

**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 earthling?
- (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. GFLORE 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 exhauster
 - (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. Liquified 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

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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

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- (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

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- (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

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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

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- (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

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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

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- (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

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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

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- (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

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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

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(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

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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

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- (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?
- (a) अनुच्छेद 343
 - (b) अनुच्छेद 351
 - (c) अनुच्छेद 210
 - (d) अनुच्छेद 345
8. Which article of the Constitution of India empowers the Indian states to choose their own Official Language?
- (a) Article 343
 - (b) Article 351
 - (c) Article 210
 - (d) 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?
- (a) राज्य में बोली जाने वाली सभी भाषाएँ
 - (b) हिंदी भाषा
 - (c) अंग्रेजी भाषा
 - (d) 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?
- (a) All the languages spoken in the state
 - (b) Hindi Language
 - (c) English Language
 - (d) 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?
- (a) हिंदी में
 - (b) अंग्रेजी में
 - (c) भारत के संविधान की 8वीं अनुसूची में उल्लिखित किसी भी भाषा में
 - (d) 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?
- (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
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)

**Question Bank for JE/Dsl/Mech against 25% quota
Mechanical (Diesel)**

A. ALCO Locomotives:

1. Which pressure is adjusted by limiting valve
 - (a) F-1 pressure
 - (b) BP pressure
 - (c) FP pressure
 - (d) Synchronization pressure

2. When emergency brake application is done through A- 9 in flasher light modified loco the condition of loco will be
 - (a) Loco comes to idle and nothing else happens
 - (b) Loco comes to idle, flasher light is on
 - (c) Loco comes to idle, flasher light is on & buzzer blows
 - (d) Loco does not come to idle, flasher light is on & buzzer blows

3. PATB buzzer blows when
 - (a) AFI needle is above 60
 - (b) AFI needle is below 60
 - (c) AFI needle is above 80
 - (d) AFI needle is above 70

4. Unit of Air Flow Indicator (AFI) is
 - (a) Kg/cm²
 - (b) Pound / inch
 - (c) Wagon reading
 - (d) Km/h

5. How many position setting of C3 W distributor valve has
 - (a) Two position setting
 - (b) One position setting
 - (c) Three position setting
 - (d) No different setting

6. On operating D-1 emergency which pressure drops
 - (a) MR
 - (b) BP
 - (c) HS-4
 - (d) No air supply

7. How many position of A-9 valve have.
 - (a) 05 breaking position
 - (b) 04 breaking position
 - (c) 03 breaking position
 - (d) 01 breaking position

8. Air supply for horn is from.
 - (a) MR-1 tank
 - (b) MR-2 tank
 - (c) J filter
 - (d) HS-4
9. Overcharging (In air brake system) feature is applied by which air brake valve
 - (a) C3 W distributor valve
 - (b) VA-1B control valve
 - (c) C2-W relay valve
 - (d) VA-1 release valve
10. Above C2- relay diaphragm air pressure comes from
 - (a) A-9 valve
 - (b) SA-9 valve
 - (c) MR pressure
 - (d) Synchronization on pressure
11. Duplex check valve operates when MR pressure reaches at pressure (kg/cm²)
 - (a) 5 kg/cm²
 - (b) 6kg/cm²
 - (c) Always open
 - (d) 10 kg/cm²
12. Max. Permissible time for loco brake release in seconds is. The loco fitted with chock in C2 relay valve.
 - (a) 50 sec
 - (b) 40 sec
 - (c) 24 sec
 - (d) 30 sec
13. R-6 relay valve is fitted in loco for
 - (a) Quick MR charging
 - (b) Quick working of AFMV valve
 - (c) Quick vacuum building
 - (d) By passing AFMV
14. The standard Colour of humidity indicator in air dryer is
 - (a) Orange
 - (b) Purple
 - (c) Blue
 - (d) White
15. Air dryer starts functioning, when MR pressure reaches to (PSI)
 - (a) 100 PSI
 - (b) 200 PSI
 - (c) 150 PSI
 - (d) Immediately as loco start

16. Thread diameter of BP & FP angle cocks (in inch) is...
- (a) 1"
 - (b) 3"
 - (c) 2"
 - (d) 1¼ "
17. MR safety valve is set at pressure (in kg/cm²)
- (a) 10.0 kg/cm²
 - (b) 6.0 kg/cm²
 - (c) Above 10.5 kg/cm²
 - (d) Below 6.0 kg/cm²
18. Auto drain valve blows during
- (a) Loading of compressor
 - (b) Unloading of compressor
 - (c) When „MR safety valve blow
 - (d) MR pressure is above 10.5 kg/cm²
19. Feed valve is charged from
- (a) MR-1 tank
 - (b) MR-2 tank
 - (c) "J" filter
 - (d) BP pipe
20. When driver is working from right control stand and A-9 is applied from left control stand in emergency position, what will happen?
- (a) Loco will come to idle
 - (b) Loco will not come to idle
 - (c) Loco will shutdown
 - (d) Only BP will drop and nothing else will happen
21. In minimum reduction position of A-9 brake valve BP should drop upto (PSI)...
- (a) 0 to 3 PSI
 - (b) 4 to 7 PSI
 - (c) 8 to 11 PSI
 - (d) 12 to 15 PSI
22. Additional C-2 relay valve is used in air brake system for
- (a) MR pipe charging
 - (b) BP pipe charging
 - (c) Vacuum train pipe charging
 - (d) Feed pipe charging
23. How many numbers of positions MU2B valve have
- (a) One position
 - (b) Two positions
 - (c) Three positions
 - (d) Four positions

24. Conjunction brakes in IRAB System is applied by
- (a) Ad C2 Relay valve
 - (b) C2 Relay valve
 - (c) N1 Reducing valve
 - (d) C3W Relay valve
25. During emergency breaking the maximum air pressure in brake cylinder is
- (a) 4 Kg/cm²
 - (b) 5 Kg/cm²
 - (c) 2 Kg/cm²
 - (d) 3 Kg/cm²
26. Calibration of Air Flow measuring valve is adjusted at which at reading
- (a) 80 wagon reading
 - (b) 90 wagon reading
 - (c) 100 wagon reading
 - (d) 110 wagon reading
27. When does auto drain check valve operates
- (a) At the time of loading of compressor
 - (b) At the time of unloading of compressor
 - (c) In above both cases
 - (d) When loading/unloading of compressor is defective
28. MR pressure outlet pipe of air flow measuring valve goes to..
- (a) C-2 relay valve
 - (b) Add. C-2 relay valve
 - (c) A-9 brake valve
 - (d) SA-9 brake valve
29. In case BP pressure is fluctuating the possible defect is in which valve
- (a) C-2 relay valve defective
 - (b) Add C2 relay valve is defective
 - (c) SA-9 is defective
 - (d) C3W distributor valve is defective
30. In full service position of A-9 auto brake valve pressure reduction is between (PSI).....
- (a) 18 to 21 psi
 - (b) 23 to 26 psi
 - (c) 30 to 33 psi
 - (d) 35 to 38 psi
31. In over reduction position of A-9 auto brake valve pressure reduction is between (PSI)....
- (a) 27 to 30 psi
 - (b) 34 to 46 psi
 - (c) 50 to 62 psi
 - (d) 65 to 77 psi

32. When drying capacity of air dryer is reduced the colour of humidity indicator changes to
- (a) Pink
 - (b) White
 - (c) Green
 - (d) Black
33. While keeping lead/trail switch in trail ER pressure is
- (a) ER Pressure is less than 1 kg/cm²
 - (b) ER Pressure is zero
 - (c) ER Pressure is 3.5 kg/cm²
 - (d) ER Pressure is 5 kg/cm²
34. Air supply to power contractor is from
- (a) MR-1
 - (b) MR-2
 - (c) BP pressure
 - (d) HS-4 valve
35. Wiper gets the air supply from.....
- (a) MR-1
 - (b) MR-2
 - (c) BP pressure
 - (d) HS-4 valve
36. In lead position of MU2B valve which ports dose not connect with each other
- (a) 3&13
 - (b) 2&20
 - (c) 53&63
 - (d) 13&30
37. On applying brake through A-9 valve, which port of F-1 selector valve connect with each other in synchronization braking
- (a) 4&16
 - (b) 12&14
 - (c) 30&15
 - (d) 15& 20
38. In which position of A-9 brake valve its vent valve operates
- (a) Minimum reduction position
 - (b) Full service position
 - (c) Over reduction position
 - (d) Emergency position
39. In multiple unit locos to open VA-1 release valve, air pressure comes from which valve
- (a) From A-9 valve
 - (b) From F-1 selector valve
 - (c) From A-1 differential pilot valve
 - (d) From SA-9 valve

40. The governor of air compressor get supply from.....
- (a) MR-1 pressure
 - (b) MR-2 pressure
 - (c) BP pressure
 - (d) B.C. pressure
41. To operate sander valve the air supply is received from
- (a) MR-1 pressure
 - (b) MR-2 pressure
 - (c) BP pressure
 - (d) Brake cylinder pressure
42. In ALCO During which stroke inlets valves opens
- (a) Suction
 - (b) Compression
 - (c) Power
 - (d) Exhaust
43. In ALCO During which stroke both valves closed
- (a) Suction
 - (b) Compression
 - (c) Power
 - (d) Exhaust
44. In WDM3D Locos, how many Main Bearing journals are in one crankshaft?
- (a) 7 Nos.
 - (b) 6 Nos.
 - (c) 8 Nos.
 - (d) 9 Nos
45. In WDM3D Locomotive, how many crank pins are on crankshaft?
- (a) 6 Nos.
 - (b) 7 Nos.
 - (c) 9 Nos.
 - (d) 8 Nos.
46. In WDM3D Loco, how many thrust bearing are used
- (a) 2 Nos
 - (b) 1 Nos
 - (c) 3 Nos
 - (d) None
47. In WDG3A Locos, how many thrust bearing are used?
- (a) 1 Nos.
 - (b) 2 Nos.
 - (c) None

(d) 3 Nos

48. Clearance between crankshaft journal & bearing is (in inch).....

- (a) .001" to .005"
- (b) .005" to .010"
- (c) .002" to .006"
- (d) .004" to .008"

49. How many cam segments are fitted in WDM3A loco

- (a) 6 Nos
- (b) 7 Nos
- (c) 8 Nos
- (d) 10 Nos

50. Size of Main Bearing journals is (in inch).....

- (a) 6"
- (b) 8.5"
- (c) 10.0"
- (d) 9.0"

51. How many cam shaft bushes are fitted in one 16 cylinder block

- (a) 14
- (b) 16
- (c) 18
- (d) 20

52. How many teeth are in split gear

- (a) 28
- (b) 30
- (c) 34
- (d) 36

53. During setting of cam gear timing which piston is kept at TDC

- (a) R-1
- (b) L-1
- (c) R-8
- (d) L-8

54. How many cam segments are fitted in WDM3D Loco

- (a) 15
- (b) 16
- (c) 7
- (d) 8

55. In WDM3D loco, which type of lubrication system is used?

- (a) Splash Type
- (b) Forced feed
- (c) Self lubricated

(d) None of these

56. Main crankshaft vibration damper is fitted near which main bearings in WDM3A locos

- (a) No-5
- (b) No-7
- (c) No-9
- (d) No-1

57. In WDM3A loco split gear is mounted on crankshaft near main bearing

- (a) No-1
- (b) No-5
- (c) No-7
- (d) No-9

58. Crankshaft vibration damper is fitted with crankshaft with the help of

- (a) Key
- (b) Dowel
- (c) Nuts & Bolts
- (d) None of these

59. How many cam lobes are in one cam segment

- (a) 3
- (b) 4
- (c) 6
- (d) 9

60. What is the condemning size of liner?

- (a) 228.68 mm
- (b) 220.70 mm`
- (c) 230.72 mm
- (d) 231.74 mm

61. In Alco loco, single exhaust manifolds have following no. of pieces

- (a) 6
- (b) 7
- (c) 8
- (d) 5

62. In WDM3D Loco, one exhaust manifold connects with how many cylinder Heads

- (a) One
- (b) Four
- (c) Two
- (d) Three

63. What should be minimum run out of extension shaft?

- (a) 005"
- (b) 003"
- (c) 001"

(d) 0000"

64. In ALCO Water pump is driven from.....

- (a) Split gear
- (b) Cam gear
- (c) Extension shaft gear
- (d) Main generator gear

65. In ALCO Lube oil pump is driven from.....

- (a) Split gear
- (b) Cam gear
- (c) Extension shaft
- (d) Main generator gear

66. In WDM3A loco thrust bearing is fitted at location

- (a) No.1 Upper
- (b) No.4 Upper
- (c) No.5 Lower
- (d) No.9 Upper

67. Honey combing is related with

- (a) Cylinder Head
- (b) Piston
- (c) Liner
- (d) Connecting rod

68. What is the maximum allowed deflection of main generator

- (a) $\pm .0005"$
- (b) $\pm .001"$
- (c) $\pm .015"$
- (d) $\pm .0008"$

69. In ALCO TSC, Rotor side, what is the material of oil seal

- (a) Aluminum
- (b) Rubber Seal
- (c) Brass Seal
- (d) Carbon Seal

70. In ALCO Universal shaft is used to drive radiator fan because

- (a) It is rigid
- (b) It is strong
- (c) It is self align
- (d) It is weak

71. GE Governor is operated.....
- (a) Mechanically
 - (b) Hydraulically
 - (c) Pneumatically
 - (d) None of these
72. In ALCO TSC surging on higher notches is due to
- (a) Excess fuel rack
 - (b) Chocked air maize
 - (c) Less area of nozzle ring
 - (d) Any of the above
73. In ALCO Hammering sound is coming from engine is due to.....
- (a) Exhaust valve bend
 - (b) Fuel cam worn out
 - (c) X-head roller worn out
 - (d) Any of the above
74. In ALCO Smoke is coming from „SMOKE" hole of cylinder Head indicates.....
- (a) Injector seal is not proper
 - (b) Over torturing
 - (c) Injector crack
 - (d) Injector not fitted
75. In ALCO TSP treatment is done for.....
- (a) To remove scaling
 - (b) To decrease the cooling efficiency
 - (c) To avoid any chemical reaction
 - (d) To improve chloride value
76. When hot engine alarm is operated, the condition of loco comes to
- (a) Idle
 - (b) Run on same speed
 - (c) Shut down
 - (d) None of above
77. What is the unit of S.F.C. (Specific Fuel consumption)
- (a) gm/hp/hr
 - (b) Liters/Kwhr/minutes
 - (c) Kg/Newton/hr
 - (d) None
78. In yearly loco, pre priming break in filters are used.....
- (a) To arrest the foreign material
 - (b) To increase the pressure
 - (c) To maintain the pressure

(d) To avoid water contamination

79. In ALCO The temperature difference between the two consecutive main bearings should not exceed by

- (a) 5°C
- (b) 2°C
- (c) 10°C
- (d) 20°C

80. CCE motor giving thick black smoke is due to

- (a) Increase liner wear
- (b) Valve guide clearance more
- (c) TSC rotor defective
- (d) Fuel motor defective

81. Fuel test cock pressure is used for checking

- (a) Lube oil pressure dropping
- (b) Booster pressure dropping
- (c) Fuel pressure dropping
- (d) Air pressure dropping

82. Exhaust gas temperature at ABB TSC inlet is

- (a) 700°C
- (b) 600°C
- (c) 450°C
- (d) 750°C

83. Exhaust gas temperature at ALCO TSC inlet is

- (a) 300°C
- (b) 590°C
- (c) 400°C
- (d) 800°C

84. Which item is increases the copper content in lube oil

- (a) Piston wear
- (b) Liner wear
- (c) X-head floating bush wear
- (d) Silicon

85. In WDM3D the angle of firing order from L to R is

- (a) 60°
- (b) 45 °
- (c) 30°
- (d) 75°

86. Engine crank case vacuum is not building up due to

- (a) Linear chrome plating worn out
- (b) Fuel motor not working

- (c) Dust blower not working
 - (d) Engine RPM less
87. Which of the following is the reason of hot engine
- (a) ETS setting defective
 - (b) Radiator fan not working
 - (c) Radiator fins chocked
 - (d) Any of above
88. In ALCO Engine giving blueish smoke indicates.....
- (a) Water mix in fuel oil
 - (b) Injector hole chocked partially
 - (c) Cylinder head valve guide clearance more
 - (d) FIP delivery less
89. In ALCO White smoke given by engine is due to
- (a) FIP not responding
 - (b) Tappet phasing disturbs
 - (c) Cylinder head crack internally
 - (d) X-head having abnormal sound
90. For the same HP and bore size, which engine will be heavier
- (a) Petrol engine
 - (b) Diesel engine
 - (c) Jet engine
 - (d) None of the above
91. What is compression ratio of WDG3A
- (a) 12.0:1
 - (b) 11.5: 1
 - (c) 12.5:1
 - (d) 13.0: 1
92. Minimum RPM of engine with low idle feature is
- (a) 390
 - (b) 410
 - (c) 350
 - (d) 370
93. Which of the following is not the safety item of locomotive
- (a) OST B.
 - (b) LWS
 - (c) Governor
 - (d) ACP
94. In ALCO BAP is not building up due to
- (a) TSC rotor jam
 - (b) Gov. defective

- (c) Air Intel gasket burst
 - (d) Any one of above
95. In ALCO Which of the following is not the reason of low BAP
- (a) Unmodified FIP
 - (b) Unmodified after cooler
 - (c) Radiators fins chocked
 - (d) None of these
96. In ALCO Which of the following is not item of fuel efficient loco
- (a) Steel cap piston
 - (b) Modified FIP
 - (c) ALCO TSC
 - (d) Large After Cooler
97. In ALCO, Which of the following statement is not true?
- (a) Comp. Ratio in diesel engine is more than Petrol engine.
 - (b) For high HP diesel engine are used
 - (c) Ignition in diesel engines takes place by comp. of air
 - (d) For the same HP diesel Engine are lighter as compare to Petrol engine
98. In ALCO, What are the possible causes of injector not responding
- (a) Injector nozzle hole chocked
 - (b) Phasing on up position
 - (c) Fuel cam lob damage
 - (d) Any of the above
99. What is the delivery of modified FIP on test bench at full rack position
- (a) 400 CC
 - (b) 350 CC
 - (c) 425CC
 - (d) 450 CC
100. Which of the following is prime mover
- (a) Engine
 - (b) Traction Generator
 - (c) Traction Motor
 - (d) None of the above
101. High viscosity indicates
- (a) Mixing of water in lube oil
 - (b) Mixing of fuel in lube oil
 - (c) Mixing of carbon contents
 - (d) None of these
102. What is the cause of increase silicon in lube oil
- (a) Linear wear
 - (b) X-head wear

- (c) Dust
 - (d) Water leakage
103. In ALCO, Cylinder Head hydraulic testing is done at
- (a) 5.0 kg/cm²
 - (b) 10.0 kg/cm²
 - (c) Kg/cm²
 - (d) 2.5
104. In ALCO Extension shaft clearance limit is
- (a) .006"
 - (b) .020"
 - (c) .015"
 - (d) .060"
105. In ALCO, In scavenging period burnt gases are pushed out by
- (a) Fresh air
 - (b) By burnt gases
 - (c) By TSC
 - (d) Nothing of these
106. In ALCO, During over lapping period inlet and exhaust valve remain in
- (a) Closed position
 - (b) Open position
 - (c) Open & close position
 - (d) Nothing of these
107. In ALCO, Engine hunting is due to
- (a) Rake movement not free
 - (b) Excess fuel pressure
 - (c) Low fuel pressure
 - (d) Nothing of these
108. In ALCO, Low phasing means
- (a) After burning of fuel
 - (b) Correct burning of fuel
 - (c) Without burning of fuel
 - (d) Nothing of these
109. In ALCO, Engine given thick black smoke due to
- (a) Low BAP
 - (b) Less fuel oil level
 - (c) Defective CCE motor
 - (d) Defective manifold
110. In ALCO, Crank pin condemning limit is
- (a) 152.40 mm
 - (b) 152.60 mm

- (c) 152.30 mm
 - (d) 152.34 mm
111. In ALCO, Main bearing general surface finish is
- (a) 25 RMS
 - (b) 40 RMS
 - (c) 50RMS
 - (d) 60 RMS
112. In ALCO, Crank shaft is supported at journal nos.
- (a) 2 & 7
 - (b) 9 & 1
 - (c) 4 & 8
 - (d) 3 & 6
113. In ALCO, Crankshaft is lifted from crank pin nos. (In WDM3A)
- (a) 8 & 4
 - (b) 2 & 7
 - (c) 9 & 1
 - (d) 3 & 7
114. In ALCO, Bucklnsh of cum gear is
- (a) .006" to .012"
 - (b) .030" to .040"
 - (c) .034" to .045"
 - (d) .020" to .039"
115. In ALCO, In fuel injection pump (FIP) meaning of "No Fuel Position " is
- (a) Helix of plunger is to be in front of spill port
 - (b) Helix of plunger is to be separated from split port
 - (c) Either or above
 - (d) None of these
116. In ALCO, At what degree the spray hole in injector nozzle is made
- (a) 60°
 - (b) 40°
 - (c) 50°
 - (d) 30°
117. In ALCO, Out of which safety device, engine comes to idle
- (a) OST
 - (b) LWS
 - (c) ACP
 - (d) Low lube oil indication
118. In ALCO, Which item increases the sodium (Na) contains in lube oil
- (a) Mixing of fuel oil in lube oil
 - (b) Mixing of Water in lube oil

