 343
(d) Article 351
18. भारतीय संविधान के किस अनुच्छेद में यह प्रावधान है कि यदि कोई सदस्य हिंदी या अंग्रेजी में अपनी बात पर्याप्त रूप से व्यक्त नहीं कर पाता है, तो उसे राज्य सभा के सभापति या लोक सभा के अध्यक्ष या जैसा भी मामला हो, उस रूप में कार्य करने वाले किसी व्यक्ति द्वारा सदन को अपनी मातृभाषा में संबोधित करने की अनुमति दी जाएगी?
(a) अनुच्छेद 120
(b) अनुच्छेद 210
(c) अनुच्छेद 343
(d) अनुच्छेद 351
18. In which article of the Constitution of India a provision contains that if a Member does not adequately express himself in Hindi or in English he/she would be permitted by the Chairman of the Council of the States or speaker of the House of the People or person acting as such as the case may be, to address the house in his mother tongue?
a) Article 120
b) Article 210
c) Article 343
d) Article 351
19. भारतीय संविधान के किस अनुच्छेद के खंड-3 में संसद को संविधान के प्रारंभ होने के 15 वर्ष बाद भी अंग्रेजी भाषा के प्रयोग को जारी रखने के संबंध में नियम बनाने का अधिकार दिया गया है?
(a) अनुच्छेद 343
(b) अनुच्छेद 344
(c) अनुच्छेद 348
(d) अनुच्छेद 351
19. In clause-3 of which article of the Constitution of India empowers the parliament to make rule regarding continuation of the use of English language even after the expire of 15 years of the commencement of the constitution.
(a) Article 343
(b) Article 344
(c) Article 348
(d) Article 351

20. भारतीय संविधान के किस अनुच्छेद में संविधान के प्रारंभ होने के पाँच वर्ष बाद और उसके बाद दस वर्ष बाद राजभाषा आयोग के गठन का प्रावधान किया गया है?
- (a) अनुच्छेद 120
(b) अनुच्छेद 210
(c) अनुच्छेद 344
(d) अनुच्छेद 348
20. In which article of the Constitution of India a provision to constitute Official Language Commission at the expiration of five years from the commencement of the Constitution and thereafter at the expiration of ten years from such commencement has been envisaged.
- (a) Article 120
(b) Article 210
(c) Article 344
(d) Article 348
21. भारतीय संविधान के प्रावधानों के अनुसार 7 जून 1955 को प्रथम राजभाषा आयोग का गठन किया गया था। इस आयोग के अध्यक्ष कौन थे?
- (a) के.एम. मुंशी
(b) गोपाल स्वामी अयंगर
(c) बी.जी. खेर
(d) गोविंद वल्लभ पंत
21. The 1st Official Language Commission has been constituted on 7th June 1955 as per the provisions of the Constitution of India. Who was the Chairman of this commission?
- (a) K. M. Munshi
(b) Gopal Swami Ayengar
(c) B. G. Kher
(d) Govind Vallabh Pant
22. द्वितीय राजभाषा आयोग के अध्यक्ष कौन थे?
- (a) लाल बहादुर शास्त्री
(b) गुलजारीलाल नंदा
(c) श्रीमती इंदिरा गांधी
(d) उपरोक्त में से कोई नहीं
22. Who was the Chairman of the 2nd Official Language Commission?
- (a) Lal Bahadur Shastri
(b) Guljarilal Nanda
(c) Smt. Indira Gandhi
(d) None of the above
23. भारत संघ की राजभाषा क्या है?

- (a) हिंदी (देवनागरी लिपि)
- (b) हिंदी
- (c) संस्कृत
- (d) इनमें से कोई नहीं

23. What is the Official Language of Union of India

- (a) Hindi in Devnagari Script
- (b) Hindi
- (c) Sanskrit
- (d) None of these

24. संविधान का भाग XVII संसद में किस तिथि को पारित हुआ था?