- (c) Mixing of Lube oil in fuel oil
 - (d) None of these
119. Which type of bogie is used in WDM3A loco
- (a) Bi-mount
 - (b) Tri mount
 - (c) Uni mount
 - (d) None of above
120. Centre pivot of bogie of WDM3A is located between
- (a) Leading axles and middle axles
 - (b) Trailing axles and middle axles
 - (c) On the middle axle
 - (d) On the trailing axle
121. How much percentage of load does center pivot of WDM3A bogie carries
- (a) 40%
 - (b) 50%
 - (c) 60%
 - (d) 70%
122. Which type of suspension in WDM3A loco bogie has
- (a) Single stage
 - (b) Double stage
 - (c) Multi stage
 - (d) None of the above
123. The main advantage of single stage suspension is
- (a) To raise the center of gravity
 - (b) To lower the center of gravity
 - (c) To improve bogie speed
 - (d) To reduce bogie maintenance
124. The device used to transmit loco speed from wheels to the speedometer is called
- (a) Tacho generator
 - (b) Auxiliary generator
 - (c) Axle generator
 - (d) Main Generator
125. In ALCO, Traction motor load of is transferred on bogie frame through
- (a) Main journal
 - (b) Suspension nose
 - (c) Axle box
 - (d) Helical coil spring
126. In ALCO, Height of side buffer should be maintained between
- (a) 1105 mm to 1030 mm
 - (b) 1150 mm to 1000 mm

- (c) 1150 mm to 900 mm
- (d) 1105 mm to 800 mm

127. In ALCO, Buffer height can be adjusted by

- (a) Adding shims to load pads & side bearers
- (b) Adding shims to spring seat
- (c) Both A & B"
- (d) None of the above

128. In ALCO, Amount of shims that could be added to centre pivot & side bearers to adjust side buffer height

- (a) 50 mm
- (b) 21 mm
- (c) 12 mm
- (d) 35 mm

129. In ALCO, Amount of shims that could be added to spring seat to adjust side buffer height

- (a) 6 mm
- (b) 12 mm
- (c) 30 mm
- (d) 35mm

130. In ALCO, Minimum distance between brake block & wheel in release position should be

- (a) 5 mm
- (b) 10 mm
- (c) 15 mm
- (d) 20 mm

131. Brake piston travel adjustment in WDM3A is recommended between

- (a) 20mm to 30mm
- (b) 10mm to 15 mm
- (c) 67 to 100 mm
- (d) 50mm to 200 mm

132. Gear case bolts of WDM3A bogies is torque at

- (a) 600-700 ft. lbs
- (b) 1000-1200 ft. lbs.
- (c) 1400-1600 ft.lbs
- (d) 350-500 ft. lbs

133. The wheel dia variation of WDM3A loco on same bogie is permitted upto

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

134. The wheel dia variation of WDM3A on same axle is permitted upto

- (a) 2 mm
- (b) 3 mm

- (c) 4 mm
- (d) 0.5 mm

135. The wheel dia variation of WDM3A on some loco is permitted upto

- (a) 10 mm
- (b) 15 mm
- (c) 20 mm
- (d) 25 mm

136. Gauge width of broad gauge loco should be

- (a) 1596+- 0.5mm
- (b) 1596+- 0.7 mm
- (c) 1596+- 0.8 mm
- (d) 1596+- 0.9 mm

137. Cranks in the axle are detected by

- (a) Magna fluxtest
- (b) Ultrasonic test
- (c) Zyglo test
- (d) Chemical test

138. Nos. of teeth of bull gear of WDM3A bogie is

- (a) 62
- (b) 65
- (c) 68
- (d) 70

139. Free height of outer coil spring of WDM3A loco is

- (a) 450+-8mm
- (b) 451+-8mm
- (c) 452 +-8mm
- (d) 455+- 8mm

140. Free height of inner coil spring with nominal coil dia 130 mm of the bogie of WDM3A loco is

- (a) 423 mm
- (b) 423+-6mm
- (c) 423+-8mm
- (d) 423+-2mm

141. Axle load of WDM3D loco is

- (a) 17.5Tones
- (b) 18.5Tones
- (c) 19.5Tones
- (d) 20.5Tones

142. Weight of complete bogie of WDG3A loco is

- (a) 24.00Tones
- (b) 21.00Tones

- (c) 25.00Tones
- (d) 22.50Tones

143. Length of WDM3D loco over buffer is

- (a) 19250mm
- (b) 20128mm
- (c) 21260mm
- (d) 22300mm

144. No. of outer coil springs per bogie in WDG3A loco is

- (a) 6
- (b) 8
- (c) 12
- (d) 16

145. No. of outer coil springs in WDG3A loco is

- (a) 16
- (b) 24
- (c) 32
- (d) 12

146. No. of outer coil springs per bogie in WDM3D loco is

- (a) 6
- (b) 12
- (c) 8
- (d) 16

147. No. of outer coil springs in WDM3D loco is

- (a) 10
- (b) 12
- (c) 14
- (d) 24

148. Free height of outer coil springs of WDG3A loco is

- (a) 480 mm
- (b) 450 mm
- (c) 500 mm
- (d) 520 mm

149. Free height of outer coil springs of WDM3D loco is

- (a) 490 mm
- (b) 500 mm
- (c) 560 mm
- (d) 540 mm

150. No. of primary vertical dampers per bogie in WDM3D loco is

- (a) 6
- (b) 5

- (c) 4
- (d) 8

151. No. of primary vertical dampers per loco in WDG3A loco

- (a) 6
- (b) 4
- (c) 8
- (d) 12

152. No. of horizontal damper per bogie in WDM3D loco is

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

153. No. of horizontal damper per loco in WDG3A loco bogie is

- (a) 8
- (b) 6
- (c) 2
- (d) 10

154. No. of secondary lateral damper per bogie in WDG3A loco is

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

155. No. of secondary lateral damper per loco in WDG3A loco is

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

156. Total axle box lateral clearance for front and back wheel of WDG3A Loco is

- (a) 12 mm
- (b) 10 mm
- (c) 8 mm
- (d) 6 mm

157. Total axle box lateral clearance for intermediate wheel of WDG3A Loco is

- (a) 20 mm
- (b) 25 mm
- (c) 15 mm
- (d) 10 mm

158. Total axle box side clearance for wheel of WDG3A Loco is

- (a) 3.5 mm
- (b) 2.5 mm

- (c) 1.5 mm
- (d) 0.5 mm

159. In ALCO, Height of the cattle guard from rail is

- (a) 8 ½ inches
- (b) 5 ½ inches
- (c) 6 ½ inches
- (c) 4 ½ inches

160. No. of secondary suspension load pads in WDG3A Loco is

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

161. Bogie of WDG3A loco is designated as

- (a) HTSC
- (b) Fabricate
- (c) Flexi-coil Mk-7
- (d) Flexi-coil Mk-10

162. Total no. of Brake blocks per bogie in WDM3D loco is

- (a) 12
- (b) 10
- (c) 16
- (d) 14

163. Total no. of brake blocks in WDM3D loco is

- (a) 16
- (b) 24
- (c) 18
- (d) 20

164. No. of traction motors per bogie in WDM3D loco is

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

165. No. of traction motors in WDM3D loco is

- (a) 1
- (b) 2
- (c) 4
- (d) 6

166. To transfer traction & breaking forces between bogie frame bolster and WDM3D loco bogie is provided with
- (a) Guide link
 - (b) Axle boxes
 - (c) Damper
 - (d) Traction rod
167. The shape of Bo- Bo bogie frame resembles to English alphabet
- (a) A
 - (b) C
 - (c) E
 - (d) H
168. Expanded form of TBU is
- (a) Truck brake unit
 - (b) Tread brake unit
 - (c) Terminal brake unit
 - (d) Thread brake unit
169. Minimum CBC height from the Rail for Loco is
- (a) 1050 mm
 - (b) 1030 mm
 - (c) 1000 mm
 - (d) 1100 mm
170. The thickness of centre pivot liner of WDM3A loco in bogie is
- (a) 6 mm
 - (b) 8 mm
 - (c) 10 mm
 - (d) 12 mm
171. The tri- mount bogie consists of
- (a) A single piece carbon steel frame
 - (b) A single piece cast steel frame
 - (c) A double piece carbon steel frame
 - (d) A double piece cast steel frame
172. In WDM3A, the cylindrical pivot liner which transmits
- (a) Traction forces
 - (b) Braking forces
 - (c) Traction and braking forces
 - (d) None of the above
173. Silent block flexible bearings are used in
- (a) Traction bar
 - (b) Guide link
 - (c) Traction motor
 - (d) Suspension tube

174. Pinion and bull gear ratio of WDM3A Loco.

- (a) 17:90
- (b) 18:65
- (c) 17:77
- (d) 35:90

175. Traction and braking forces are transmitted from wheel-set to bogie frame through

- (a) Hydraulic dampers
- (b) Rubber pads
- (c) Happy pads
- (d) Horn guide

176. Buffer height can be adjusted by

- (a) Adding shims to load pads & side bearers
- (b) Adding shims to spring seat
- (c) Both A & B
- (d) None of the above

177. Slack adjuster is initially set to provide a safe release of

- (a) 6 mm
- (b) 8 mm
- (c) 10 mm
- (d) 12 mm

178. With new wheels & brake shoes the initial setting of safe release is 10 mm. At this position the piston travel will be

- (a) 50 mm
- (b) 57 mm
- (c) 67 mm
- (d) 77 mm

179. The limit of flat spot on wheel is

- (a) 30 mm
- (b) 40 mm
- (c) 50 mm
- (d) 60 mm

180. If flat spot on wheel is exceeds 50 mm, then

- (a) Wheel set to be sent for re dishing
- (b) Wheel set should be connected
- (c) Dressing is done before turning
- (d) None of the above

181. Eddy current clutch is located in

- (a) Nose compartment
- (b) Control compartment
- (c) Expresser room

(d) Radiator room

182. FTTM driven with

- (a) Electric motor.
- (b) Belts
- (c) Gear
- (d) Hydraulic pressure

183. LWS is connected to

- (a) Water left side return header
- (b) Water expansion tank
- (c) Water right side return header
- (d) All the above

184. 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

185. What happens if Amphenol plug is slack on run in WW governor loco?

- (a) Engine Idle, Load meter zero
- (b) Only Load meter zero
- (c) Only engine idle
- (d) Engine shut down

186. To get quick charging of BP which should be operated?

- (a) SW1&SW2
- (b) SP1&SP2
- (c) MCB1&MCB2
- (d) MFPB1&MFPB2

187. What should be the control air pressure?

- (a) 5 Kg/Cm²
- (b) 6 Kg/Cm²
- (c) 8.5 Kg/Cm²
- (d) 9.5 Kg/Cm²

188. How do you adjust control air pressure?

- (a) A9 Feed valve
- (b) SA9 Feed valve
- (c) Limiting Valve
- (d) HS4 Valve

189. Maximum Brake cylinder pressure with A9

- (a) 5kg/cm²
- (b) 3.5kg/cm²
- (c) 1.8kg/cm²

(d) 5.2kg/cm²

190. Type of engine in Alco loco

- (a) 2 Stroke
- (b) SI
- (c) 4Stroke
- (d) None

191. In Alco loco fuel oil regulating valve is set at kg/cm²

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

192. In Alco loco compressor is cooled by

- (a) Oil
- (b) Water
- (c) Air
- (d) None

193. To find out BP leakage in the formation is provided

- (a) P gauge
- (b) Air Flow Indicator
- (c) FP gauge
- (d) Spy glass

194. In Alco loco, if water level comes down below 1" from bottom of tank safety device will operate

- (a) PCS
- (b)OSTA
- (c)LWS
- (d)LLOB

195. The safety device provided in brake system is

- (a)PCS
- (b)OSTA
- (c)LWS
- (d)LLOB

196. Idle RPM of WDG3A locomotive is

- (a) 350
- (b) 400
- (c) 450
- (d) 500

197. 8th Notch RPM of WDG3A locomotive is
(a) 350
(b) 400
(c) 450
(d) 1050
198. Fabricated bogie is available in locomotive
(a)WDM3A
(b)WDG4
(c)WDG3A
(d)WDP4
199. Electro Pneumatic Governor is located in
(a)Compressor room
(b)Radiator room
(c)Nose compartment
(d)None
200. OnWDG3A each truck is fitted with Arrangement of traction motors
(a) RRR
(b)LRR
(c)LRL
(d)LLL & RRR
201. In Wood ward governor loco LLOB tripping is set at ----- kg/cm² in Idle
(a)1.3
(b)2.5
(c)3.5
(d)5.0
202. L5HP pipe line is cracked
(a) Fail the loco
(b)Lock rack of L5
(c) lock left side racks
(d) Ignore
203. If radiator room door remain open position ----- will be experienced
(a) Engine shutdown
(b) Hot Engine
(c) Load meter not responding
(d) None
204. In WDM3A loco LLOB prevents engine damages due to lack of
(a) water cooling
(b) lubrication
(c) governor oil supply
(d) None of these

205. Malfunctioning of LWS leads engine to
- (a) Idle RPM
 - (b) 4thnotchRPM
 - (c) Shutdown
 - (d) None of these
206. Type of bogie is provided in WDM3A locomotive
- (a) CO-CO tri mount bogie
 - (b) CO-CO tetra mount high adhesion bogie
 - (c) CO-CO flexi coil bogie
 - (d) BO-BO tri mount bogie
207. Type of bogie is provided in WDG3A locomotive
- (a) CO-CO tri mount bogie
 - (b) CO-CO tetra mount high adhesion bogie
 - (c) CO-CO flexi coil bogie
 - (d) BO-BO tri mount bogie
208. If emergency applied-----operates and engine comes to Idle
- (a) AFL
 - (b) VCD
 - (c) PCS2
 - (d) P1
209. In WDG3A loco FTTM blowe cools____ traction motors
- (a) 1,2,3
 - (b) 4,5,6
 - (c) 1,3,5
 - (d) 2,4,6
210. In WDG3A loco RTTM blower cools____ traction motors
- (a) 1,2,3
 - (b) 4,5,6
 - (c) 1,3,5
 - (d) 2,4,6
211. Air dryer is provided between
- (a) MR Cooling coil&MR1
 - (b) MR1&MR2
 - (c) Compressor & MR cooling coil
 - (d) Intercooler & After cooler
212. Gear case of Alco locomotive is lubricated by
- (a) Lube oil
 - (b) soft grease
 - (c) hard grease
 - (d) Cardium compound

213. LLOB is provided in_____ governor
- (a) Woodward
 - (b) GE
 - (c) MCBG
 - (d) EP
214. Sanders test on WDG3A to be conducted by keeping reverser handle in position
- (a) Neutral
 - (b) Forward
 - (c) Reverse
 - (d) 'b'or'c'
215. Hot engine alarm will be experienced after
- (a) TS1 picks up
 - (b) LLOB operates
 - (c) TS2 picks up
 - (d) ETS picks up
216. While measuring with vernier bevel protractor, which part is used normally as reference surface
- (a) Stock
 - (b) Blade
 - (c) Dial
 - (d) Disc
217. Vernier depth gauge is used for measuring
- (a) External dimension
 - (b) Internal dimensions
 - (c) Step, depth of blind hole
 - (d) Pitch diameter
218. Which one of the following instruments is used for checking large internal diameter
- (a) Small hole gauge
 - (b) Telescopic gauge
 - (c) Pluge gauge
 - (d) Snap gauge.
219. The least count of a vernier outside micrometer is
- (a) 0.10mm
 - (b) 0.01mm
 - (c) 0.001mm
 - (d) 0.0001mm
220. A taper ring gauge is used for checking
- (a) External taper
 - (b) Internal taper
 - (c) External threads
 - (d) Internal threads

221. Thread ring gauge is used for checking

- (a) External threads
- (b) Internal threads
- (c) External diameter of cylindrical job
- (d) Internal diameter of jobs

222. Taper plug gauge is used for checking

- (a) Taper holes
- (b) External diameter of cylindrical parts
- (c) Internal diameter of cylindrical parts
- (d) Diameter of straight holes

223. A plug gauge which has its "Go" and "No Go" sizes on the same end is known as

- (a) Single ended plug gauge
- (b) Double ended plug gauge
- (c) Progressive plug gauge
- (d) Continues plug gauge

224. ALCO locomotive battery voltage

- (a) 50
- (b) 72
- (c) 100
- (d) 110

225. In Alco loco fuel pump motor is located in

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

226. In M.U operation in Air brake loco, conjunction working in leading loco will takes place through

- (a) 28 VB
- (b) C3W DV
- (c) A1 differential valve
- (d) F1 selector valve

227. If A9 coc is closed in both control stands

- (a) BP will not create
- (b) BP will destroy only in emergency
- (c) Loco brakes will not release
- (d) BP will not destroy

228. If SA9 COC is closed in working control stand

- (a) loco brakes will not apply
- (b) conjunction brake will not apply
- (c) loco brakes will apply
- (d) Bp will not create

229. Location of C3W DV in IRAB brake system is
- (a) B- control stand
 - (b) Nose compartment
 - (c) Under truck
 - (d) A-control stand
230. In ALCO locos turbo super charger, turbine is rotated by
- (a) Gears
 - (b) Motor
 - (c) Exhaust gas
 - (d) Clutch
231. FP pressure in Alco locomotive is _____ kg/cm²
- (a) 3.5
 - (b) 5
 - (c) 6
 - (d) 8
232. Maximum Brake cylinder pressure with SA9
- (a) 5 kg/cm²
 - (b) 3.5 kg/cm²
 - (c) 1.8 kg/cm²
 - (d) 5.2 kg/cm²
233. Pinion to Bull gear ratio in WDM3A loco is _____
- (a) 18:74
 - (b) 18:65
 - (c) 17:77
 - (d) 17:90
234. Type of transmission in WDM3A loco
- (a) DC-AC
 - (b) AC-DC
 - (c) DC-DC
 - (d) AC-AC
235. VCD penalty takes place after _____ sec.
- (a) 86
 - (b) 76
 - (c) 96
 - (d) 68
236. MR safety valve is set at _____ kg/cm²
- (a) 8
 - (b) 8.5
 - (c) 10
 - (d) 10.5

237. In AC-DC locomotives engine is cranked by
- (a) Main Generator
 - (b) Auxiliary Generator
 - (c) Exciter Generator
 - (d) Auxiliary & Exciter Generator
238. Wheel numbers to which brake blocks get applied when hand brake is applied in WDG3A loco
- (a) L1,L2
 - (b) R1,R2
 - (c) L1,R1
 - (d) L2,R2
239. In HHP locomotive engine cylinders are cooled by
- (a) Water
 - b) Oil & water
 - (c) Super charged air & Water
 - (d) None
240. Reduction in BP pressure causes
- (a) Brakes release
 - (b) Brakes slow release
 - (c) Brakes application
 - (d) MR pressure increasing
241. In Alco loco lube oil cooler is located in
- (a) Nose compartment
 - (b) Engine room
 - (c) Radiator compartment
 - (d) None
242. Cam gears are lubricated by
- (a) Main header
 - (b) Auxiliary header
 - (c) both a & b
 - (d) None
243. If explosion door burst, _____
- (a) Fail the loco
 - (b) Wait for second time
 - (c) Work on 4th notch
 - (d) Work up to destination
244. Engine having 5 kg/cm² and BV having 4.0 kg/cm² of BP then _____ test to be conducted
- (a) Efficiency
 - (b) Continuity

- (c) Blockage
- (d) Leakage

245. _____ test is to be conducted while clearing stabled loads

- (b) lockage
- (b) Leakage
- (c) BP continuity
- (d) Efficiency

246. $\frac{3}{4}$ " COC is between _____ & _____.