- (a) 12.09.1949
- (b) 14.09.1949
- (c) 15.09.1949
- (d) 21.09.1949

24. On which date part XVII of the Constitution was passed in Parliament

- (a) 12.09.1949
- (b) 14.09.1949
- (c) 15.09.1949
- (d) 21.09.1949

25. राजभाषा अधिनियम 1963 कब पारित हुआ था?

- (a) 10.05.1963
- (b) 10.05.1964
- (c) 10.05.1965
- (d) 10.05.1966

25. When was official language act 1963 passed

- (a) 10.05.1963
- (b) 10.05.1964
- (c) 10.05.1965
- (d) 10.05.1966

26. राजभाषा अधिनियम 1963 में कब संशोधन किया गया था?

- a) 1963
- b) 1965
- c) 1967
- d) 1969

26. When was official language Act 1963 ammended

- (a) 1963
- (b) 1965
- (c) 1967
- (d) 1969

27. राजभाषा नियमों के अंतर्गत भारत संघ को ----- क्षेत्रों में वर्गीकृत किया गया है।

- (a) A और B क्षेत्र
(b) C और D क्षेत्र
(c) A, B और C क्षेत्र
(d) इनमें से कोई नहीं
27. Union of India is classified into ----- Regions under Official Language Rules
(a) A & B Regions
(b) C & D Regions
(c) A, B & C Regions
(d) None of these
28. प्रतिवर्ष "हिंदी दिवस" कब मनाया जाता है?
(a) 14 नवंबर
(b) 14 सितंबर
(c) 21 नवंबर
(d) 21 सितंबर
28. When is "Hindi Day" celebrated every year
(a) November 14
(b) September 14
(c) Noveember 21
(d) September 21
29. राजभाषा नियमों के अनुसार, अंडमान और निकोबार द्वीप समूह किस क्षेत्र के अंतर्गत आते हैं?
(a) क्षेत्र 'A'
(b) क्षेत्र 'B'
(c) क्षेत्र 'C'
(d) इनमें से कोई नहीं
29. According to official language rules, under which region Andaman and Nicobar islands come?
(a) Region 'A'
(b) Region 'B'
(c) Region 'C'
(d) None of these
30. क्षेत्र 'B' के अंतर्गत वर्गीकृत एकमात्र केंद्र शासित प्रदेश कौन सा है?
(a) केंद्र शासित प्रदेश चंडीगढ़
(b) केंद्र शासित प्रदेश दमन और दीव
(c) पांडिचेरी
(d) इनमें से कोई नहीं
30. Which is the only Union territory classified under region 'B'
(a) Union territory of Chandigarh

- (b) Union territory of Daman & Diu
- (c) Pondichery
- (d) None of these

31. अरुणाचल प्रदेश की राजभाषा क्या है?

- (a) मिज़ो
- (b) अंग्रेज़ी
- (c) हिंदी
- (d) इनमें से कोई नहीं

31. What is the official language of Arunachal Pradesh

- (a) Mizo
- (b) English
- (c) Hindi
- (d) None of these

32. गैर-हिंदी भाषी लोगों को दिए गए आश्वासनों को कानूनी रूप देने के लिए कौन सा अधिनियम पारित किया गया?

- (a) राजभाषा अधिनियम (संशोधित)-1967
- (b) राजभाषा अधिनियम (संशोधित)-1969
- (c) राजभाषा अधिनियम (संशोधित)-1965
- (d) इनमें से कोई नहीं

32. What is the act passed to give legal form to the assurances given to Non-Hindi speaking people?

- (a) Official Language Act (amended)-1967
- (b) Official Language Act (amended)-1969
- (c) Official Language Act (amended)-1965
- (d) None of these

33. राजभाषा अधिनियम की धारा 3(3) कब से लागू हुई?

- (a) 26.01.1961
- (b) 26.01.1963
- (c) 26.01.1965
- (d) 26.01.1967

33. From when did the section 3(3) of official languages act take effect?

- (a) 26.01.1961
- (b) 26.01.1963
- (c) 26.01.1965
- (d) 26.01.1967

34. संविधान के किस भाग में राजभाषा के बारे में जानकारी देने वाले अनुच्छेद 343-351 उपलब्ध हैं?