- (a) Additional C2 relay valve & BP pipe
- (b) MR2 & Additional C2 relay valve
- (c) C2 relay valve & Brake cylinder
- (d) None of these

247. In WDM3A axle boxes are lubricated by _____

- (a) Lube oil
- (b) Cardium compound
- (c) soft grease
- (d) hard grease

248. Position of EPG switch on control stand in rear loco of MU is set ____

- (a) Neutral
- (b) ON
- (c) OFF
- (d) Close

249. Flat tyre happen _____

- (a) If hand brake in applied condition
- (b) If SA9 is applied instead of A9 on run
- (c) Wheel is not rotating due to TM bearing seize or obstruction in gear case
- (d) All the above

250. Problem in brake power is due to _____

- (a) A9 COC in both control stands in open condition
- (b) A9 COC in both control stands in closed condition
- (c) For loaded rake load/empty device is in empty direction
- (d) All the above

251. VCD acknowledgement is done by operating _____ once in every 60 seconds

- (a) A9 application
- (b) operation of horns
- (c) Increase or decrease of Throttle
- (d) any of the above

252. In Alco locos non-working control stand A9 handle position is

- (a) Full service
- (b) Release
- (c) Over reduction
- (d) Emergency

253. Additional C2 relay valve is meant for ____ pressure creation, maintenance & destruction

- (a) FP
- (b) BP
- (c) BC
- (d) all the above

254. In MU locos, MU2B position in leading loco is ____ & in trailing loco is ____

- (a) Lead, Trail
- (b) Trail, Trail
- (c) Trail, Lead
- (d) Lead, Lead

255. ____ brake only can be applied in stabled dead loco when pneumatic pressure is zero in main reservoir

- (a) A9
- (b) SA9
- (c) Hand Brake
- (d) No brake can be applied

256. Position of A9 COCs in the loco shall be ____

- (a) Open in both control stands
- (b) Close in working control stand & Open in Non-working control stand
- (c) Open in working control stand & Close in Non-working control stand
- (d) None of the above

257. Position of SA9 COCs in the loco shall be ____

- (a) Open in both control stands
- (b) Close in working control stand & Open in Non-working control stand
- (c) Open in working control stand & Close in Non-working control stand
- (d) None of the above

258. During A9 Emergency position BP becomes ____ kg/cm² and BC becomes ____ kg/cm²

- (a) 0 & 1.8
- (b) 5 & 3.5
- (c) 2.5 & 0
- (d) 0 & 0

259. If C3W distributor valve G/P handle is placed wrongly in passenger formation

- (a) Loco brakes will apply lately
- (b) Loco brakes will not apply
- (c) Formation brakes will not apply
- (d) None

260. If C3W distributor valve G/P handle is placed wrongly in goods formation

- (a) Wheel skidding takes place
- (b) Loco brakes will not apply
- (c) Formation brakes will not apply
- (d) Loco brakes will apply lately

261. If water contaminated with lube oil, viscosity of lube oil will be ____

- (a) Less
- (b) more
- (c) remains unchanged
- (d) None

262. If water pump tell tale hole is leaking water, ____ seal may be defective

- (a) Oil
- (b) water
- (c) both a & b
- (d) None

263. If water pump tell tale hole is leaking oil, ____ seal may be defective

- (a) Oil
- (b) water
- (c) both a & b
- (d) None

264. To avoid separation of chassis & bogie ____ are provided in WDM3A locomotive

- (a) Collar pins & U bracket
- (b) D shackles
- (c) Both a & b
- (d) None of the above

265. To avoid separation of chassis & bogie ____ are provided in WDG3A locomotive

- (a) Collar pins & U bracket
- (b) D shackles
- (c) Both a & b
- (d) None of the above

266. WDG3A loco super structure load is carried by

- (a) centre pivot
- (b) load pads
- (c) coil springs
- (d) both a & b

267. WDM3A loco super structure load is carried by

- (a) centre pivot
- (b) side bearers

- (c) coil springs
- (d) both a & b

268. In engine crank case, if positive pressure increases more than its limit _____ gets operated

- (a) LWS
- (b) OSTA
- (c) Explosion door
- (d) PCS

269. If OSTA trips, engine will come to

- (a) Idle
- (b) Shut down
- (c) 2nd notch RPM
- (d) none

270. Compressor efficiency test is conducted by using _____ mm test orifice

- (a) 5
- (b) 7.5
- (c) 8
- (d) 10

271. In WDM3A fuel oil primary filter is located in

- (a) Compressor room
- (b) Engine room
- (c) Radiator room
- (d) under truck

272. Working of compressor lube oil pump is indicated by

- (a) Breather valve
- (b) Spy glass
- (c) Projection of brass spindle
- (d) Sight glass

273. Compressor crank case vacuum is maintained by

- (a) Breather valve
- (b) spy glass
- (c) Brass spindle unit
- (d) CCEM

274. Jumper pipe connected with

- (a) Fuel pump & fuel oil gallery
- (b) Cylinder head & water return pipe
- (c) Water header & cylinder head
- (d) Fuel pump & fuel oil sub header

275. Choose the correct location of water pump in ALCO

- (a) Loco left side free end

- (b) Loco right side free end
- (c) Engine left side compressor room
- (d) Engine left side free end

276. Bogie structure of WDM3A

- (a) Cast steel
- (b) Fabricated
- (c) both
- (d) none

277. In ALCO Locos Fuel oil crossover flexible pipe is located in

- (a) Radiator room
- (b) Nose compartment
- (c) Power takeoff end
- (d) Free end

278. "D" solenoid in the Governor is also called _____

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

279. One of the following is the equipment in Nose compartment

- (a) MR1
- (b) MR2
- (c) Control air pressure reservoir
- (d) All the above

280. In WDG3A locomotives 3/4" coc (BP coc) is located in/at

- (a) Nose compartment
- (b) Driver cab
- (c) Short hood control stand
- (d) None of the above

281. During engine starting if engine is cranking, Firing, Over speeding, OSTA Tripping and Engine shutting down the reason may be

- (a) Main Generator failure
- (b) Taco Generator failure
- (c) Exciter Generator failure
- (d) Auxiliary Generator failure

282. What should be checked if engine shutdown with over speed?

- (a) OSTA
- (b) SAR
- (c) Governor Am phenol plug
- (d) Fuel pump motor

283. Which item is used to reset AFL?

- (a) SW1 & SW2
- (b) SP1 & SP2
- (c) MCB1 & MCB2
- (d) MFPB1 & MFPB2

284. Weight transfer of WDG3A

- (a) Side load pads -100%
- (b) C.P- 60%, S .B 40 %
- (c) Side load pads -80%
- (b) C.P- 60%, S .B 80 %

285. Improper control air pressure leads to

- (a) Power Contactors fluttering
- (b) Flash over
- (c) Power Ground
- (d) All the above

286. By applying A-9 formation brakes are not applying-Reason might be_____

- (a) A-9 COC in working control stand is in closed condition
- (b) Bogie COCs are in closed condition
- (c) Train running at excess speed
- (d) Last vehicle rear BP angle cock is in open condition

287. On run if Air Flow Indicator overshoots with jerk indicates_____

- (a) Air brake failure
- (b) Loco failure
- (c) Air flow indicator defective
- (d) Train Parting

288. Sensitivity of DV is

- (a) 0.6 kg/cm² in 6secs
- (b) 0.3 kg/cm² in 60secs
- (c) 0.6 kg/cm² in 60secs
- (d) 0.5 kg/cm² in 60secs

289. Insensitivity of DV is

- (a) 0.6 kg/cm² in 6secs
- (b) 0.3 kg/cm² in 60secs
- (c) 0.6 kg/cm² in 60secs
- (d) 0.5 kg/cm² in 60secs

290. In Alco locomotive Battery knife switch is located in _____

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

291. After detaching Loco from formation which safety aspect should be check before working LE
- (a) Continuity test
 - (b) Traction test
 - (c) Loco Brake power test
 - (d) Leakage test
292. If an Air Brake train stopped on a gradient of 1/400 & above due to any reason, which brakes should be applied
- (a) SA 9 only
 - (b) A9 only
 - (c) SA 9 & A 9
 - (d) Hand brake
293. Side load pads are provided in this type of under truck
- (a) Tri mount bogie
 - (b) Fabricated bogie
 - (c) HTSC bogie
 - (d) both b and c
294. Loco should not be moved if water level above rail is
- (a) 4 inches
 - (b) 3 inches
 - (c) 1 inch
 - (d) 2 inches
295. In AC-DC locomotives engine is cranked by
- (a) Main Generator
 - (b) Auxiliary Generator
 - (c) Exciter Generator
 - (d) Auxiliary & Exciter Generator
296. If radiator fan is not working during continuous hot engine alarm switch ON
- (a) ERF
 - (b) LWS
 - (c) DMR
 - (d) TR
297. Hot engine alarm (HEA) will come at----°C in WDG3A locos
- (a) 60
 - (b) 70
 - (c) 90
 - (d) 80
298. During one of the following occasions Hot engine alarm indication will get
- (a) Continuous 8th notch working
 - (b) Excess load

- (c) Water pump not working
- (d) Full water in expansion tank

299. Will be switched on automatically in loco, during accidents

- (a) Head light
- (b) Auto flasher light
- (c) Marker light
- (d) Doom light

300. 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

Answers:

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

B. HHP Locomotives

1. 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
2. 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
3. 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
4. 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
5. 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
6. 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
7. In WDP4/WDG4 loco while conducting BP leakage test L/T switch should be kept in
 - (a) Lead
 - (b) Trail
 - (c) Helper
 - (d) Test
8. In WDP4/WDG4 loco while conducting air brake self test in working control stand
 - (a) Auto Brake handle should be kept in RUN
 - (b) Direct Brake should be kept in Full Application
 - (c) Both a and b
 - (d) LT switch in Trail

9. In WDP4/WDG4 loco while conducting BP leakage test L/T switch should be kept in
(a) Lead position
(b) Trail position
(c) Test position
(d) Helper
10. If FOP is dropping due to filter choked
(a) By pass secondary filter
(b) By pass primary filter
(c) Both a & B
(d) Dummy FIP
11. Bogie configuration of WDG4 Locomotive is
(a) CO-CO
(b) Bo1 Bo 1
(c) BO-BO
(d) BU-BU
12. Axle Load of WDG4 Locomotive is
(a) 20.5 T
(b) 22.5T
(c) 25T
(d) 19.5T
13. Axle Load of WDP4 Locomotive is
(a) 20.5 T
(b) 22.5T
(c) 25T
(d) 19.5T
14. In WDG4 loco Hand brake is applied on Wheel Nos. _____
(a) L4,L5
(b) L2,R2
(c) R4,R5
(d) R2,R3
15. Primary stage suspension in WDG4 is accomplished by _____
(a) Shock absorber
(b) helical coil spring
(c) Damper
(d) Load pads
16. Secondary stage suspension is accomplished by _____
(a) Load pads
(b) Damper
(c) rubber compression springs
(d) helical coil spring
17. To avoid separation of the truck/bogie assembly from the locomotive in case of derailment and to provide a means of lifting the truck/bogie assembly along with the car body is accomplished by
(a) Hooks

- (b) Safety links
 - (c) Lateral shock absorber
 - (d) Springs
18. In WDG4 soft primary suspension is made up of ____ No of coil journal springs
- (a) 24
 - (b) 6
 - (c) 8
 - (d) 12
19. The un sprung weight of the locomotive car body is transferred directly to the truck/bogie frame through _____
- (a) Four Helical springs
 - (b) four rubber compression spring assemblies
 - (c) Four Shock absorber
 - (d) Four coil springs
20. Traction Motor gear ratio for GT46MAC is
- (a) 17:77
 - (b) 18:90
 - (c) 17:90
 - (d) 16:90
21. Reduction in BP pressure causes ____
- (a) Brakes release
 - (b) Brakes slow release
 - (c) Brakes application
 - (d) MR pressure increasing
22. " _____ is the main power supply of CCB for the CCB system."
- (a) DCU
 - (b) VCU
 - (c) PCU
 - (d) DVR
23. In WDG4 loco max. Brake cylinder pressure is ____Kg/Cm2 during backup system
- (a) 3.8
 - (b) 3.2
 - (c) 2.2
 - (d) 5
24. 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
25. EPA 1 is a printed circuit board(PCB) Controls
- (a) Brake Cylinder
 - (b) BP pressure

- (c) Direct brake controls
 - (d) Auto brake application(EQ Reservoir)
26. EPA 2 is a printed circuit board(PCB) Controls
- (a) Brake Cylinder
 - (b) BP pressure
 - (c) EQ. Reservoir
 - (d) MR pressure
27. EPA 3 is a printed circuit board(PCB) Controls
- (a) Brake Cylinder
 - (b) BP pressure
 - (c) Direct brake controls
 - (d) MR pressure
28. MRPT-Main Reservoir Pressure Transducer reads pressure ____ between
- (a) MR1&MR2
 - (b) MR1 pressure
 - (c) MR2 pressure
 - (d) FP pressure
29. The air brake system, trips locomotive control system whenever _____ relay initiates a safety control or emergency air brake application.
- (a) PCR
 - (b) DMR
 - (c) WSR
 - (d) SR
30. The dead engine cutout cock, mounted on the air brake rack at the front of the locomotive, limits air braking effort on a locomotive being hauled dead in a train. When the cutout cock is set for a dead locomotive, the pressure regulator Charges
- (a) MR2 to 5kg/cm²
 - (b) Brake cylinder
 - (c) MR2 at 1.76kg/cm² from the brake pipe
 - (d) limiting brake cylinder pressure to 1.76kg/cm²
31. The EM2000 reads main reservoir air pressure from _____ transducer.
- (a) BPT
 - (b) BCT
 - (c) ERT
 - (d) MRPT
32. What is the code for Brake pipe control failure in self test ?
- (a) 8A
 - (b) 6A
 - (c) 10A
 - (d) 22A
33. What is the code for Brake pipe leakage failure in self test?
- (a) 6B
 - (b) 10B

- (c) 6F
 - (d) 6S
34. What is the function of KE valve in CCB system in WDPG4 locomotive?
- (a) Provides pneumatic back Up
 - (b) Creation of BP
 - (c) Creation of FP
 - (d) Emergency application
35. 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
36. After cooler cooled air in air inlet casing is also called as
- (a) Control Air Pressure
 - (b) Vacuum Control Air Pressure
 - (c) HS4 pressure
 - (d) Booster Air Pressure
37. The exhaust manifold is connected to _____ part of the TSC.
- (a) Gas Inlet Casing
 - (b) Intermediate Casing
 - (c) Turbine Casing
 - (d) Blower Casing
38. Where the booster air pressure stored in Two stroke engine?
- (a) Air Box
 - (b) Manifold
 - (c) Tank
 - (d) MR
39. De-Energizing of MV-CC means
- (a) Unloading/unloading of compressor
 - (b) Unloading of compressor
 - (c) Loading of compressor
 - (d) Tripping of Micro Air breaker
40. Loading and unloading of compressor is controlled by _____ in WDG4/P4
- (a) MVCC
 - (b) EPG
 - (c) RGCP
 - (d) None of the above
41. MR1 & MR2 are equipped bottom mounted automatic drain blow down valve. These are used to remove condensate from the main reservoirs. The valves are normally air actuated, and gets operated each time the _____
- (a) The compressor is unloading
 - (b) When penalty brake applied

- (c) The compressor is loading
 - (d) Micro Air breaker trips
42. Capacity of Lube oil system of WDP4 class Locomotive is _____ liters
- (a) 1457
 - (b) 900
 - (c) 1050
 - (d) 1150
43. 8th notch speed of WDP4 Engine _____ RPM
- (a) 1050
 - (b) 1000
 - (c) 954
 - (d) 915
44. Chemical added in loco coolant water -----
- (a) Indion 1345
 - (b) Indion 1244
 - (c) Indion 1245
 - (d) HP power cool
45. Low idle RPM of WDP4 engine is _____
- (a) 210
 - (b) 200
 - (c) 220
 - (d) 215
46. Lube Oil capacity of Compressor in WDP4 is _____ liters
- (a) 9
 - (b) 8
 - (c) 10
 - (d) 12
47. HP of WDP4 Loco motive is _____ HP
- (a) 4500
 - (b) 3900
 - (c) 3950
 - (d) 3939
48. Normal idle RPM of WDP4 Engine is _____
- (a) 290
 - (b) 269
 - (c) 250
 - (d) 296
49. Type of Water Pump in WDP4 _____
- (a) AC motor pump
 - (b) Air driven pump
 - (c) Centrifugal Pump
 - (d) Gear pump

50. WDP4 OSTA tripping rpm is:
- (a) 1155 ± 20
 - (b) 1125 ± 20
 - (c) 1045 ± 20
 - (d) 1100 ± 20
51. What is the minimum clearance required for wheel to brake block during release
- (a) 10mm
 - (b) 8mm
 - (c) 6mm
 - (d) 4mm
52. "D" solenoid in the Governor is also called _____
- (a) Shutdown solenoid
 - (b) Cranking solenoid
 - (c) Tripping solenoid
 - (d) Safety solenoid
53. How Crank case vacuum is maintained in WDG4/WDP4 engines(EMD) ?
- (a) Blower
 - (b) Crank case exhauster
 - (c) Eductor
 - (d) No vacuum creation
54. Fuel oil primary filter is located at _____
- (a) Generator Room
 - (b) Engine room
 - (c) Radiator Room
 - (d) Equipment rack
55. If the pressure across the primary filter element exceeds ____, a bypass valve begins to open, bypassing the primary fuel filter.
- (a) 1.6kg/cm²
 - (b) 5.3kg/cm²
 - (c) 4.8kg/cm²
 - (d) 2.1kg/cm²
56. If white smoke is emitting from exhaust chimney, what could be the reason?
- (a) Water mixed with fuel oil
 - (b) Governor oil mixed with fuel oil
 - (c) Lube oil mixed with fuel oil
 - (d) None of these
57. What is the Fuel oil tank capacity in WDP4D locomotive in litres.
- (a) 6000
 - (b) 5000
 - (c) 3000
 - (d) 5500
58. WDG4 Engine idle RPM
- (a) 469

- (b) 369
- (c) 269
- (d) 360

59. What is the maximum permissible speed of (designed for) WDG4 locomotives

- (a) 150 kmph
- (b) 105 kmph
- (c) 100 kmph
- (d) 75 kmph

60. How many Lube oil pumps available in EMD engine?

- (a) 5
- (b) 7
- (c) 9
- (d) 4

61. When fuel oil pressure at the spin-on filters input rises _____kg/cm², the spin-on filters bypass valve opens fully and fuel bypasses the engine and return to fuel tank.

- (a) 5.0kg/cm²
- (b) 4.2
- (c) 4.8kg/cm²
- (d) 3.8kg/cm²

62. In HHP Locos lube oil filter drum is located at _____

- (a) Generator Room
- (b) Equipment rack
- (c) Engine room
- (d) Radiator Room

63. LOPS setting of WDG4 loco in 8th Notch is

- (a) 25-29 psi
- (b) 8-12 psi
- (c) 12-20 PSI
- (d) 20-30PSI

64. LOPS setting of WDG4 loco in idle is

- (a) 10-12 PSI
- (b) 8-12 psi
- (c) 12-20 PSI
- (d) 20-30PSI

65. Pre lubrication is required if an engine that has been shut down for more than--- hours

- (a) 48
- (b) 24
- (c) 12
- (d) 8

66. 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
67. 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
68. ____ Number of brake blocks are provided on WDG4
- (a) 16
 - (b) 12
 - (c) 32
 - (d) 22
69. Lube oil dip stick gauge capacity in WDG4 locos is ____ liters.
- (a) 400
 - (b) 550
 - (c) 625
 - (d) 700
70. MR Cooling coils in WDG4 is located at
- (a) Under truck
 - (b) Engine block
 - (c) Radiator room
 - (d) Compressor room
71. MR safety valve is set at ____ Kg/Cm² pressure.
- (a) 8
 - (b) 9
 - (c) 10.5
 - (d) 9.5
72. The compressed air enters to MR1 tank through
- (a) MR Safety valve
 - (b) MR2
 - (c) Cooling Coil
 - (d) 3 / 4" cutout cock
73. Manual sander will be working when the unit speed is up to
- (a) 30.6kmph
 - (b) 19.5kmph
 - (c) 30kmph
 - (d) 25kmph
74. Manual Sanding is cutout when the locomotive is operating in power/wheel creep mode, and moving at speeds above
- (a) 30kmph
 - (b) 10kmph

- (c) 19.5 km/h
 - (d) 15kmph
75. A pressure cap, which is located on the water tank filler pipe, opens at approximately.
- (a) 25 PSI
 - (b) 15 PSI
 - (c) 20 PSI
 - (d) 70 PSI
76. How many water pumps available in EMD locomotive engine?
- (a) 1
 - (b) 4
 - (c) 3
 - (d) 2
77. If the coolant temperature reaches ____degree C, the locomotive will go to throttle six limit.
- (a) 95
 - (b) 92
 - (c) 85
 - (d) 100
78. EPD is Located at _____
- (a) Engine Accessories Room
 - (b) Engine room
 - (c) Radiator Room
 - (d) Equipment rake
79. 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
80. Water leaking continuously from water telltale pipe
- (a) Dummy it and work further
 - (b) Fail the loco duly observing the water level
 - (c) Do fast pumping
 - (d) Work on lower notches
81. During one of the following occasions Hot engine alarm indication will get
- (a) Continuous 8th notch working
 - (b) Excess load
 - (c) Water pump not working
 - (d) Full water in expansion tank
82. _____will be switched on automatically in loco, during accidents
- (a) Head light
 - (b) Auto flasher light
 - (c) Marker light
 - (d) Doom light

83. What is the color code for the BP pressure pipe?
- (a) Black
 - (b) Red
 - (c) Green
 - (d) Yellow
84. 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
85. The speed restriction that has to be observed by a LP when headlight of engine fails on BG is _____ kmph.
- (a) 50kmph
 - (b) 30kmph
 - (c) 40kmph
 - (d) MPS
86. 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
87. What should be the position of Lead /Trail switch in trailing loco of WDG4/WDP4 MU ?
- (a) Trail
 - (b) Lead
 - (c) Both
 - (d) Off
88. If hot oil detector operates _____
- (a) Engine comes to Idle
 - (b) Engine will Shut down
 - (c) Load meter zero
 - (d) No effect
89. Bail off is provided to release
- (a) Direct brake application
 - (b) Conjunctonal brake application
 - (c) Formation brakes
 - (d) Both B and C
90. Pinion to Bull gear ratio in WDP4 loco is _____
- (a) 18:74
 - (b) 18:65
 - (c) 17:77
 - (d) 17:90
91. Type of bogie available in WDG4 locomotive is
- (a) Tri mount

- (b) Fabricated
 - (c) HTSC
 - (d) None
92. Reduction in BP pressure causes _____
- (a) Brakes release
 - (b) Brakes slow release
 - (c) Brakes application
 - (d) MR pressure increasing
93. FP pressure is charged from
- (a) MR1
 - (b) MR2
 - (c) MR Equalizing
 - (d) None
94. MREq pressure is charged from
- (a) MR1
 - (b) MR2
 - (c) MR Equalizing
 - (d) None
95. Sanders are operated from
- (a) MR1
 - (b) MR2
 - (c) MR Equalizing
 - (d) None
96. Horns are operated from
- (a) MR1
 - (b) MR2
 - (c) MR Equalizing
 - (d) None
97. Wipers are operated from
- (a) MR1
 - (b) MR2
 - (c) MR Equalizing
 - (d) None
98. VCD acknowledgement is done by operating _____ once in every 60 seconds
- (a) A9 application
 - (b) operation of horns
 - (c) Increase or decrease of Throttle
 - (d) any of the above
99. Fuel tank capacity in WDG4 locomotive
- (a) 4000
 - (b) 5000
 - (c) 6000
 - (d) 7000

100. Type of diesel engine fitted WDG4 locomotive
- (a) Alco-251
 - (b) GT46PAC
 - (c) 710G3B
 - (d) GT46MAC
101. In WDG4 locomotive compressor is cooled by
- (a) Air
 - (b) Water
 - (c) Oil
 - (d) Nature
102. Number of positions of Auto brake in WDG4 locomotive
- (a) 2
 - (b) 4
 - (c) 5
 - (d) 3
103. In WDG4 locomotive hot oil detector is set at _____ °C
- (a) 100
 - (b) 126
 - (c) 150
 - (d) 180
104. Blended brake is available in _____ locomotive
- (a) WDS6
 - (b) WDP4
 - (c) WDG3A
 - (d) WDM3A
105. Lube oil sump capacity in WDG4 locomotive (in liters)
- (a) 1000
 - (b) 1100
 - (c) 910
 - (d) 1457
106. Full RPM of WDG4 locomotive
- (a) 1000
 - (b) 1050
 - (c) 954
 - (d) 1100
107. Idle RPM of WDG4 locomotive
- (a) 200
 - (b) 269
 - (c) 350
 - (d) 400
108. Low Idle RPM of WDG4 locomotive
- (a) 200
 - (b) 269

- (c) 350
 - (d) 400
109. Coolant water capacity in HHP locomotive
- (a) 1000
 - (b) 1100
 - (c) 1045
 - (d) 1145
110. Minimum continuous speed of WDG4 locomotive (in Kmph)
- (a) 21.5
 - (b) 22.5
 - (c) 20.5
 - (d) 23.5
111. Type of bogie in WDG4 locomotive
- (a) Single suspension
 - (b) Double suspension
 - (c) Triple suspension
 - (d) None
112. 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
113. In HHP locomotive cylinder head of engine is equipped with
- (a) Inlet & Exhaust Valves
 - (b) Only Inlet valves
 - (c) Only Exhaust valves
 - (d) None
114. In HHP locomotive Turbo charger is driven by
- (a) Exhaust Gas
 - (b) Gear Train
 - (c) Gear Train & Exhaust Gas
 - (d) None
115. Type of Air brake system in HHP locomotive
- (a) 28LAV1
 - (b) 28LV1
 - (c) CCB-Knorr
 - (d) None
116. In HHP locomotive, while conducting Air brake self test working control stand L/T switch should be kept in _____ position
- (a) Test
 - (b) HLPR
 - (c) Lead
 - (d) Trail

117. In WDG4 banker loco working control stand Auto brake handle should be kept in _____ position
- (a) Release
 - (b) Run
 - (c) FS
 - (d) Emergency
118. In WDG4 banker loco working control stand L/T switch should be kept in _____ position
- (a) Lead
 - (b) Trail
 - (c) HLPR
 - (d) Test
119. In HHP locomotive, oil visibility in bypass sight glass indicates
- (a) Primary filter choked
 - (b) Spin on filter choked
 - (c) Lube oil filter choked
 - (d) Lube oil strainer choked
120. In HHP loco, choking of fuel oil primary filter is indicated by
- (a) Filter condition gauge
 - (b) oil visibility in bypass sight glass
 - (c) Both A & B
 - (d) None
121. In WDG4 MU trailing loco, L/T switches in both control stand should be kept in
- (a) Test
 - (b) HLPR
 - (c) Lead
 - (d) Trail
122. Oil lubricated TM gear case is provided in
- (a) WDM2
 - (b) WDM3A
 - (c) WDG4
 - (d) WDG3A
123. Firing order of HHP locomotive
- (a) 1,8,9,16,3,6,11,14,4,5,12,13,2,7,10,15
 - (b) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
 - (c) 1,3,5,7,7,11,13,15,16,2,4,6,8,10,12,14
 - (d) None
124. Loco model of WDG4
- (a) GT46PAC
 - (b) GT46MAC
 - (c) Both A & B
 - (d) None

125. Loco model of WDP4
(a) GT46PAC
(b) GT46MAC
(c) Both A & B
(d) None
126. Number of cylinders of air compressor in WDG4 loco
(a) 2
(b) 3
(c) 4
(d) 6
127. Number of axles in WDP4 loco
(a) 04
(b) 06
(c) 08
(d) 10
128. Number of positions in Direct Brake of WDG4 loco
(a) 02
(b) 04
(c) 05
(d) 06
129. In WDG4 loco exhaust gas temperature reaches up to
(a) 538°C
(b) 438°C
(c) 338°C
(d) None
130. Number of radiator fans in HHP locomotive
(a) 02
(b) 01
(c) 03
(d) 04
131. Number of water pumps in HHP locomotive
(a) 02
(b) 01
(c) 03
(d) 04
132. Brake cylinder pressure in HHP locomotive (in Kg/cm²)
(a) 5.0
(b) 5.2
(c) 3.5
(d) 3.0
133. In HHP locomotive hand brake applies on wheels
(a) R4,R5
(b) R4,L4

- (c) R4,R6
 - (d) L4,L5
134. Diameter of new wheel in HHP locomotive (in mm)
- (a) 1090
 - (b) 1092
 - (c) 1080
 - (d) 1100
135. To check engine sump oil level, engine should be in ____ condition
- (a) Shut down
 - (b) Idle
 - (c) 4th Notch
 - (d) 2ndNothch
136. Number of after coolers in HHP locomotive
- (a) 02
 - (b) 01
 - (c) 03
 - (d) 04
137. Number of water expansion tanks in HHP locomotive
- (a) 02
 - (b) 01
 - (c) 03
 - (d) 04
138. In HHP loco, if LLOB is in tripped position during cranking engine will
- (a) Crank
 - (b) not Fire
 - (c) not Hold
 - (d) not Crank
139. In HHP loco engine starting switch is located in
- (a) ECP
 - (b) Engine room
 - (c) Control stand
 - (d) None
140. While on run if airflow indicator shoots up with jerk, it indicates
- (a) AFI defect
 - (b) parting taken place
 - (c) spring broken
 - (d) moisture in air
141. For quick charging of BP in WDG4 loco, _____ is used.
- (a) SP1/SP2
 - (b) SW1/SW2
 - (c) Foot pedal
 - (d) Auto Brake Release

142. _____ brake available only in WDP4.
- (a) Computer brake
 - (b) Vigilance brake
 - (c) Blended brake
 - (d) Tread brake
143. Blended Brake is a mixture of
- (a) Vacuum + Air
 - (b) Formation + Dynamic + Loco
 - (c) Formation + Loco
 - (d) Dynamic + Loco
144. 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
145. When wheel is floated speed is restricted to _____ kmph.
- (a) 25
 - (b) 30
 - (c) 35
 - (d) 40
146. Excess brake cylinder pressure can cause
- (a) Quick speed dropping
 - (b) Train brakes not required
 - (c) Wheel skidding
 - (d) Dynamic brake not necessary
147. In fuel oil system _____ type of filters are used
- (a) Socks type
 - (b) Foam type
 - (c) Mesh type
 - (d) Paper type
148. While EOT (Engine on Train) L/T switch should be in ____ position
- (a) Lead
 - (b) Trail
 - (c) Helper
 - (d) Test
149. Bail off ring is operated to nullify _____ brake
- (a) Loco
 - (b) Formation
 - (c) blended
 - (d) conjunction
150. In HHP loco Dead engine coc is located in
- (a) Control stand

- (b) under truck
 - (c) Brake bay rack
 - (d) compressor room
151. In HHP loco conjunction brake pressure is ____ kg/cm²
- (a) 3.5
 - (b) 1.8
 - (c) 5.0
 - (d) 5.2
152. In WDG4/WDP4 loco Radar magnet valve is located in
- (a) Nose compartment
 - (b) Compressor compartment
 - (c) Clean air compartment
 - (d) Radiator compartment
153. Swept volume of one cylinder in WDG4/WDP4 loco (in cu. Inch)
- (a) 657
 - (b) 710
 - (c) 954
 - (d) 1000
154. No. of engine cylinders in HHP loco
- (a) 8
 - (b) 12
 - (c) 16
 - (d) 20
155. In WDG4/WDP4 loco crank case vacuum is maintained by
- (a) CCEM
 - (b) Eductor
 - (c) Breather valve
 - (d) vacuum pump
156. In HHP loco MRPT is located in
- (a) Nose compartment
 - (b) ECC1
 - (c) ECC2
 - (d) ECC3
157. In HHP loco MVCC is located in
- (a) Nose compartment
 - (b) Compressor compartment
 - (c) Radiator room
 - (d) Under Truck
158. Main components of CCB 1.5 brake system are
- (a) BVC
 - (b) VCU & CRU
 - (c) PCU & KE valve
 - (d) all of the above

159. 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
160. BP continuity not getting to train from a working WDG4 loco
- (a) Additional BP coc closed in train end
 - (b) BP angle coc defective
 - (c) in train end no BP pressure in loco
 - (d) All the above
161. Type of lubrication system used in diesel loco
- (a) Splash lubrication
 - (b) Force feed lubrication
 - (c) Force feed & splash
 - (d) Capillary lubrication
162. To check lube oil level in engine sump, engine should be in
- (a) Shut down
 - (b) 4th notch
 - (c) Idle
 - (d) 2nd notch
163. 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
164. To recover PCS, 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
165. MR pressure dropping on run due to
- (a) Air dryer defective
 - (b) Auto drain vale malfunctioning
 - (c) BC pipe damaged
 - (d) all the above
166. In WDG4/WDP4 locos Hand brake applies on wheels
- (a) R4, R5
 - (b) R4, L4
 - (c) R5, R6
 - (d) L4, L5
167. Type of bogie in WDG4 locomotive
- (a) BO-BO
 - (b) CO-CO

- (c) BO1-1BO
 - (d) fabricated
168. Location of lube oil cooler in HHP locomotive
- (a) Equipment Rack
 - (b) Radiator room
 - (c) Compressor room
 - (d) Engine room
169. Location of lube oil filter in HHP locomotive
- (a) Equipment Rack
 - (b) Radiator room
 - (c) Compressor room
 - (d) Engine room
170. Location of fuel oil primary filter in HHP locomotive
- (a) Equipment Rack
 - (b) Radiator room
 - (c) Compressor room
 - (d) Engine room
171. Location of water expansion tank in HHP locomotive
- (a) Equipment Rack
 - (b) Radiator room
 - (c) Compressor room
 - (d) Engine room
172. In CCB 1.5 fault code will be displayed in
- (a) VCU
 - (b) PCU
 - (c) CRU
 - (d) BVC
173. In HHP loco baggie type fiber glass filters are located in
- (a) Compressor compartment
 - (b) Radiator compartment
 - (c) Clean air compartment
 - (d) Equipment rack
174. In HHP loco, dust bin blower motor is located in
- (a) Compressor compartment
 - (b) Radiator compartment
 - (c) Clean air compartment
 - (d) Equipment rack
175. To reset VCD Reverser should be in ____ position
- (a) Neutral
 - (b) Forward
 - (c) Reverse
 - (d) b or c

176. Purpose of APU is to save
- (a) Fuel
 - (b) Lube oil
 - (c) crew
 - (d) all of the above
177. 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
178. In WDP4/WDG4 loco before conducting air brake self test
- (a) Recycle MAB
 - (b) Recycle TCC1 and TCC2
 - (c) Recycle Air dryer breaker
 - (d) Both a & b
179. 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
180. In WDP4/WDG4 loco load meter will not respond if
- (a) GFB trips
 - (b) AGFB trips
 - (c) Both a & b
 - (d) MAB trips
181. 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
182. In WDP4/WDG4 loco while conducting BP leakage test. L/T switch should be kept in
- (a) Lead
 - (b) Trail
 - (c) Helper
 - (d) Test
183. If FOP is dropping due to filter choked
- (a) By pass secondary Filter
 - (b) By pass primary filter
 - (c) Both a & b
 - (d) Dummy FIP
184. ____ is the main power supply of CCB for the CCB system.
- (a) DCU
 - (b) VCU

- (c) PCU
 - (d) DVR
185. Brake cylinder pressure maximum is ____Kg/Cm2 during backup system
- (a) 3.8
 - (b) 3.2
 - (c) 2.2
 - (d) 5
186. CCB fault code for Brake Pipe Leakage Failure _____
- (a) 6A
 - (b) 6C
 - (c) 6B
 - (d) 6D
187. 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
188. MRPT-main reservoir pressure transducer reads pressure_____
- (a) Between MR1&MR2
 - (b) MR1 pressure
 - (c) MR2 pressure
 - (d) FP pressure
189. The air brake system, trips locomotive control system whenever _____relay initiates a safety control or emergency air brake application.
- (a) PCR
 - (b) DMR
 - (c) WSR
 - (d) SR
190. The EM2000 reads main reservoir air pressure from _____ transducer.
- (a) BPT
 - (b) BCT
 - (c) ERT
 - (d) MRPT
191. What is the code for Brake pipe control failure in self test ?
- (a) 8A
 - (b) 6A
 - (c) 10A
 - (d) 22A
192. What is the code for Brake pipe leakage failure in self test?
- (a) 6B
 - (b) 10B

- (c) 6F
- (d) 6S

193. What is the function of KE valve in CCB system in WDPG4 Locomotive ?

- (a) provides pneumatic back Up
- (b) Creation of BP
- (c) Creation of FP
- (d) Emergency application

194. Where the booster air pressure stored in Two stroke engine?

- (a) In air box
- (b) manifold
- (c) tank
- (d) MR

195. De-energising of MVCC means

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

196. Loading and unloading of compressor is controlled by _____ in WDG4/P4

- (a) MVCC
- (b) EPG
- (c) RGCP
- (d) None of the above

197. After cranking, allow a minimum of _____ minutes for starter motor cooling before attempting another engine start.

- (a) 20
- (b) 10
- (c) 2
- (d) 5

198. Do not crank engine for more than _____ with starting motors in HHP.

- (a) 30seconds
- (b) 1minutes
- (c) 10seconds
- (d) 20 seconds

199. Capacity of Lube oil system of WDP4 class Locomotive is _____ liters

- (a) 1457
- (b) 900
- (c) 1050
- (d) 1150

200. HP of WDP4 Loco motive is _____ HP

- (a) 4500
- (b) 3900
- (c) 3950
- (d) 3939

201. Type of Water Pump in WDP4 -----:
- (a) AC motor pump
 - (b) Air driven pump
 - (c) Centrifugal Pump
 - (d) Gear pump
202. WDP4 OSTA tripping rpm is:
- (a) (1155 ± 20)
 - (b) (1125 ± 20)
 - (c) (1045 ± 20)
 - (d) (1100 ± 20)
203. Tractive effort is transferred from TM to wheel is through _____
- (a) Load pads
 - (b) Side bearers
 - (c) coil springs
 - (d) Traction rods
204. LOPS setting of WDG4 loco in 8th Notch is
- (a) 25-29 PSI
 - (b) 8-12 PSI
 - (c) 12-20 PSI
 - (d) 20-30PSI
205. LOPS setting of WDG4 loco in idle is
- (a) 10-12 PSI
 - (b) 8-12 PSI
 - (c) 12-20 PSI
 - (d) 20-30 PSI
206. 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
207. WDG4D is specially designed for
- (a) Goods service
 - (b) Passenger service
 - (c) Mixed service
 - (d) None
208. No. Of teeth in HHP loco crank shaft
- (a) 58
 - (b) 64
 - (c) 113
 - (d) 79
209. WDG4 loco is a
- (a) Single cab loco
 - (b) Dual cab loco

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

210. In WDG4 left cam gear is driven by

- (a) right cam gear
- (b) No.1 Idler gear
- (c) No. 2 Idler gear
- (d) Crank shaft gear

211. No. of cylinders in HHP loco engine

- (a) 8
- (b) 12
- (c) 16
- (d) 20

212. Torsional damper is fitted on

- (a) Front end of engine
- (b) Rear end of engine
- (c) Front & Rear end of engine
- (d) None of the above

213. Do not pour ____ water in HHP loco

- (a) DM
- (b) Raw
- (c) Distilled
- (d) All of the above

214. TRD timing of 710G3B TSC is

- (a) Minimum 30 sec
- (b) Minimum 50 sec
- (c) Minimum 60 sec
- (d) Minimum 180 sec

215. Modified water pump has

- (a) Taper bearing
- (b) Ball bearing
- (c) Both taper & ball bearing
- (d) None

216. No. of rollers in clutch assembly

- (a) 8
- (b) 12
- (c) 16
- (d) 20

217. During setting of TDC pointer, which power assembly is kept at BDC

- (a) No. 1
- (b) No. 16
- (c) No. 8
- (d) No. 9

218. In HHP loco exhaust manifolds have ____ no. of chambers
- (a) 4
 - (b) 7
 - (c) 8
 - (d) 5
219. Low viscosity indicates
- (a) Mixing of fuel oil in lube oil
 - (b) Mixing of water in lube oil
 - (c) Mixing of carbon particles in lube oil
 - (d) None
220. In HHP loco bail off ring is provided on
- (a) Auto brake handle
 - (b) Driver back up valve
 - (c) Direct brake handle
 - (d) None
221. Accessory drive coupling retaining bolt is torque at ____ ft-lbs
- (a) 450
 - (b) 650
 - (c) 250
 - (d) 750
222. In HHP loco exhaust valve opens at
- (a) 23° after TDC
 - (b) 109° after TDC
 - (c) 180° after TDC
 - (d) 43° before BDC
223. 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
224. Length of WDG4D locomotive is ____ meters
- (a) 22.98
 - (b) 21.54
 - (c) 21.7
 - (d) 19.5
225. After changing power assembly which of the following operation is not performed
- (a) Injector timing
 - (b) 'Pee' pipe alignment
 - (c) Lead wire test
 - (d) None of the above
226. In HHP loco mainly which governor is fitted
- (a) Woodward governor
 - (b) MCBG

- (c) EH governor
- (d) None

227. HHP locomotive has a

- (a) 2 stroke engine
- (b) 4 stroke engine
- (c) Multi stroke engine
- (d) None of the above

228. In HHP loco TSC is fitted in the

- (a) Front end of the engine
- (b) Rear end of the engine
- (c) Front or rear end of the engine
- (d) None

229. During EPD testing at Idle engine normally shutdown in ___ sec

- (a) 120
- (b) 40
- (c) 60
- (d) 30

230. No. of radiators fitted in WDP4D loco is

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

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

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

232. During injector rack setting governor rack should be kept at

- (a) 1.00"
- (b) 1.02"
- (c) 1.96"
- (d) 0.62"

233. In HHP loco power assembly consists of

- (a) Cylinder liner
- (b) Cylinder Head
- (c) Piston, ring, carrier & connecting rod assembly
- (d) all of the above

234. Liner of HP loco is made of

- (a) Cast iron with brazed outer sleeves
- (b) Cast iron alloy with tin plating
- (c) Stainless steel with chrome plating
- (d) Cast iron

235. Type of CBC fitted in WDG4D loco is
(a) E-type
(b) F-type
(c) H-type
(d) None of the above
236. Which of the following crank case oils are approved for application in HHP loco engines
(a) Servo RR 520 MG of M/s IOC
(b) MAK RR517 M of M/s BPC
(c) HP RR 817 M of M/s HPC
(d) All of the above
237. Scavenging pump is a
(a) Reciprocating pump
(b) Centrifugal pump
(c) Positive displacement helical gear type pump
(d) None of the above
238. Number of piston rings in HHP engine piston
(a) 2
(b) 4
(c) 5
(d) 6
239. Black light test is related to
(a) Power assembly
(b) Fuel system
(c) Turbo super charger
(d) Lube oil system
240. No. of teeth in starter motor pinion is
(a) 10
(b) 15
(c) 11
(d) None
241. 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
242. Backlash to be maintained between ring gear and starter motor pinion
(a) 0.008"-0.016"
(b) 0.007"-0.025"
(c) 0.015"-0.040"
(d) 0.020"-0.030"
243. Compressor of HHP loco is
(a) Mechanical driven