- (a) भाग XV
- (b) भाग XVI
- (c) भाग XVII

(d) भाग XVIII

34. In which part of the constitution are the articles 343-351 that give information about Official Language available?

- (a) Part XV
- (b) Part XVI
- (c) Part XVII
- (d) Part XVIII

35. हिंदी नाटक प्रतियोगिताओं में अधिकतम कितने कलाकार भाग ले सकते हैं?

- (a) अधिकतम 10 कलाकार
- (b) अधिकतम 15 कलाकार
- (c) अधिकतम 18 कलाकार
- (d) अधिकतम 21 कलाकार

35. Maximum how many Artists can participate in Hindi drama competitions?

- (a) Maximum 10 artists
- (b) Maximum 15 artists
- (c) Maximum 18 artists
- (d) Maximum 21 artists

36. रेलवे के राजभाषा अधिकारी के लिए एक माह में कितने निरीक्षण अनिवार्य हैं?

- (a) प्रति माह एक निरीक्षण
- (b) प्रति माह दो निरीक्षण
- (c) प्रति माह तीन निरीक्षण
- (d) प्रति माह चार निरीक्षण

36. How many inspections in a month are mandatory for Rajbhasha Adhikari of railways

- (a) One inspection per month
- (b) Two inspections per month
- (c) Three inspections per month
- (d) Four inspection per month

37. वर्तमान में संविधान की आठवीं अनुसूची में कितनी भाषाएँ सूचीबद्ध हैं?

- (a) 20
- (b) 21
- (c) 22
- (d) 23

37. At present how many languages are enlisted in the Eighth schedule of the constitution

- (a) 20
- (b) 21
- (c) 22
- (d) 23

38. संविधान के भाग V में राजभाषा नीति से संबंधित प्रावधान किस अनुच्छेद में उपलब्ध है?

- (a) अनुच्छेद 120
- (b) अनुच्छेद 343
- (c) अनुच्छेद 344
- (d) इनमें से कोई नहीं

38. In which article is the provision regarding OL policy available in part V of the constitution

- (a) Article 120
- (b) Article 343
- (c) Article 344
- (d) None of these

39. उस अनुच्छेद का नाम बताइए जिसमें संविधान की आठवीं अनुसूची का प्रावधान उपलब्ध है?

- (a) अनुच्छेद 120
- (b) अनुच्छेद 343
- (c) अनुच्छेद 344
- (d) अनुच्छेद 344 (1) और 351

39. Name the article in which the provision of the Eighth schedule of the Constitution is available

- (a) Article 120
- (b) Article 343
- (c) Article 344
- (d) Article 344 (1) & 351

40. कब राजभाषा नियम कब पारित हुए थे?

- (a) 1974
- (b) 1975
- (c) 1976
- (d) इनमें से कोई नहीं

40. (When was the Official Language Rules passed?)

- a) 1974
- (b) 1975
- (c) 1976
- (d) None of these

41. संविधान के भाग XVII में कितने अनुच्छेद हैं?

- (a) 7
- (b) 8
- (c) 9
- (d) 10

41. How many articles are there in part XVII of the Constitution?

- (a) 7
- (b) 8
- (c) 9
- (d) 10

42. अनुच्छेद 344 के अनुपालन में राजभाषा आयोग का गठन किस वर्ष किया गया था?

- (a) 1955
- (b) 1956
- (c) 1957
- (d) 1958

42. In compliance of article 344 when was the official language commission formed in the year?

- (a) 1955
- (b) 1956
- (c) 1957
- (d) 1958

43. राजभाषा आयोग के प्रथम अध्यक्ष कौन थे?

- (a) बी.जी. खेर
- (b) जी.बी. पंत
- (c) लाल बहादुर शास्त्री
- (d) इनमें से कोई नहीं

43. Who was the first chairman of the Official Language Commission?

- (a) B.G.Kher
- (b) G.B.Pant
- (c) Lal Bahadur Shastri
- (d) None of these

44. राजभाषा आयोग की सिफारिश पर गठित समिति के प्रथम अध्यक्ष कौन थे?