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

244. compressor efficiency test is conducted with ____ mm choke

- (a) 7.5
- (b) 7.14
- (c) 7.6
- (d) 8.2

245. In HHP loco inlet port closes at

- (a) 43.5° before BDC
- (b) 43.5° after BDC
- (c) 107.5° after TDC
- (d) 67° after BDC

246. In HHP loco water pressure cap is set at ____ psi

- (a) 7
- (b) 12
- (c) 15
- (d) 20

247. For CCB system air supply is received from

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

248. 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

249. Fuel oil primary filter condition gauge having

- (a) Green zone
- (b) Yellow zone
- (c) Red zone
- (d) all of the above

250. DBI of testing of MR tank of HHP loco is done in interval of

- (a) 24 months
- (b) 36 months
- (c) 48 months
- (d) six years

251. In HHP loco TSC spin on filter is fitted on

- (a) Right side, front end of engine
- (b) Right side, rear end of engine
- (c) Left side, front end of engine
- (d) None

252. In HHP loco compressor oil level to be checked at
- (a) Engine run & Idle condition
 - (b) Engine shutdown condition
 - (c) Engine run & 8th notch condition
 - (d) Any of the above
253. In HHP loco lube oil level to be checked at
- (a) Engine run & Idle condition
 - (b) Engine shutdown condition
 - (c) Engine run & 8th notch condition
 - (d) Any of the above
254. In HHP loco epicyclic gear train is found in
- (a) Turbo supercharger
 - (b) Accessory drive gear train
 - (c) Cam shaft drive gear train
 - (d) None of the above
255. WDP4D loco fitted with _____ rotating engine
- (a) Left hand
 - (b) Right hand
 - (c) Both 'A' & 'B'
 - (d) None
256. Injector hand control lever is also known as
- (a) Lay shaft
 - (b) Jacking shaft
 - (c) power shaft
 - (d) None
257. Number of Main bearings in HHP locomotive
- (a) 8
 - (b) 9
 - (c) 10
 - (d) 11
258. Up to ____ notch HHP loco can be raised without load
- (a) 4th
 - (b) 5th
 - (c) 6th
 - (d) 7th
259. MR efficiency test is related to
- (a) Power assembly
 - (b) MR tank
 - (c) Turbo super charger
 - (d) Compressor
260. Marking range on governor terminal shaft scale is
- (a) 1.96" – 0.62"
 - (b) 1.00" – 0.62"

- (c) 1.02" – 1.96"
- (d) 1.02" – 0.62"

261. No. 9 to 16 power assemblies are

- (a) Fork type
- (b) Blade type
- (c) Fork & Blade mixed
- (d) None of the above

262. No. 1 to 8 power assemblies are

- (a) Fork type
- (b) Blade type
- (c) Fork & Blade mixed
- (d) None of the above

263. 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

264. No. of compression rings fitted in HHP engine piston

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

265. In HHP loco pinion end TH bearing is lubricated by

- (a) RR 460
- (b) Grease
- (c) Cardium compound
- (d) None

266. In HHP loco both side cam gear rotate

- (a) in same direction
- (b) in opposite direction
- (c) in same as crank shaft rotation
- (d) None

267. 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

268. No. of critical main bearing in HHP loco

- (a) 2
- (b) 4
- (c) 5
- (d) 6

269. In HHP loco water drain cock is located in
- (a) Accessory room
 - (b) Under truck loco right
 - (c) Under truck loco left side
 - (d) Compressor room
270. HHP locomotive is a
- (a) Left hand drive loco
 - (b) right hand drive loco
 - (c) Both hand drive loco
 - (d) None of the above
271. ECC-4 is found in
- (a) WDP4
 - (b) WDG4
 - (c) WDP4B
 - (d) WDG4D
272. In HHP loco torque value of Alternator mounting bolt is
- (a) 295 ft-lbs
 - (b) 650 ft-lbs
 - (c) 1400 ft-lbs
 - (d) 2400 ft-lbs
273. Height of rail guard in HHP loco is
- (a) 4 ½ "
 - (b) 5 ½ "
 - (c) 6 ½ "
 - (d) None
274. Number of air inlet ports in a power assembly
- (a) 8
 - (b) 12
 - (c) 16
 - (d) 18
275. Compressor of HHP locomotive is a
- (a) Rotary compressor
 - (b) Reciprocating compressor
 - (c) Centrifugal compressor
 - (d) None of the above
276. OSTA operation of HP loco is checked in ____ schedule
- (a) 30 days & above
 - (b) 90 days & above
 - (c) 180 days & above
 - (d) Yearly & above
277. Purpose of Torsional damper in HHP locomotive is
- (a) To absorb crank shaft torsional vibration
 - (b) To absorb vibration of locomotive

- (c) To absorb vibration of main alternator
- (d) None of the above

278. Number of teeth in Sun gear is

- (a) 37
- (b) 26
- (c) 58
- (d) 130

279. Number of lube oil bypass valves in HP loco lube oil system

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

280. What is the limit of crush height in HHP loco

- (a) 0.007" – 0.025
- (b) 0.008" – 0.017"
- (c) 0.016" – 0.039"
- (d) 0.006" – 0.018"

281. Height of WDP4 loco (over Horn) in meters

- (a) 4.22
- (b) 4.25
- (c) 4.20
- (d) None

282. Number of inlet valves fitted in HHP loco power assembly

- (a) 2
- (b) 4
- (c) 6
- (d) None

283. Compression ratio of HHP locomotive is

- (a) 12:1
- (b) 14:1
- (c) 12.5:1
- (d) 16:1

284. EPD operation of HHP locomotive is checked in ____ schedule

- (a) 30 days & above
- (b) 90 days & above
- (c) 180 days & above
- (d) Yearly & above

285. Number of Lube oil pumps in HHP loco

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

286. Blades of Dynamic brake grids fans are made of
(a) Iron
(b) Aluminium
(c) Steel
(d) None
287. Normal LR dropping permitted up to
(a) 0.75
(b) 0.85
(c) 0.95
(d) None
288. In HHP loco initial torque value of crab nut is ____ ft-lbs.
(a) 450
(b) 400
(c) 165
(d) 200
289. In HHP loco piston thrust washer minimum permissible thickness is
(a) 4.67 mm
(b) 4.44 mm
(c) 1.73 mm
(d) None
290. In HHP loco maximum percentage of total no. of radiator tubes make dummy is
(a) 2
(b) 4
(c) 5
(d) 1
291. In Spectrographic analysis of engine lube oil normal range of sodium (Na) is
(a) 0 – 75 ppm
(b) 0 – 50 ppm
(c) 0 – 30 ppm
(d) 0 – 20 ppm
292. Model of compressor in HHP locomotive is
(a) WLN
(b) WLG
(c) WBG
(d) WBO
293. Model of diesel engine fitted in HHP locomotive is
(a) 645 G3B
(b) 710 G3B
(c) 710 G3C
(d) None
294. In HHP loco Hand brake applies to
(a) R1 & R2
(b) R4 & R5

- (c) L1 & L2
- (d) L4 & L5

295. WLN model compressor has

- (a) 3 cylinders
- (b) 4 cylinders
- (c) 6 cylinders
- (d) None

296. TSC of HHP locomotive is cooled by

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

297. Number of Brake cylinders in HHP loco

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

298. Number of dowels in fork rod and basket assembly

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

299. Fork rod power assembly is located in which side of engine

- (a) Left
- (b) Right
- (c) Both side
- (d) None

300. Blade rod power assembly is located in which side of engine

- (a) Left
- (b) Right
- (c) Both side
- (d) None

301. Pick up time between one radiator fan to another

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

302. Which one is not required for injector rack setting

- (a) Concerned power assembly to be kept at TDC
- (b) Governor rack to be locked at 1"
- (c) Rack setting tool is required
- (d) Rotate injector rack adjusting lock nut clockwise direction to loose it

303. Type of water pump fitted in HHP locomotive
(a) Centrifugal type
(b) Reciprocating type
(c) Positive displacement type
(d) None
304. Oil separator in HHP loco is cleaned in ____ schedule
(a) 30 days & above
(b) 90 days & above
(c) 180 days & above
(d) Yearly & above
305. Number of oil control rings in HHP engine piston
(a) 1
(b) 2
(c) 3
(d) 4
306. Discharge capacity of FPM in HHP locomotive
(a) 5 GPM
(b) 7 GPM
(c) 10 GPM
(d) 12 GPM
307. Minimum engine cranking speed for starting
(a) 45 – 50 rpm
(b) 60 – 75 rpm
(c) 75 – 90 rpm
(d) 100 – 120 rpm
308. Maximum speed of WDP4 locomotive is ____ kmph
(a) 100
(b) 105
(c) 120
(d) 160
309. Value of backlash between water pump & Governor drive gear
(a) 0.007" – 0.025"
(b) 0.008" – 0.016"
(c) 0.010" – 0.025"
(d) 0.006" – 0.018"
310. Minimum engine lube oil viscosity (KV) of HHP locomotive
(a) 12.8 cst at 100°C
(b) 13.0 cst at 100°C
(c) 18.8 cst at 100°C
(d) None of the above
311. TRD is related to
(a) Lube oil cooler
(b) Radiator

- (c) Compressor
- (d) Turbo super charger

312. 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"

313. Top connecting rod bearing shell is changed after

- (a) 2 years
- (b) 3 years
- (c) 6 years
- (d) None

314. No. of 14" expansion joints in HHP loco

- (a) 1
- (b) 3
- (c) 4
- (d) None

315. In HHP loco thrust collars fitted in

- (a) No. 5 & 6 main bearing
- (b) No. 1 & 9 main bearing
- (c) No. 1 & 10 main bearing
- (d) None of the above

316. Turbine inlet scroll is

- (a) Welded assembly made from "chrome-moly" plate
- (b) Forged assembly made from "chrome-moly" plate
- (c) Welded assembly made from CRCS
- (d) None of the above

317. In HHP loco lube oil level to be checked at ____ temperature

- (a) 72°C
- (b) 52°C
- (c) 62°C
- (d) None

318. In HHP loco maximum fuel oil is injected at

- (a) 9.6° before TDC
- (b) 0.8° after TDC
- (c) 15.8° before TDC
- (d) 16.6° before TDC

319. How many EBT are fitted in HHP locomotive

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

320. In HHP locomotive compressor over haul on
- (a) 360 days schedule
 - (b) 2 yearly schedule
 - (c) 3 yearly schedule
 - (d) 6 yearly schedule
321. Fireman emergency brake handle is located at
- (a) Both control console/desk
 - (b) behind LP seat
 - (c) Behind ALP seat
 - (d) None of the above
322. Fuel tank of HHP locomotive is
- (a) Detachable
 - (b) Non-detachable
 - (c) Both detachable & non-detachable
 - (d) None
323. In HHP loco fuel injection ends at
- (a) 47° before BDC
 - (b) 0.8° after TDC
 - (c) 15.8° before TDC
 - (d) 16.6° before TDC
324. Height of cattle guard in HHP locomotive is
- (a) $4 \frac{1}{2}$ "
 - (b) $5 \frac{1}{2}$ "
 - (c) $6 \frac{1}{2}$ "
 - (d) None
325. Number of after coolers fitted in HHP locomotive
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
326. Delivery rate of soak back pump in HHP engine
- (a) 27 LPM
 - (b) 57 LPM
 - (c) 75 LPM
 - (d) None
327. Weight of WDG4D locomotive is
- (a) 126 T
 - (b) 123 T
 - (c) 121.2 T
 - (d) 130.2 T
328. ____ oil is filled in HHP loco compressor
- (a) RR 460
 - (b) SP 100

- (c) RR 606
- (d) SP 57

329. No. of teeth in No.1 Idler gear is

- (a) 58
- (b) 64
- (c) 69
- (d) 79

330. In HHP loco compressor is cooled by

- (a) Water
- (b) air
- (c) oil
- (d) None

331. Pre lubrication is related to

- (a) Power assembly
- (b) Fuel system
- (c) Turbo Supercharger
- (d) Lube oil system

332. Crush height is measured by

- (a) Vernier Calliper
- (b) Outside micrometer
- (c) Feeler gauge
- (d) Height gauge

333. In HHP locomotive specified limit of exhaust gas temperature is

- (a) 315°C - 400°C
- (b) 435°C - 535°C
- (c) 490°C - 590°C
- (d) None of the above

334. Torque value of exhaust manifold to expansion joint bolt is

- (a) 50 ft-lbs
- (b) 75 ft-lbs
- (c) 80 ft-lbs
- (d) 190 ft-lbs

335. In spectrographic analysis of engine lube oil, high range of Copper(Cu) indicates

- (a) Internal water leakage
- (b) inefficient air filtration
- (c) Cylinder liner water
- (d) bush & bearing wear

336. Kinematic viscosity of lube oil is checked at

- (a) 40° C temp
- (b) 100° C temp
- (c) 40° F temp
- (d) both a & b

337. Unit of kinematic viscosity is
(a) CST
(b) UST
(c) MST
(d) PPM
338. In HHP loco compressor lube oil pump is
(a) Belt driven
(b) Gear driven
(c) chain driven
(d) all of the above
339. Idle rpm of WDP4D locomotive is
(a) 269
(b) 904
(c) 954
(d) 1050
340. No. of marks in HHP loco compressor oil dipstick(modified) gauge
(a) 2
(b) 3
(c) 4
(d) None of the above
341. Shot peening process is done in piston ring to improve
(a) Fatigue strength
(b) Tensile strength
(c) Compressive strength
(d) None of the above
342. In Medha control system during pre-lubrication TLPM run for
(a) 120 sec
(b) 900 sec
(c) 2100 sec
(d) 1000 sec
343. Gear case oil capacity of WDP4D locomotive is
(a) 7.5 litres
(b) 8.5 litres
(c) 9.5 litres
(d) 9.8 litres
344. Gear case oil capacity of WDG4D locomotive is
(a) 7.5 litres
(b) 8.5 litres
(c) 9.5 litres
(d) 9.8 litres
345. In HHP loco value of cylinder head valve seat angle is
(a) $30^{\circ}00'$ - $30^{\circ}15'$
(b) $45^{\circ}00'$ - $45^{\circ}15'$

- (c) $60^{\circ}00' - 60^{\circ}15'$
- (d) None of the above

346. POP test is conducted to check the performance of

- (a) Injector
- (b) TSC
- (c) Lash adjuster
- (d) Air dryer

347. Water leakage from air box drain pipe indicates

- (a) Water inlet tube may be crack
- (b) Cylinder Head/liner may be crack
- (c) After cooler tube may be punctured
- (d) All of the above

348. 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

349. Minimum lube oil level of HHP loco compressor is

- (a) 5 litres
- (b) 6 litres
- (c) 8 litres
- (d) 9.8 litres

350. In HHP loco duration of suction period is

- (a) 87°
- (b) 113°
- (c) 16.6°
- (d) 138°

351. Air dryer is fitted

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

352. Final torque value of Crab nut is

- (a) 250 ft-lbs
- (b) 400 ft-lbs
- (c) 150 ft-lbs
- (d) 2400 ft-lbs

353. In HHP locomotive compressor air intake filter is changed during

- (a) 30 days & above schedule
- (b) 60 days & above schedule
- (c) 90 days & above schedule
- (d) 180 days & above schedule

354. Free air delivery of GD air compressor is ____ LPM
(a) 4000
(b) 5000
(c) 6000
(d) 9000
355. OSTA of HHP (4500 HP) locomotive is set at
(a) 1035 – 1050 rpm
(b) 1035 – 1075 rpm
(c) 1085 – 1100 rpm
(d) 1185 – 1220 rpm
356. OSTA of HHP (4000 HP) locomotive is set at
(a) 1035 – 1050 rpm
(b) 1035 – 1075 rpm
(c) 1085 – 1100 rpm
(d) 1185 – 1220 rpm
357. HHP locomotive brake block is made of
(a) Cast iron
(b) Fibre
(c) Composite material
(d) None of the above
358. In HHP locomotive pilot stud of liner is located at
(a) 5 o' clock position
(b) 6 o' clock position
(c) 12 o' clock position
(d) 13 o' clock position
359. Maximum speed of WDG4D locomotive (in kmph)
(a) 100
(b) 105
(c) 135
(d) 160
360. In HHP loco when OSTA is set, reset handle rest at
(a) 11 o' clock position
(b) 13 o' clock position
(c) 12 o' clock position
(d) None of the above
361. In HHP locomotive lube oil strainer is fitted on
(a) Right side, front end of the engine
(b) Right side, rear end of the engine
(c) Left side, front end of the engine
(d) Left side, rear end of the engine
362. In HHP loco bearing to crank pin maximum clearance is
(a) 0.010"
(b) 0.015"

- (c) 0.020"
- (d) 0.0205"

363. In HHP locomotive compression stroke end at

- (a) BDC
- (b) 43.5° after BDC
- (c) TDC
- (d) 67° after TDC

364. Torque the rocker arm adjusting screw lock nut approximately

- (a) 70-75 ft-lbs
- (b) 75-80 ft-lbs
- (c) 80-85 ft-lbs
- (d) 85-90 ft-lbs

365. POH of HHP locomotive is done after

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

366. From initial final torque value, crab nut rotates approximately

- (a) $120^\circ \pm 35^\circ$
- (b) $200^\circ \pm 35^\circ$
- (c) $250^\circ \pm 35^\circ$
- (d) $360^\circ \pm 35^\circ$

367. Fuel tank capacity of WDP4D locomotive is ____ litres

- (a) 5000
- (b) 6000
- (c) 6500
- (d) 5500

368. Function of compression ring

- (a) Pull the piston down when cylinder is not firing
- (b) Prevent the compressed air & gases from entering in to the crankcase
- (c) Prevent lube oil entering into air box & combustion chamber
- (d) All of the above

369. Maximum permissible limit of fuel oil dilution in HHP lube oil is

- (a) 2 %
- (b) 3 %
- (c) 5 %
- (d) 10%

370. In HHP loco following model Woodward governor is fitted

- (a) PGR
- (b) PGEV
- (c) PGR & PGEV
- (d) None of the above

371. Which of the following valve is not fitted in HHP locomotive compressed air system
- (a) Duplex check valve
 - (b) FT1 feed valve
 - (c) NRV
 - (d) None of the above
372. Fuel oil primary filter condition gauge needle in Green zone indicates fuel oil differential pressure is
- (a) 20 ± 2 PSI
 - (b) 25 ± 2 PSI
 - (c) 30 ± 2 PSI
 - (d) None of the above
373. Thrust washer is made of
- (a) Cast iron brazed on outer sleeves
 - (b) Cast iron alloy with tin plating
 - (c) Stainless steel with chrome plating
 - (d) Copper
374. In HHP locomotive type of torsional damper is
- (a) Spring pack type
 - (b) Gear type
 - (c) Viscous type
 - (d) Pendulum type
375. In HHP locomotive inlet port open at
- (a) 43.5° before BDC
 - (b) 107.5° after TDC
 - (c) 180° after TDC
 - (d) 67° after BDC
376. No. of teeth in HHP locomotive crank shaft gear is
- (a) 58
 - (b) 64
 - (c) 79
 - (d) 113
377. No. of exhaust valves in a power assembly
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 4
378. In HHP locomotive for quick charging of BP _____ is provided
- (a) BPSW
 - (b) SP1
 - (c) Bail off ring
 - (d) Release position of Auto brake handle
379. Maximum speed for clearing the block section with floating/lifting locked axle is
- (a) 10 kmph
 - (b) 15 kmph

- (c) 20 kmph
- (d) 25 kmph

380. Function of exhaust diffuser in TSC is

- (a) Eliminate the turbulence of exhaust gases
- (b) Eliminate the turbulence of compressed air
- (c) Prevent oil from migrating into exhaust section from the compressor bearing
- (d) None of the above

381. Capacity of governor oil of HHP locomotive

- (a) 2.25 litres
- (b) 3.79 litres
- (c) 4.5 litres
- (d) None

382. Full form of EBT is

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

383. Capacity of water tank of HHP locomotive is ____ litres

- (a) 275
- (b) 255
- (c) 625
- (d) 1045

384. Number of positions in L/T switch

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

385. Brake cylinder Piston stroke length of HHP locomotive is

- (a) 2" – 2.5"
- (b) 2" – 4.5"
- (c) 2" – 6.5"
- (d) None

386. In HHP loco duration of compression period is

- (a) 84°
- (b) 113°
- (c) 16.6°
- (d) 138°

Answers:

1 (d), 2 (d), 3 (a), 4 (a), 5 (b), 6 (c), 7 (d), 8 (c), 9 (c), 10 (b), 11 (a), 12 (a), 13 (d), 14 (c), 15 (b), 16 (c), 17 (b), 18 (d), 19 (b), 20 (c), 21 (c), 22 (b), 23 (a), 24 (a), 25 (d), 26 (a), 27 (c), 28 (b), 29 (a), 30 (c), 31 (d), 32 (b), 33 (a), 34 (a), 35 (c), 36 (d), 37 (a), 38 (a), 39 (c), 40 (a), 41 (a), 42 (a), 43 (c), 44 (d), 45 (b), 46 (c), 47 (a), 48 (b), 49 (c), 50 (c), 51 (b), 52 (a), 53 (c), 54 (d), 55 (d), 56 (a), 57 (b), 58 (c), 59 (b), 60 (d), 61 (a), 62 (b), 63 (a), 64 (b), 65 (a), 66 (c), 67 (b), 68 (b), 69 (c), 70 (c), 71 (c), 72 (c), 73 (b), 74 (c), 75 (c), 76 (d), 77 (a), 78 (a), 79 (a), 80 (b), 81 (c), 82 (b), 83 (c), 84 (b), 85 (c), 86 (a), 87 (a), 88 (b), 89 (b), 90 (c), 91 (c), 92 (c), 93 (a), 94 (a), 95 (a), 96 (a), 97 (a), 98 (d), 99 (c), 100 (c), 101 (b), 102 (c), 103 (b), 104 (b), 105 (d), 106 (c), 107 (b), 108 (a), 109 (c), 110 (b), 111 (b), 112 (a), 113 (c), 114 (c), 115 (c), 116 (c), 117 (c), 118 (c), 119 (b), 120 (a), 121 (d), 122 (c), 123 (a), 124 (b), 125 (a), 126 (b), 127 (b), 128 (a), 129 (a), 130 (a), 131 (a), 132 (b), 133 (a), 134 (b), 135 (b), 136 (a), 137 (b), 138 (d), 139 (a), 140 (b), 141 (d), 142 (c), 143 (b), 144 (a), 145 (b), 146 (c), 147 (d), 148 (d), 149 (d), 150 (c), 151 (b), 152 (c), 153 (b), 154 (c), 155 (b), 156 (d), 157 (b), 158 (d), 159 (d), 160 (d), 161 (b), 162 (c), 163 (b), 164 (d), 165 (d), 166 (a), 167 (b), 168 (a), 169 (a), 170 (a), 171 (a), 172 (c), 173 (c), 174 (c), 175 (d), 176 (a), 177 (d), 178 (a), 179 (b), 180 (c), 181 (c), 182 (d), 183 (b), 184 (b), 185 (a), 186 (c), 187 (a), 188 (b), 189 (a), 190 (d), 191 (b), 192 (a), 193 (a), 194 (a), 195 (c), 196 (a), 197 (c), 198 (d), 199 (a), 200 (a), 201 (c), 202 (c), 203 (d), 204 (a), 205 (b), 206 (c), 207 (a), 208 (d), 209 (a), 210 (c), 211 (c), 212 (a), 213 (b), 214 (b), 215 (b), 216 (c), 217 (a), 218 (a), 219 (a), 220 (c), 221 (b), 222 (b), 223 (a), 224 (a), 225 (d), 226 (a), 227 (a), 228 (b), 229 (c), 230 (b), 231 (b), 232 (a), 233 (d), 234 (a), 235 (a), 236 (d), 237 (c), 238 (d), 239 (b), 240 (c), 241 (a), 242 (c), 243 (a), 244 (b), 245 (b), 246 (a), 247 (b), 248 (c), 249 (d), 250 (c), 251 (b), 252 (a), 253 (a), 254 (a), 255 (a), 256 (a), 257 (c), 258 (a), 259 (d), 260 (a), 261 (a), 262 (b), 263 (a), 264 (d), 265 (a), 266 (b), 267 (a), 268 (b), 269 (a), 270 (a), 271 (d), 272 (c), 273 (a), 274 (d), 275 (b), 276 (b), 277 (a), 278 (a), 279 (b), 280 (b), 281 (a), 282 (d), 283 (d), 284 (a), 285 (d), 286 (b), 287 (b), 288 (b), 289 (b), 290 (a), 291 (c), 292 (a), 293 (b), 294 (b), 295 (a), 296 (c), 297 (c), 298 (d), 299 (a), 300 (b), 301 (b), 302 (a), 303 (a), 304 (b), 305 (b), 306 (b), 307 (a), 308 (d), 309 (b), 310 (b), 311 (d), 312 (c), 313 (b), 314 (b), 315 (a), 316 (a), 317 (a), 318 (a), 319 (a), 320 (a), 321 (a), 322 (a), 323 (b), 324 (c), 325 (b), 326 (b), 327 (d), 328 (b), 329 (b), 330 (a), 331 (d), 332 (c), 333 (a), 334 (c), 335 (d), 336 (d), 337 (a), 338 (b), 339 (a), 340 (b), 341 (a), 342 (b), 343 (b), 344 (a), 345 (a), 346 (a), 347 (d), 348 (d), 349 (b), 350 (a), 351 (b), 352 (d), 353 (d), 354 (c), 355 (c), 356 (a), 357 (c), 358 (a), 359 (b), 360 (a), 361 (a), 362 (a), 363 (c), 364 (c), 365 (d), 366 (b), 367 (a), 368 (b), 369 (c), 370 (b), 371 (a), 372 (a), 373 (d), 374 (b), 375 (a), 376 (c), 377 (d), 378 (d), 379 (d), 380 (a), 381 (a), 382 (a), 383 (c), 384 (c), 385 (c), 386 (b)

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
(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. Which type of bogie is used in WDG4G WABTEC locomotive?
(a) Trimount
(b) HTSC
(c) ATHS
(d) High Adhesion Fabricated
8. On which wheel numbers do hand brakes apply in WABTEC locomotive?
(a) 1, 5, 8, 12
(b) 2, 4, 6, 8
(c) 1, 3, 9, 11
(d) None of these

9. On which wheel numbers do parking brakes apply in the front bogie of WABTEC locomotive?
 - (a) 1, 5
 - (b) 2, 4
 - (c) 1, 3
 - (d) None of these
10. On which wheel numbers do parking brakes apply in the rear bogie of WABTEC locomotive?
 - (a) 11, 12
 - (b) 8, 12
 - (c) 9, 11
 - (d) None of these
11. What is the engine model of WDG4G WABTEC locomotive?
 - (a) WABTECVO-12
 - (b) WABTEC-251
 - (c) 710G3B
 - (d) None of the above
12. Which type of governor is used in WDG4G WABTEC locomotive?
 - (a) WABTEC Governor
 - (b) Woodward
 - (c) Hydraulic
 - (d) None of the above
13. Which type of fuel injection is used in WDG4G WABTEC locomotive?
 - (a) Electronic
 - (b) Mechanical
 - (c) Hydraulic
 - (d) None of the above
14. What is the danger mark of fuel in litres for WDG4G WABTEC locomotive?
 - (a) 1050
 - (b) 1500
 - (c) 1000
 - (d) None of the above
15. What is the danger mark of lube oil in the new type of dipstick for WDG4G WABTEC locomotive?
 - (a) Min
 - (b) Add
 - (c) Low
 - (d) None of the above
16. What is the wheel arrangement in WDG4G WABTEC locomotive?
 - (a) BO-BO
 - (b) BO-1-1-BO
 - (c) CO-CO
 - (d) None of the above

17. How are the sides of the locomotive demarcated in WDG4G WABTEC locomotive?
 - (a) A and B
 - (b) Right and Left
 - (c) ALP and LP
 - (d) None of the above
18. How many TBUs are there in WDG4G WABTEC locomotive?
 - (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
19. How many cylinders are there on the engine left side of WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) EIGHT
 - (c) FOUR
 - (d) None of the above
20. How many brake blocks are there on the loco left side of WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
21. How many centrifugal filters are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
22. How many brake application positions are there in EBV of WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) THREE
 - (c) TWO
 - (d) None of the above
23. What is the name of the brake system used in WDG4G WABTEC locomotive?
 - (a) CCB
 - (b) IRAB
 - (c) NYAB
 - (d) FB
24. How many PB manual releasing spindles are there in WDG4G WABTEC locomotive?
 - (a) SIX
 - (b) FOUR
 - (c) TWO
 - (d) None of the above

25. How many SANDER MVs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
26. How many SANDER MV COCs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
27. How many HORN MVs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
28. How many HORN COCs are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
29. How many sand boxes are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
30. What is the capacity of the fuel tank in litres in WDG4G WABTEC locomotive?
- (a) 8000
 - (b) 6750
 - (c) 6000
 - (d) None of the above
31. How many fuel tank drain cocks are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
32. What is the capacity of the crank case sump in litres in WDG4G WABTEC locomotive?
- (a) 1030
 - (b) 1249
 - (c) 950
 - (d) None of the above

33. What is the coolant capacity in litres in WDG4G WABTEC locomotive?
- (a) 1030
 - (b) 1249
 - (c) 45
 - (d) None of the above
34. What is the capacity of the toilet water tank in litres in WDG4G WABTEC locomotive?
- (a) 100
 - (b) 67
 - (c) 45
 - (d) None of the above
35. What is the capacity of compressor oil in litres in WDG4G WABTEC locomotive?
- (a) 45
 - (b) 21
 - (c) 26
 - (d) None of the above
36. What does the green mark below the red mark indicate for the compressor oil level in WDG4G WABTEC locomotive?
- (a) Danger
 - (b) Low
 - (c) Add
 - (d) Full
37. What does the red mark below the yellow mark indicate for the compressor oil level in WDG4G WABTEC locomotive?
- (a) Overfilled
 - (b) Low
 - (c) Add
 - (d) None of the above
38. What does the red mark above the green mark indicate for the compressor oil level in WDG4G WABTEC locomotive?
- (a) Overfilled
 - (b) Low
 - (c) Add
 - (d) None of the above
39. How many compressor drain cocks are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
40. How many toilet tank top-up nozzles are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above

41. How many total gauges are there in WDG4G WABTEC locomotive?
- (a) TWO
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
42. How many total vertical dampers are there in WDG4G WABTEC locomotive?
- (a) EIGHT
 - (b) THREE
 - (c) FOUR
 - (d) None of the above
43. At what pressure will MRSV blow if MR pressure exceeds in WDG4G WABTEC locomotive?
- (a) 10 kg/cm²
 - (b) 10.5 kg/cm²
 - (c) 9.5 kg/cm²
 - (d) None of the above
44. Where is the lube oil pump located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
45. Where is the water oil pump located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
46. Where is the fuel oil pump located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
47. Where are the centrifugal filters located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Engine Cab, ELS
 - (c) Blower Cab, A side
 - (d) None of the above
48. Where is the turbocharger located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Engine Cab, ELS
 - (c) Engine Cab, Center
 - (d) None of the above

49. Where is the lube oil checking point located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS, ALT End
 - (b) Engine Cab, ELS, TSC End
 - (c) Engine Cab, ERS, TSC End
 - (d) B & C
50. Where is the water glow rod located in WDG4G WABTEC locomotive?
- (a) Engine Cab, Both side
 - (b) Blower Cab, A side
 - (c) Radiator Cab, A side
 - (d) None of the above
51. Where are the baggie filters located in WDG4G WABTEC locomotive?
- (a) Engine Cab, Both side
 - (b) Blower Cab, A side
 - (c) Radiator Cab, A side
 - (d) None of the above
52. Where the lube oil is cooler located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Radiator Cab, B side
 - (c) Blower Cab, A side
 - (d) None of the above
53. Where is the pre-lube oil pump located in WDG4G WABTEC locomotive?
- (a) Engine Cab, ERS
 - (b) Radiator Cab, B side
 - (c) Blower Cab, A side
 - (d) None of the above
54. Where is the air bellows located in WDG4G WABTEC locomotive?
- (a) Engine Cab
 - (b) Radiator Cab
 - (c) Under frame
 - (d) None of the above
55. Where are the drag links located in WDG4G WABTEC locomotive?
- (a) Engine Cab
 - (b) Radiator Cab
 - (c) Under frame
 - (d) None of the above
56. Where are the drag bars located in WDG4G WABTEC locomotive?
- (a) Engine Cab
 - (b) Radiator Cab
 - (c) Under frame
 - (d) None of the above

57. Where is the bogie isolating COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
58. Where are the PB isolating COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
59. Where are the BP additional COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
60. Where are the FP additional COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
61. Where are the MREQ COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
62. Where are the BCEQ COCs located in WDG4G WABTEC locomotive?
- (a) Under frame, both side
 - (b) Under frame, B-side
 - (c) Under frame, A-side
 - (d) None of the above
63. How many MREQ COCs are available in WDG4G WABTEC locomotive?
- (a) 2
 - (b) 4
 - (c) 6
 - (d) None of the above
64. How many BCEQ COCs are available in WDG4G WABTEC locomotive?
- (a) 2
 - (b) 4
 - (c) 6
 - (d) None of the above

65. To check the brake power of WDG4G locomotive, how many notches should be advanced?
- (a) 2
 - (b) 1
 - (c) 3
 - (d) None of the above
66. To recover the Alerter Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
67. To recover the Over Speed Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
68. To recover the Power up Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
69. To recover the Console Change Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
70. To recover the Train line Emergency Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
71. To recover the Guard Valve Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above

72. To recover the ACP Penalty, at which position should the Auto Handle be kept in WDG4G locomotive?
- (a) FULL SERVICE
 - (b) EMERGENCY
 - (c) MINIMUM
 - (d) None of the above
73. To recover the Train line Emergency Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
74. To recover the Guard Valve Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
75. To recover the ACP Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
76. To recover the ALP Emergency Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
77. To recover the Auto Handle Emergency Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
78. To recover the Alerter Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above

79. To recover the Power up Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
80. To recover the Console Change Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
81. To recover the Over Speed Penalty, how many seconds should the Auto Handle be kept at EMERGENCY position in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
82. During recovery of Alerter Penalty, how many seconds does the reversing counter display on TCD in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
83. During recovery of Alerter Penalty, how many seconds interval does the reversing counter display on TCD in WDG4G locomotive?
- (a) 20
 - (b) 60
 - (c) 34
 - (d) None of the above
84. During recovery of Power Up Penalty, how many seconds does the reversing counter display on TCD in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
85. During recovery of Over Speed Penalty, how many seconds does the reversing counter display on TCD in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above

86. During recovery of Train Line Emergency Penalty, how many seconds interval does the reversing counter display on TCD in WDG4G locomotive?
- (a) 10
 - (b) 60
 - (c) 34
 - (d) None of the above
87. What is the periodicity for changing baggie filters in WDG4G locomotive?
- (a) 184 days
 - (b) 60 days
 - (c) 92 days
 - (d) None of the above
88. What is the periodicity for changing brake shoes in WDG4G locomotive?
- (a) 45 days
 - (b) 184 days
 - (c) 92 days
 - (d) None of the above
89. What does the blue colour of a humidity indicator indicate about the air dryer in WDG4G locomotive?
- (a) Operating normal
 - (b) Require Inspection
 - (c) Needs overhauling
 - (d) Operating abnormal
90. In case of air dryer malfunction in WDG4G locomotive, what can be done?
- (a) Air dryer can be bypassed
 - (b) Air dryer cannot be bypassed
 - (c) Air dryer can be dummied
 - (d) None of the above
91. What is the MR pressure range in WDG4G locomotive?
- (a) 8-10 kg/cm²
 - (b) 8.5 to 10.5 kg/cm²
 - (c) 9-10 kg/cm²
 - (d) None of the above
92. How many positions does the rotary switch of EBV have in WDG6G locomotive?
- (a) 4
 - (b) 3
 - (c) 5
 - (d) None of the above
93. What is the fuel tank capacity of WDG6G locomotive?
- (a) 8000
 - (b) 7000
 - (c) 6000
 - (d) None of the above

94. What is the condemning wheel diameter of WDG6G locomotive?
- (a) 1018
 - (b) 1016
 - (c) 1020
 - (d) 1096
95. How many brake blocks are there in WDG4G locomotive?
- (a) 4
 - (b) 8
 - (c) 12
 - (d) 24
96. In WDG4G locomotive, while EOT, in which position should the L/T switch be kept?
- (a) Lead
 - (b) Trail
 - (c) Helper
 - (d) Test
97. What is the loco model of WDG6G?
- (a) 710G3B
 - (b) GEVO 16
 - (c) WABTECVO 12
 - (d) Both A & C
98. What is the loco model of WDG4G?
- (a) 710G3B
 - (b) WABTECVO 16
 - (c) GEVO 12
 - (d) Both A & C
99. What is the sand capacity in litres in WDG6G locomotive?
- (a) 630
 - (b) 340
 - (c) 85
 - (d) 105
100. What is the sand capacity in litres in WDG4G locomotive?
- (a) 630
 - (b) 340
 - (c) 85
 - (d) 105
101. How many load bearers are available in WDG4G locomotive?
- (a) 4
 - (b) 6
 - (c) 8
 - (d) None of the above

102. What is the sign for replacing load bearers in WDG4G locomotive?
- (a) Bent or Cracked Metal Shims/Plates
 - (b) Bonding Defects, Damage to Rubber
 - (c) Swelling of rubber
 - (d) All the above
103. What are the possible causes of black smoke from the turbo supercharger in WDG4G locomotive?
- (a) Rotor damaged by foreign object, turbine disk rubbing
 - (b) Excessive carbon build-up between turbine seal and disk
 - (c) Failed bearings or failure of rotor turbine disk or compressor wheel
 - (d) All the above
104. What is the function of the blower assembly in WDG4G locomotive?
- (a) Provides exhausting air from the inertial (spin) filters
 - (b) Collect air from the inertial (spin) filters
 - (c) Circulating air from the inertial (spin) filters
 - (d) None of the above
105. What are the main assemblies of the complete Maotti filter in WDG4G locomotive?
- (a) Filter housing and filtering unit
 - (b) Filter housing and hydraulic motor
 - (c) Filtering unit and hydraulic motor
 - (d) All the above

Answers:

1 (b), 2 (a), 3 (d), 4 (b), 5 (d), 6 (c), 7 (d), 8 (d), 9 (a), 10 (b), 11 (a), 12 (d), 13 (a), 14 (c), 15 (b), 16 (c), 17 (a), 18 (c), 19 (a), 20 (a), 21 (c), 22 (b), 23 (d), 24 (b), 25 (c), 26 (a), 27 (a), 28 (a), 29 (c), 30 (c), 31 (d), 32 (a), 33 (b), 34 (c), 35 (c), 36 (d), 37 (b), 38 (a), 39 (d), 40 (a), 41 (c), 42 (a), 43 (b), 44 (a), 45 (b), 46 (b), 47 (a), 48 (c), 49 (d), 50 (c), 51 (c), 52 (b), 53 (b), 54 (c), 55 (c), 56 (c), 57 (b), 58 (b), 59 (a), 60 (a), 61 (a), 62 (a), 63 (b), 64 (b), 65 (a), 66 (a), 67 (a), 68 (a), 69 (a), 70 (b), 71 (b), 72 (b), 73 (b), 74 (b), 75 (b), 76 (b), 77 (b), 78 (c), 79 (c), 80 (c), 81 (c), 82 (d), 83 (d), 84 (d), 85 (d), 86 (a), 87 (a), 88 (b), 89 (a), 90 (a), 91 (a), 92 (a), 93 (a), 94 (b), 95 (c), 96 (a), 97 (b), 98 (c), 99 (a), 100 (b), 101 (a), 102 (d), 103 (d), 104 (a), 105 (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. The radiator fan of 1400HP DEMU gets drive from:
 - (a) Hydraulic oil pressure
 - (b) Belt
 - (c) Gear
 - (d) Electric motor
3. The purpose of ventilation fan provided in DEMU is:
 - (a) Air flow in engine room
 - (b) To cool down hydraulic oil pressure
 - (c) To cool down radiator core
 - (d) None
4. The compressor fitted in 1400HP DEMU gets drive from:
 - (a) Electric motor
 - (b) Belt
 - (c) By gear
 - (d) Hydraulic oil pressure
5. The compressor fitted in 1600HP DEMU gets drive from:
 - (a) Electric motor
 - (b) Belt
 - (c) By gear
 - (d) Hydraulic oil pressure
6. The ventilation fan of 1400HP CIL engine fitted DEMU gets drive from:
 - (a) Hydraulic oil pressure
 - (b) Belt
 - (c) Gear
 - (d) Electric motor
7. The ventilation fan of 1600HP CIL engine fitted DEMU gets drive from:
 - (a) Hydraulic oil pressure
 - (b) Belt
 - (c) Gear
 - (d) Electric motor
8. The number of radiator fans fitted in a DEMU is:
 - (a) 2
 - (b) 3
 - (c) 4
 - (d) 6

9. The number of radiator ventilation fans fitted in a DEMU is:
- (a) 2
 - (b) 3
 - (c) 4
 - (d) 6
10. The shape of compressor fitted in 1400HP DEMU:
- (a) "V" shape
 - (b) "I" shape
 - (c) "U" shape
 - (d) None
11. The total number of cylinders in compressor of 1400HP DEMU:
- (a) 4
 - (b) 6
 - (c) 8
 - (d) 2
12. The total number of cylinders in 1400HP Cummins engine of DEMU:
- (a) 12
 - (b) 14
 - (c) 16
 - (d) 18
13. The total number of cylinders in 1600HP Cummins engine of DEMU:
- (a) 12
 - (b) 14
 - (c) 16
 - (d) 18
14. The total number of cylinders in 1600HP Caterpillar engine of DEMU:
- (a) 12
 - (b) 14
 - (c) 16
 - (d) 18
15. The brake system EP used in DEMU stands for:
- (a) Electric powered
 - (b) Engine pressure
 - (c) Electro pneumatic
 - (d) None
16. Basic unit of 1400HP DEMU:
- (a) 01 DPC+03TCs
 - (b) 01 DPC+04TCs
 - (c) 01 DPC+05TCs
 - (d) 01 DPC+02TCs
17. Basic Unit of 1600HP DEMU:
- (a) 01 DPC+03TCs
 - (b) 01 DPC+04TCs

- (c) 01 DPC+05TCs
- (d) 01 DPC+02TCs

18. As per RPC-IV (Revised Pattern of Coach Maintenance) periodicity for under gear examination in pitline for 1400HP DEMU:
- (a) 07 Days
 - (b) 08 Days
 - (c) 09 Days
 - (d) 10 Days
19. As per RPC-IV (Revised Pattern of Coach Maintenance) periodicity for under gear examination in pitline for 700HP DEMU:
- (a) 07 Days
 - (b) 08 Days
 - (c) 09 Days
 - (d) 10 Days
20. Periodicity of D-check for 1400HP DEMU engine:
- (a) 12 Months
 - (b) 18 Months
 - (c) 24 Months
 - (d) 36 Months
21. Periodicity of E-check for 1400HP DEMU engine:
- (a) 18 Months
 - (b) 36 Months
 - (c) 54 Months
 - (d) 72 Months
22. 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
23. Schedule of Standard Examination of 1400HP BG DEMU:
- (a) MP.MISC.250
 - (b) MP.MISC.328
 - (c) MP.MISC.157
 - (d) MP.MISC.375
24. Model of ELGI compressor in 1400HP DEMUs:
- (a) TRC 2507
 - (b) RR15070
 - (c) TRC 1000B
 - (d) KCW523
25. Model of ELGI compressor in 1600HP DEMUs:
- (a) TRC 2507
 - (b) RR 15070

- (c) TRC 1000B
- (d) KCW523

26. Type of compressor used in DEMUs:

- (a) Reciprocating
- (b) Axial Flow
- (c) Centrifugal
- (d) Rotary screw

27. BC pressure of DEMU DPC:

- (a) 1.6 +/- 0.1 kg/cm²
- (b) 1.4 +/- 0.1 kg/cm²
- (c) 1.5 +/- 0.1 kg/cm²
- (d) 1.6 +/- 0.2 kg/cm²

28. BC pressure of DEMU TC:

- (a) 3.5 +/- 0.1 kg/cm²
- (b) 3.5 +/- 0.2 kg/cm²
- (c) 3.8 +/- 0.1 kg/cm²
- (d) 3.6 +/- 0.2 kg/cm²

29. MR safety valve blowing pressure:

- (a) 8.5 +/- 0.1 kg/cm²
- (b) 10 +/- 0.1 kg/cm²
- (c) 7.5 +/- 0.1 kg/cm²
- (d) 9 +/- 0.1 kg/cm²

30. Compressor governor setting close at:

- (a) 8.5 kg/cm²
- (b) 8 kg/cm²
- (c) 7.5 kg/cm²
- (d) 9 kg/cm²

31. Compressor governor setting open at:

- (a) 8.5 kg/cm²
- (b) 8 kg/cm²
- (c) 7.5 kg/cm²
- (d) 7.4 kg/cm²

32. Type of coupling in DEMUs:

- (a) Screw coupling
- (b) H-Type
- (c) Schaku
- (d) CBC coupling

33. POH periodicity of TCs:

- (a) 18 Months
- (b) 36 Months
- (c) 54 Months
- (d) 72 Months

34. Secondary suspension in 1600HP DEMUs:
- (a) Coil spring
 - (b) Air spring
 - (c) torsion spring
 - (d) leaf spring
35. Which valve is connected between Air spring bellows:
- (a) Levelling valve
 - (b) Duplex check valve
 - (c) Relay valve
 - (d) C3W Valve
36. No. of Duplex check valve fitted in Air Spring bogie are:
- (a) 01
 - (b) 02
 - (c) 03
 - (d) 04
37. Nos. of levelling valves fitted in one air spring bogie are:
- (a) 01
 - (b) 02
 - (c) 03
 - (d) 04
38. During Proper pressure in air spring the position of levelling valve becomes:
- (a) Vertical
 - (b) Horizontal
 - (c) Inclined
 - (d) None of these
39. FIBA Means:
- (a) Failure identification brake application
 - (b) Failure indication brake application
 - (c) Failure identification brake applicator
 - (d) None of these
40. Codal life of DEMU coaches:
- (a) 18 years
 - (b) 25 years
 - (c) 20 years
 - (d) 40 years
41. 8th notch RPM of DEMU:
- (a) 2500
 - (b) 1800
 - (c) 1500
 - (d) 950
42. Each DEMU coach has how many EP units:
- (a) 2
 - (b) 3

- (c) 1
 - (d) None of these
43. Default position of application magnet valve:
- (a) closed
 - (b) open
 - (c) Partial closed
 - (d) Partial open
44. Default position of holding magnet valve:
- (a) closed
 - (b) open
 - (c) Partial closed
 - (d) Partial open
45. After an air spring failure in a Diesel Multiple Unit (DMU), the loco pilot must immediately reduce the speed to:
- (a) 60 kmph
 - (b) 30 kmph
 - (c) 45 kmph
 - (d) No speed restriction
46. Ride index of coaches fitted Air springs is:
- (a) 2.72
 - (b) 3.73
 - (c) 3.5
 - (d) 2.5
47. Advantages of Air Suspension system, as secondary suspension:
- (a) Better riding comfort
 - (b) Capacity to sustain super dense crush load
 - (c) Constant floor height of coach
 - (d) All of the above
48. Capacity of Auxiliary reservoir of Airspring:
- (a) 20 Liters
 - (b) 50 Liters
 - (c) 30 Liters
 - (d) 40 Liters
49. Over hauling periodicity of compressor:
- (a) 18 Months
 - (b) 36 Months
 - (c) 54 Months
 - (d) 72 Months
50. Primary suspension in 1600HP DEMUs:
- (a) Coil spring
 - (b) Air spring
 - (c) torsion spring
 - (d) leaf spring

51. 1400 HP DEMU when low cooling water level (LCWL) sensor operated?
- (a) engine to idle
 - (b) engine shutdown
 - (c) hot engine
 - (d) engine to 8th notch
52. When the parking brake applied the parking brake gauge shows?
- (a) 5kg/cm²
 - (b) 7kg/cm²
 - (c) 0kg/cm²
 - (d) 3.5kg/cm²
53. Hot Engine Alarm experienced in 1400 HP DEMU water temperature is?
- (a) 85°c
 - (b) 93°c
 - (c) 78°c
 - (d) 68°c
54. The shape of compressor fitted in 1600HP DEMU:
- (a) "V" shape
 - (b) "I" shape
 - (c) "W" shape
 - (d) None
55. Fuel Tank capacity of 1400 HP DPC:
- (a) 1700 ltrs
 - (b) 1750 ltrs
 - (c) 3000 ltrs
 - (d) 1500 ltrs
56. Grease used in axle box of DPC:
- (a) Servo Gem RR3
 - (b) Cyprina
 - (c) Shell Alvina
 - (d) None of these
57. The total number of cylinders in compressor of 1600HP DEMU:
- (a) 3
 - (b) 6
 - (c) 8
 - (d) 2
58. IOH periodicity of TCs:
- (a) 18 Months
 - (b) 9 Months
 - (c) 54 Months
 - (d) 72 Months

Answers

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

E. WAG7 Locomotives:

1. Location of R-1 COC in WAG-7 loco is
 - (a) Cab-1 center locker
 - (b) Near control reservoir
 - (c) Above wheel no.4
 - (d) Cab-1 left side locker
2. Location of C2A relay valve in WAG-7 loco
 - (a) Behind BA box no.3
 - (b) Pneumatic panel
 - (c) Behind BA boxno.1
 - (d) Behind BA boxno.4
3. No.of positions in A9valve
 - (a) 2
 - (b) 3
 - (c) 4
 - (d) 5
4. In conventional locos,reservoir pressure is used for creation Of loco BC pressure.
 - (a) MR1
 - (b) MR2
 - (c) MR3
 - (d) MR4
5. Location of A-8 COC in WAG-7 loco above is
 - (a) In cab-1 below A-9
 - (b) Pneumatic panel
 - (c) Incab-2 below A-9
 - (d) None of the above
6. In WAG 7 loco,if all line contactors are not closed, ensure..... COCs are in open position.
 - (a) EP2&EP3
 - (b) EP1&EP3
 - (c) MR4& EP3
 - (d) EP1and EP2
7. When BP drops below 4.4kg/cm2(in BP gauge) without tA9..... Starts functioning.
 - (a) ACP Indication
 - (b) AFL
 - (c) Both A&B above
 - (d) None of the above
8. In conventional locos RGE2 is connected on.....Pipeline.
 - (a) FP pipe
 - (b) Brake Pipe
 - (c) Control pipe

(d) All the above

9. In conventional locos Auto Drain Valve will drain out the moisture at.....Kg/cm²(when BLCP is closed).

- (a) 8
- (b) 9.5
- (c) 10.5
- (d) 11

10. In conventional loco reservoir pressure issued for FP Pressure creation.

- (a) MR1
- (b) MR2
- (c) MR3
- (d) MR4

11. When BPSW is pressed, valve energizes for quicker creation Of BP pressure.

- (a) MV4
- (b) R6
- (c) VEF electrical
- (d) IP

12. In conventional locos, SS2 safety valve is set at.....kg/cm².

- (a) 10
- (b) 11
- (c) 10.5
- (d) 11.

13. In conventional locos proportional working pressure with A9 is kg/cm².

- (a) 2
- (b) 2.5
- (c) 1.8
- (d) 3.5

14. Maximum kg/cm² of pressure will go to brake cylinders of each wagon, when BP dropsto'0'.

- (a) 2
- (b) 2.5
- (c) 1.8
- (d) 3.8

15. A-8 COC position is.....in MU leading loco and.....in MU trailing loco

- (a) Open, Close
- (b) Open, Open
- (c) Close, Close
- (d) Close, Open

16. In conventional locos, if wipers, sanders are not working and FP pressure Is not creating.....valve to be tapped.

- (a) Duplex check valve

- (b) Double check valve
- (c) Both A&B
- (d) None of the above

17. In conventional locos, if DJ trips during dynamic braking....valve Destroys BP pressure automatically.

- (a) IP(M)
- (b) C3W
- (c) A9feed
- (d) Auto drain

18. In conventional dead loco, IP(M) COC must be in.....position.

- (a) Close
- (b) open
- (c) Either close or open
- (d) None of the above

19. Leakages in formation 'BP 'pipe is indicated through gauges in both cabs.

- (a) MR
- (b) Loco BC
- (c) FP
- (d) AFI

20. To bypass the air dryer colour cutout cock to be closed and colour cutout cock to be opened.

- (a) Red, Green
- (b) Green, Red
- (c) Red, Red
- (d) Green, Green

21. In air brake locos, ALP emergency brake is connected topipe line.

- (a) BP
- (b) MR
- (c) FP
- (d) BC

22. When additional BP cutout cock is closed on formation side,pressure will not charge in to the formation.

- (a) BP
- (b) FP
- (c) MR
- (d) All the above

23. During BP pressure leakage information, Lamp glows in signaling panel.

- (a) LSD
- (b) LSP
- (c) LSAF
- (d) LSB

24. Normal position of additional BP cut out cocks on either side of the Loco is.....
- (a) Open
 - (b) Close
 - (c) Either close or open
 - (d) None of the above
25. Though MCPA is working and RS pressure is not creating, drain cocks to be checked.
- (a) EP
 - (b) CP
 - (c) DC
 - (d) RS,PT&CPA
26. In single pipe air brake system, formation wagon/coach auxiliary reservoir is charged with pressure.
- (a) MR4
 - (b) FP
 - (c) BC
 - (d) BP
27. In MU both locos pneumatic pressure is maintained equally throughpipe.
- (a) BP
 - (b) FP
 - (c) BC equalizing
 - (d) MR equalizing
28. In twin pipe air brake system, coaches auxiliary reservoir is Charged with.....pressure.
- (a) MR4
 - (b) FP
 - (c) BC
 - (d) BP
29. In double head trailing loco,A8 COC must be in.....position.
- (a) Open
 - (b) Close
 - (c) Either(A)or(B)
 - (d) None of the above
30. During CP efficiency test, when BPSW is pressed, BP should not Drop below.....kg/cm2 (write the BP gauge reading).
- (a) 4
 - (b) 4.4
 - (c) 3.5
 - (d) 2.5
31. During BP continuity test,kg/cm2 of BP pressure to Be dropped through A9 in the loco.
- (a) 2.5

- (b) 3.5
- (c) 2
- (d) 1

32. Auto sanding is done by the energization of.....Relay.

- (a) Q44
- (b) Q49
- (c) Q48
- (d) Q50

33. Whenever cattle run over takes place, if BP dropped the Immediate duty Of crew is to switch on.....light.

- (a) Head light
- (b) Cab light
- (c) Marker light
- (d) Flasher light

34. Whenever cattle run over takes place, after clearing the block section, the LP has to check voltage.

- (a) OHE voltage
- (b) Battery voltage
- (c) Charger voltage
- (d) None

35. To close all line contactors, position of EP1&EP2 COCs in WAG7are.....

- (a) EP1 & EP2 close
- (b) EP1 & EP2 open
- (c) EP1 open, EP2 close
- (d) EP1 close,EP2 open

36. In WAG-7 loco the side bearers nearer to the centre pivot carries% of vertical load & the side bearers away to the Center pivot carries.....% of vertical load.

- (a) 40,60
- (b) 60,40
- (c) 50,50
- (d) 100,0

37. Numbers of brake cylinders are provided in WAG-7 loco.

- (a) 8
- (b) 24
- (c) 6
- (d) 12

38.type bogie provided in WAG-7locos.

- (a) CO-CO tri mount bogie
- (b) CO-Co tetra mount high
- (c) CCO-CO flexi coil bogie
- (d) Adhesion bogie BO-BO tri mount bogie

39. When dead loco is attached on formation, if loco brakes are not releasing proportionally, is to be isolated in Dead loco to avoid wheel skidding.
- (a) C3W Valve
 - (b) C2A
 - (c) MU2B
 - (d) Both cab A9
40. In conventional locos, when VCD is acted,actions will take place.
- (a) Auto regression and BP drops Panto lowers
 - (b) DJ trips
 - (c) None of the above
 - (d) None of the above
41. In conventional locos, to acknowledge VCD, Ack. push button/paddle switch should not be pressed for more thanSecs.
- (a) 30
 - (b) 32
 - (c) 45
 - (d) 60
42. When BPEMS is pressed, actions will take place.
- (a) DJ trips
 - (b) BPanto lowers
 - (c) BP drops
 - (d) All the above
43. 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'
44. In conventional locos, in case of any malfunctioning, to isolate VCD, keepswitch in 'OFF' position.
- (a) VCD By pass
 - (b) Reset
 - (c) Acknowledgement
 - (d) None of the above
45. -----relay causes Auto Regression during AFL working
- (a) PR1
 - (b) PR2
 - (c) RGEB2
 - (d) Q20
46. The OHE supply of two traction substations is separated by-----
- (a) Neutral section

- (b) SP
- (c) SSP
- (d) TSS

47. Axle load of WAG-7 loco is

- (a) 20 T
- (b) 20.5 T
- (c) 21 T
- (d) None of above

48. The difference in wheel diameter from bogie to bogie in WAG-7 loco is

- (a) 15 mm to 20mm
- (b) 15mm to 25mm
- (c) 2 to 5mm
- (d) 2 to 6mm

49. Difference in wheel diameter on same bogie in WAG-7 loco is

- (a) 15 mm to 20mm
- (b) 15mm to 25mm
- (c) 2 mm to 8 mm
- (d) 0.5 mm to 2.5 mm

50. 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

51. Horse power of WAG-7 loco is

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

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

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

53. 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

54. In WAG-7 loco NC-4 valve is used for

- (a) EP contactor

- (b) Reverser
- (c) Both A and B
- (d) None of above

55. Setting of RGCP in WAG-7 loco for cut out compressor

- (a) 8 kg/cm²
- (b) 10 kg/cm²
- (c) 9.5 kg/cm²
- (d) None of above

56. Setting of RGCP in WAG-7 loco for cut in compressor

- (a) 8 kg/cm²
- (b) 10 kg/cm²
- (c) 9.5 kg/cm²
- (d) None of above

57. In WAG-7 loco, minimum rising time for pantograph should be

- (a) 6 seconds
- (b) 7 seconds
- (c) 8 seconds
- (d) 9 seconds

58. How Many vertical dampers are used in WAG-7 loco

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

59. How Many Horizontal dampers are used in WAG-7 loco

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

60. What is the minimum Brake cylinder piston stroke length in WAG-7 loco.

- (a) 100 mm
- (b) 105 mm
- (c) 107 mm
- (d) 110 mm

61. What is the maximum Brake cylinder piston stroke length in WAG-7 loco.

- (a) 120 mm
- (b) 115 mm
- (c) 110 mm
- (d) 117 mm

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

- (a) QRSI

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

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

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

64. In WAG-7 loco, during DBR mode VEF will

- (a) Energized
- (b) Not Energized
- (c) Energizes after 60 sec
- (d) None of the above

65. 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

66. Air Drier is provided for

- (a) Improving Brake Power
- (b) Remove Moisture from Compressed Air
- (c) Improve efficiency of CP
- (d) None

67. Which valve is used for BP charging in WAG-7 loco

- (a) AFM
- (b) C2 Relay
- (c) MU2B
- (d) SA9

68. 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

69. In WAG-7 loco the air dryer is fitted between which MR tanks

- (a) Between MR 1 and 2
- (b) Between MR 2 and 3
- (c) Between MR 3 and 4
- (d) Between MR 1 and 4

70. What is the MR port No. of A-9 and SA-9 valve in WAG-7 loco

- (a) 3
- (b) 5
- (c) 30
- (d) 2

71. Maximum permissible Diameter difference on same axle of wheel in WAG-7 loco is

- (a) 2.5 mm
- (b) 4 mm
- (c) 8 mm
- (d) 20 mm

72. What is the nominal free height of outer Helical spring of WAG-7 loco

- (a) 552 mm
- (b) 554 mm
- (c) 550 mm
- (d) 556 mm

73. What is the nominal free height of inner Helical spring of WAG-7 loco

- (a) 512 mm
- (b) 520 mm
- (c) 484 mm
- (d) 505 mm

74. 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

75. 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

76. 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

77. Which end of the Battery is connected to earth in WAG7 locos

- (a) Phase
- (b) Negative
- (c) Neutral
- (d) Positive

78. Loco is grounded through

- (a) BL key
- (b) HOBA
- (c) HOM
- (d) ZSMGR

79. Battery voltage of WAG7 loco

- (a) 72V
- (b) 100V
- (c) 110V
- (d) 90V

80. Minimum lateral clearance in end axle of WAG-7 loco is

- (a) 30.7 mm
- (b) 22.0mm
- (c) 22.2mm
- (d) None of above

81. The weight of a WAG-7 locomotive is

- (a) 123 T
- (b) 135 T
- (c) 180 T
- (d) None of above

82. Parking brake gauge shows pressure in applied condition

- (a) 6 kg/cm²
- (b) 3.5 kg/cm²
- (c) 5 kg/cm²
- (d) 0 kg/cm²

83. Parking brake gauge shows pressure in released condition

- (a) 6 kg/cm²
- (b) 3.5 kg/cm²
- (c) 5 kg/cm²
- (d) 0 kg/cm²

84. The maximum permissible speed limit of WAG-7 Loco is

- (a) 90 kmph
- (b) 100 kmph
- (c) 165 kmph
- (d) 140 kmph

85. The service limit of lateral clearance allowed in middle axle in WAG-7 loco is

- (a) 11.5 mm
- (b) 30.7 mm
- (c) 6.0 mm
- (d) none of the above

86. The service limit of lateral clearance allowed in end axle in WAG-7 loco is

- (a) 11.5 mm
- (b) 30.7 mm
- (c) 6.0 mm
- (d) none of the above

87. The service limit of longitudinal clearance allowed in middle axle and end axle in WAG-7 loco is

- (a) 11.5 mm
- (b) 30.7 mm
- (c) 6.0 mm
- (d) none of the above

88. The maximum brake cylinder pressure through SA-9 in WAG-7 loco is

- (a) 3.5kg/cm²
- (b) 2.5kg/cm²
- (c) 1.5kg/cm²
- (d) 2.0kg/cm²

89. In WAG-7 loco, Cardium compound is filled in

- (a) CP
- (b) Axle Box
- (c) TM
- (d) Gear case

90. How Many types of oil damper used in WAG-7 loco

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

91. How Many Horizontal dampers are used in WAG-7 loco

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

92. How Many Equalizer Beam used in WAG-7 loco

- (a) 10
- (b) 6
- (c) 8
- (d) 12

93. How Many Side Bearers are provided in WAG-7 loco

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

94. Which type of fire extinguishers are provided in WAG-7

- (a) FOAM
- (b) CO2
- (c) DCP
- (d) Halon

95. Permissible limit of piston travel of brake cylinder in WAG- 7 locos is

- (a) 100 mm to 120mm
- (b) 107 mm to 117mm
- (c) 115mm to 125mm
- (d) 120 mm to 130mm