- (a) बी.जी. खेर
- (b) जी.बी. पंत
- (c) लाल बहादुर शास्त्री
- (d) इनमें से कोई नहीं

44. Who was the first chairman of the committee which was formed on the recommendation of the official language commission

- (a) B.G. Kher
- (b) G.B. Pant
- (c) Lal Bahadur Shastri
- (d) None of these

45. संविधान के अनुसार, वैधानिक नियमों, विनियमों और आदेशों का अनुवाद कौन करता है?

- (a) विधि मंत्रालय
- (b) गृह मंत्रालय
- (c) मानव संसाधन विकास मंत्रालय
- (d) इनमें से कोई नहीं

45. As per the constitution, who is translating the statutory Rules, Regulations and Orders?

- (a) Law ministry
- (b) Home ministry
- (c) HRD ministry
- (d) None of these

46. 1976 का कौन सा राजभाषा नियम, अधिकारी/कर्मचारी के कार्यसाधक ज्ञान का उल्लेख करता है?

- (a) नियम-8
- (b) नियम-9
- (c) नियम-10
- (d) इनमें से कोई नहीं

46. Which Official Language Rule of 1976, mentions about the working knowledge of the Officer/ Employee?

- (a) Rule-8
- (b) Rule-9
- (c) Rule-10
- (d) None of these

47. भाग VI के अंतर्गत कौन सा अनुच्छेद आता है?

- (a) अनुच्छेद 120
- (b) अनुच्छेद 343
- (c) अनुच्छेद 344
- (d) अनुच्छेद 210

47. Which article comes under part VI?

- (a) Article 120
- (b) Article 343
- (c) Article 344
- (d) Article 210

48. 1973 में गठित प्रथम रेलवे हिंदी सलाहकार समिति की अध्यक्षता किसने की थी?

- (a) श्री ललित नारायण मिश्र
- (b) श्री बी.जी. खेर
- (c) श्री जी.बी. पंत
- (d) श्री लाल बहादुर शास्त्री

48. Who chaired the first railway Hindi Salahkar Samiti constituted in 1973?

- (a) Sri Lalit Narayan Mishra
- (b) Sri B.G.Kher
- (c) Sri G.B.Pant
- (d) Sri Lal Bahadur Shastri

49. वर्ष 1976 में गठित संसदीय राजभाषा समिति के अध्यक्ष कौन थे?

- (a) ओ.एम. मेहता
- (b) श्री बी.जी. खेर
- (c) श्री जी.बी. पंत
- (d) श्री लाल बहादुर शास्त्री

49. Who was the chairman of the parliamentary committee on official language constituted in the year 1976?

- (a) OM Mehta
- (b) Sri B.G.Kher
- (c) Sri G.B.Pant
- (d) Sri Lal Bahadur Shastri

50. राष्ट्रपति के आदेश 1952 के अनुपालन में रेलवे बोर्ड की सामान्य शाखा में हिंदी सहायक का पद किस वर्ष सृजित किया गया था?

- (a) 1952
- (b) 1953
- (c) 1954
- (d) 1955

50. In which year the post of Hindi Asst. was created in General Branch of Railway Board in compliance of president's order 1952?

- (a) 1952
- (b) 1953
- (c) 1954
- (d) 1955

उत्तर / Answers:

1 (d), 2 (c), 3 (d), 4 (a), 5 (d), 6 (a), 7 (b), 8 (d), 9 (c), 10 (b), 11 (b), 12 (d), 13 (a), 14 (d), 15 (a), 16 (a), 17 (b), 18 (b), 19 (a), 20 (c), 21 (c), 22 (d), 23 (a), 24 (b), 25 (a), 26 (c), 27 (c), 28 (b), 29 (a), 30 (a), 31 (b), 32 (a), 33 (c), 34 (c), 35 (b), 36 (a), 37 (c), 38 (a), 39 (d), 40 (c), 41 (c), 42 (a), 43 (a), 44 (b), 45 (a), 46 (c), 47 (d), 48 (a), 49 (a), 50 (a)