96. In conventional loco reservoir pressure is used for horns

- (a) MR1
- (b) MR2
- (c) MR3
- (d) MR4

97. The clearance between brake block and wheel tyre should be mm in release position of loco brake

- (a) 10
- (b) 5
- (c) 15
- (d) 20

98. In conventional locos proportional working pressure with A9 is Kg/cm²

- (a) 2
- (b) 2.5
- (c) 1.8
- (d) 3.5

99. In conventional locos Reservoir pressure is used for creation of BP pressure

- (a) MR1
- (b) MR2
- (c) MR3
- (d) MR4

100. During BP continuity test kg/cm² of BP pressure to be dropped through A9 in the loco

- (a) 3.5
- (b) 2.5
- (c) 1.8
- (d) 1

101. Location of VEPR-1 in crew friendly locos is

- (a) Loco roof
- (b) Cab-1 back panel
- (c) In cab-1
- (d) In BA-1 panel

102. For lowering or for rising the panto in three stages ----- valve is provided

- (a) panto servo motor
- (b) Throttle valve
- (c) Both A & B
- (d) None of the above

Answers:

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

F. WAG9 locomotives.

1. The WAG 9 loco has what type of bogie?
 - (a) Bo-Bo flexi coil
 - (b) Co-Co Tri mount
 - (c) Co-Co flexi coil
 - (d) Co-Co tetra mount high adhesion
2. 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
3. Parking brakes are provided to which wheels in a WAG 9 loco?
 - (a) 1, 4, 5 & 8
 - (b) 2, 6, 7 & 11
 - (c) 2 & 11
 - (d) 1, 6, 7 & 12
4. In a 3-Phase loco, 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
5. In a 3-Phase loco, for charging of BP pressure, which COC should be kept open?
 - (a) 8 COC
 - (b) 74 COC
 - (c) 47 COC
 - (d) 70 COC
6. In a WAG 9, what is the maximum brake cylinder pressure with direct brake?
 - (a) 1.8 kg/cm²
 - (b) 2.5 kg/cm²
 - (c) 5 kg/cm²
 - (d) 3.5 kg/cm²
7. What is the procedure for quick charging of BP pressure in a 3-PHASE loco?
 - (a) Press BPVG
 - (b) Keep A9 in release position
 - (c) Press PVEF
 - (d) Press Emergency stop switch
8. The position of the mode switch in the leading cab of a 3-PHASE loco provided with Knorr brake is what?
 - (a) HLPR
 - (b) Lead
 - (c) Trail
 - (d) Test

9. A WAG 9 loco has how many dampers in primary suspension?
- (a) 8
 - (b) 4
 - (c) 64
 - (d) 40
10. In a 3-PHASE loco provided with Knorr brake, the auto brake valve (A9) handle can be locked or unlocked in which position?
- (a) Emergency
 - (b) Neutral
 - (c) Full service
 - (d) Minimum reduction
11. A three-phase loco has how many additional COCs (total COC on both sides)?
- (a) 4
 - (b) 8
 - (c) 16
 - (d) 2
12. In WAG 9, where is the location of the air dryer?
- (a) Behind MCP 1 in left side
 - (b) Between two trucks
 - (c) Behind cattle guard 1 in ALP side
 - (d) Behind cattle guard 1 loco pilot side
13. A WAG 9 loco is provided with how many direct brake cylinders and parking brake cylinders?
- (a) 12 & 4
 - (b) 12 & 12
 - (c) 4 & 12
 - (d) 12 & 6
14. When a three-phase loco is attached as dead and parking brakes are released manually, what does the parking brake pressure gauge show?
- (a) 0 Kg/cm²
 - (b) 4 Kg/cm²
 - (c) 5 Kg/cm²
 - (d) 6 Kg/cm²
15. To move a 3-PHASE loco as live or dead, which brakes must be released?
- (a) Parking brakes, proportional
 - (b) Parking, Direct brakes
 - (c) Direct brakes, proportional
 - (d) None of the above
16. 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

17. In a 3-PHASE loco provided with Knorr brake, when attached as a banker, what is the position of the mode switch?
- (a) HLPR
 - (b) Lead
 - (c) Trail
 - (d) Test
18. Where is the emergency stop push button switch located in a three-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
19. WAG 9 locos have how many dampers (in both primary and secondary suspension)?
- (a) 16
 - (b) 20
 - (c) 40
 - (d) 10
20. A three-phase loco has how many three-phase auxiliary motors in the loco under frame?
- (a) 2
 - (b) 4
 - (c) 12
 - (d) 8
21. 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
22. If RS pressure is below 8 Kg/cm² and MCPs are not working, MCPA starts automatically provided the BL key is in which position?
- (a) C
 - (b) D
 - (c) C or D
 - (d) None of the above
23. A WAG 9 loco has how many helical springs in primary suspension?
- (a) 8
 - (b) 16
 - (c) 4
 - (d) 32
24. In a 3-PHASE loco, what is the loco grounding switch?
- (a) HOM
 - (b) BL key
 - (c) Blue KABA key (IG 38)
 - (d) HPT

25. In a 3-PHASE loco, where is the location of MCP 1?
- (a) In machine room No. 1
 - (b) In machine room No. 2
 - (c) Below machine room No. 2
 - (d) Below machine room No. 1
26. 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
27. In a 3-PHASE loco, for the application of parking brakes, the speed should be below what?
- (a) 5 Kmph
 - (b) 15 Kmph
 - (c) 1.5 Kmph
 - (d) Zero Kmph
28. In proportional working, what is the maximum brake cylinder pressure in a WAG 9 loco?
- (a) 1.8 kg/cm²
 - (b) 3.5 kg/cm²
 - (c) 2.5 kg/cm²
 - (d) 5 kg/cm²
29. In a 3-PHASE loco, what is the normal position of the panto selector switch?
- (a) Norm
 - (b) I
 - (c) II
 - (d) Auto
30. In a 3-PHASE loco, what is the required time gap between two operations of PSA pressing for sanders?
- (a) 10 to 12 Minutes
 - (b) 10 to 12 Seconds
 - (c) 12 to 15 Seconds
 - (d) 30 Seconds
31. 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
32. In a 3-PHASE dead loco, which COC should be open for charging BP pressure into the auxiliary reservoir?
- (a) 70COC
 - (b) 47COC
 - (c) 74COC
 - (d) 136COC

33. 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
34. For resetting VCD in a WAG 9 or WAP 7 loco, how many seconds should you wait?
- (a) 120
 - (b) 100
 - (c) 240
 - (d) 160
35. 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
36. 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
37. What oil is used in the gear case of WAG9 auxiliary machines?
- (a) Shello 150
 - (b) Servo press 150
 - (c) Servo gem RR3
 - (d) 150 S
38. 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
39. 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
40. The fault message F0101 P1 results in what?
- (a) Harmonic power off
 - (b) Main power off
 - (c) Aux power off
 - (d) None of the above

41. What grease is used for the lubrication of bearings of FRA 6068?

- (a) RR 120
- (b) SHC 120
- (c) SHE 120
- (d) HC 120

42. 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

43. In a 3-PHASE dead loco, which COC should be open for charging BP pressure into the auxiliary reservoir?

- (a) 70
- (b) 47
- (c) 74
- (d) 136

44. While a 3-PHASE loco is working as a banker, which switch should be put on and which cut-out cock closed?

- (a) ZTEL
- (b) ZBAN
- (c) BLHO
- (d) None of the above

45. In a 3-PHASE loco, for charging of BP pressure, which COC should be kept open?

- (a) A-8
- (b) 47
- (c) 70
- (d) 74

46. During loco brake testing of WAG-9 or WAP-7, the loco should not move up to how many kN?

- (a) 100
- (b) 300
- (c) 150
- (d) 200

47. In a 3-PHASE loco, continuous pressing of PSA for more than 60 seconds is called what mode?

- (a) VCD isolation
- (b) VCD acknowledgement
- (c) Dead man
- (d) None of the above

48. In a 3-PHASE loco, constant speed control (CSC) will be deactivated automatically if BP pressure drops (with or without A9) more than how many kg/cm²?
- (a) 0.25
 - (b) 1
 - (c) 1.5
 - (d) 0.6
49. While clearing a 3-PHASE loco (provided with Knorr brake) as dead, what is the mode switch position in both cabs?
- (a) Trail
 - (b) Lead
 - (c) Test
 - (d) HLPR
50. While working a 3-PHASE loco as a banker, which COCs should be closed in the pneumatic panel?
- (a) 74 & 136
 - (b) 70 & 136
 - (c) 70 & 74
 - (d) All of the above
51. 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
52. 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
53. Parking brakes are provided to which wheels in a WAG-9 loco?
- (a) 2, 6, 7 & 11
 - (b) 1, 4, 5 & 8
 - (c) 1, 6, 7 & 12
 - (d) 2 & 11
54. A 3-PHASE loco has how many additional COCs (total COC on both sides)?
- (a) 4 + 4
 - (b) 4
 - (c) 16
 - (d) 2

55. A WAG-9 loco is provided with how many direct brake cylinders and parking brake cylinders?
- (a) 12 & 4
 - (b) 12 & 12
 - (c) 4 & 12
 - (d) 12 & 6
56. 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
57. To move a 3-PHASE loco as live or dead, which brakes must be released?
- (a) Parking, Direct brakes
 - (b) Direct brakes, proportional
 - (c) Parking brakes, proportional
 - (d) None of the above
58. In a 3-PHASE loco, if the throttle (ATDC) fails, keep which switch in which position?
- (a) 152, 1
 - (b) 154, 0
 - (c) 160, 1
 - (d) 152, 0
59. In a 3-PHASE loco, when parking brakes are applied, what does the parking brake gauge show?
- (a) 0 Kg/cm²
 - (b) 4 Kg/cm²
 - (c) 3.5 Kg/cm²
 - (d) 6 Kg/cm²
60. 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) I & II
61. 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
62. WAG-9 or WAP-7 locos have how many dampers (in both primary and secondary suspension)?
- (a) 20
 - (b) 16
 - (c) 40
 - (d) 10

63. Where is the location of MCP-2 in a 3-PHASE loco?
- (a) Loco right side below Machine room No. 2
 - (b) Loco left side below Machine room No. 1
 - (c) Machine room No. 1
 - (d) Machine room No. 2
64. In proportional working, what is the maximum brake cylinder pressure in a WAG-9 loco?
- (a) 1.8 kg/cm²
 - (b) 2.5 kg/cm²
 - (c) 3.5 kg/cm²
 - (d) 5 kg/cm²
65. The brake application time through DBC in WAG-9 locos is?
- (a) 06 to 09 secs
 - (b) 10 to 15 secs
 - (c) 15 to 20 secs
 - (d) 20 to 25 secs
66. Number of electronic cards available in E-70 panel?
- (a) 4
 - (b) 6
 - (c) 3
 - (d) 2
67. The pressure switch associated with working of Baby compressor is?
- (a) Pn 26
 - (b) Pn 60
 - (c) Pn 59
 - (d) Pn 6
68. In E-70 brake system locos the coc-47 is used for?
- (a) Moving the loco dead
 - (b) Application of brakes through A9
 - (c) Operation/Isolation of PBU
 - (d) Operation/Isolation of sanders
69. The size of choke available in sander circuit in WAG-9/WAP-7 locos is?
- (a) 5.5mm
 - (b) 2mm
 - (c) 3mm
 - (d) 4mm
70. The operating pressure of contactors in TC1, 2 & HF?
- (a) 10kg/sqcm
 - (b) 6kg/sqcm
 - (c) 5kg/sqcm
 - (d) 8kg/sqcm

71. In 3Ø loco, Auto brake handle (A9) can be inserted or taken out in which position?
- (a) Potential
 - (b) Main
 - (c) Harmonic filter
 - (d) None of the above
72. In 3 phase locos, auto brake valve handle (A9 in E70 brake system) having ____ number of positions?
- (a) 4
 - (b) 5
 - (c) 6
 - (d) 2
73. Direct brake handle (SA9) is having ____ number of positions in 3 phase locos?
- (a) 6
 - (b) 2
 - (c) 3
 - (d) 4
74. In 3Ø loco, MCPA works up to ____ Kg/cm² of RS pressure?
- (a) 5.2 kg/Cm²
 - (b) 6.4 Kg/cm²
 - (c) 10 Kg/cm²
 - (d) 6.0 Kg/cm²
75. In 3Ø loco, during general check up, ____ to be checked which is connected between bogie transom and loco body?
- (a) Traction frame
 - (b) Vertical dampers
 - (c) Helical springs
 - (d) Traction link
76. In 3Ø loco, AFL actions are?
- (a) TE/BE drops to 'O'
 - (b) Flasher Light works
 - (c) BZ-V-O-F sounds
 - (d) All of the above
77. _____ type of fire extinguishers is provided in three phase locos?
- (a) BC
 - (b) DCP
 - (c) CO₂(Carbon dioxide)
 - (d) Fixed DCP & Portable CO₂
78. In three phase locos ____ number of sub systems is provided?
- (a) 18
 - (b) 17
 - (c) 19
 - (d) 15

79. If BP is not charging beyond 3 kg/cm² in In 3Ø Knorr brake loco, keep auto brake valve (A9) in ____ position for 10 seconds and bring back to Run?
- (a) Release
 - (b) Full Service
 - (c) Emergency
 - (d) Minimum reduction
80. Location of Harmonic filter resistances in 3Ø loco is?
- (a) Loco roof
 - (b) Inside FB
 - (c) Minimum reduction
 - (d) By the side of pneumatic panel
81. To apply parking brakes in 3Ø dead loco, press __ side plunger of solenoid valve?
- (a) Left
 - (b) Any plunger
 - (c) Right
 - (d) None of the above
82. WAG 9 or WAP 7 locos are having ____ number of drain cocks?
- (a) 2
 - (b) 3
 - (c) 4
 - (d) 5
83. In 3Ø loco, during loco brake test, ensure BC gauge shows ____ kg/cm², BP gauge shows ____ Kg/cm² and PB gauge shows ____ kg/cm²?
- (a) 3.5, 5 & 0
 - (b) 3.5, 5 & 6
 - (c) 0, 5 & 6
 - (d) None of the above
84. While working three Ø loco as banker, close ____ COC in pneumatic panel?
- (a) 70
 - (b) 74
 - (c) 136
 - (d) All of the above
85. In 3 phase locos, in cooling mode, for panto and DJ _____ Creates pressure?
- (a) MCPs
 - (b) MCPA
 - (c) Both a and
 - (d) None of the above
86. In 3Ø loco, In case of emergency, ALP can stop the train by operating ____?
- (a) Emergency stop switch
 - (b) Emergency brake valve
 - (c) BPVG
 - (d) Emergency stop switch or Emergency brake valve

87. The axle load of WAG 9 is?

- (a) $23 \pm 2\%$ tones
- (b) $21.5 \pm 2\%$ tones
- (c) $27.5 \pm 2\%$ tones
- (d) $20.5 \pm 2\%$ tones

88. Different gear ratios in WAG-9 loco is?

- (a) 15:77, 18:64
- (b) 15:77, 20:72
- (c) 15:77, 21:107
- (d) 15:77, 17:77

89. After completion of self-test in 3Ø locomotives following node will appear?

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

90. Conversion of BP control pressure into electrical signal in 3Ø locomotives is done by?

- (a) Pressure sensor
- (b) Pressure switch
- (c) Pressure transducer
- (d) None of the above

91. 260 indicate _____ equipment?

- (a) Filter block
- (b) SR rack
- (c) Pneumatic panel
- (d) BUR

92. Consider following activities 1. TM changing 2. Wheel Set changing 3. Axle damper changing 4. PHS changing which of the above activities requires loco lifting?

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

93. Maximum speed of a WAG-9 loco is?

- (a) 110 KMPH
- (b) 140 KMPH
- (c) 100 KMPH
- (d) 130 KMPH

94. Maximum tractive effort of a WAG-9 loco is?

- (a) 54 T
- (b) 47T
- (c) 52T
- (d) 56T

95. Lubricant used in gear cases of three phase locos is?
- (a) 460 RR
 - (b) 450 RR
 - (c) 478 RR
 - (d) 438 RR
96. In SGCI Labyrinth, SGCI stands for?
- (a) Spheroidal gray cast Iron
 - (b) Spheroidal graphite cast Iron
 - (c) Spheroidal cast graphite Iron
 - (d) Sphero cast graphite Iron
97. Traction motor mounting arrangements in three phase locos is?
- (a) Semi suspended on bogie frame
 - (b) Fully suspended on bogie frame
 - (c) Partial suspended on bogie frame
 - (d) None of the above
98. Self hold mode means?
- (a) CE will remain active for 1 min.
 - (b) CE will remain active for 10 mins.
 - (c) CE is off.
 - (d) CE will remain active for 12 mins.
99. Electrical brake in three phase loco is called as?
- (a) Independent loco brake
 - (b) Parking brake
 - (c) Re-regenerative brake
 - (d) Automatic train brake
100. In 3Ø loco, if vigilance penalty brakes are applied BP pressure drops to ____ kg/cm²?
- (a) 2
 - (b) 2.5 to 3.0
 - (c) 3.5 to 4.0
 - (d) 0
101. In 3Ø loco, on moving BL key from 'D' to 'OFF' position ____brakes will apply automatically?
- (a) Direct brakes
 - (b) Auto brakes
 - (c) Parking brakes
 - (d) All brakes

Answers:

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

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. Liquified 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% of 578 + 22.5% 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

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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

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- (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

- (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

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- (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

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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

- (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

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

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- (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

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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

(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

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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

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- (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 amended

- (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)

L. DISASTER MANAGEMENT:

1. The derailment coefficient is calculated in which famous formula for derailment investigation
 - (a) Viking's formula
 - (b) Nadal's formula
 - (c) Newton's formula
 - (d) Heisenberg's formula
2. The first one hour after an accident is known as
 - (a) Rescue hour
 - (b) Peak hour
 - (c) Crisis hour
 - (d) Golden hour
3. What is full form of NDMA
 - (a) National disaster management act
 - (b) National disaster movement act
 - (c) Non disaster management activity
 - (d) National disaster management authority
4. Who acts as chairman of NDMA in India
 - (a) President
 - (b) Prime minister
 - (c) Home minister
 - (d) NSA
5. What is the full form of ARME
 - (a) Accident relief medical engineering
 - (b) Accident rail manufacturing expense
 - (c) Alternate railway medical examination
 - (d) Accident relief medical equipment
6. What is full form of SPART
 - (a) Self promoted account review team
 - (b) Self-propelled accident relief train
 - (c) Semi powered accident rescue train
 - (d) Specially powered accident relief train-set
7. When does "C" Class ODC run?
 - (a) In day time only
 - (b) Both in day and night time
 - (c) In night time on special order
 - (d) None of the above
8. Which types of accidents have been classified under classification-A
 - (a) Collision

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- (b) Fire in trains
 - (c) Derailments
 - (d) Averted collision
9. Which of the following is not a part of the standard B class ARTs in Indian Railway?
- (a) Mechanical tool van
 - (b) Electrical and S&T tool van
 - (c) Staff and kitchen van
 - (d) Diesel BD crane
10. What is the recommended beat distance for BG ARTs in each direction?
- (a) 250-300 kms
 - (b) 200-250 kms
 - (c) 350-400 kms
 - (d) 100-150 kms
11. The Indian Railway institute for disaster management is located in?
- (a) Bangalore
 - (b) Mumbai
 - (c) Jamalpur
 - (d) New Delhi
12. The maximum target time for starting an Accident Relief Train in the daytime is ordinarily (assuming ideal ART placement siding with both side exit)
- (a) 15 minutes
 - (b) 30 minutes
 - (c) 45 minutes
 - (d) 60 minutes
13. In case of any accident, Medical relief van shall be dispatched within what time from double exit siding ?
- (a) 10 minutes
 - (b) 15 minutes
 - (c) 25 minutes
 - (d) 20 minutes
14. Commissioner of Railway Safety comes under which ministry?
- (a) Railways
 - (b) Civil Aviation
 - (c) Home Ministry
 - (d) Defence
15. What is target time for turning out ART during night time?
- (a) 45 minutes
 - (b) 30 minutes
 - (c) 40 minutes
 - (d) None of the given options

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16. What is full form of SLI in 140T BD Crane?
- (a) Safe Load Indicator
 - (b) Single Load Indicator
 - (c) Short Load Indicator
 - (d) None of the given options
17. What is the essential component of A Class Accident Relief Train?
- (a) Hydraulic Rescue Device
 - (b) Front-End Loader
 - (c) 140 Ton Crane
 - (d) None of the above
18. Which of the following are true in case of sudden derailment?
- (a) Instant dismounting of wheel from rail
 - (b) Gradual climbing of flange on rail
 - (c) Flange mounting marks are available on rail table
 - (d) None of the given options
19. Which one is not an important T&P item kept in ARTs?
- (a) Hydraulic re-railing equipment
 - (b) Generator
 - (c) Oxy cutting equipment
 - (d) Water tank
20. The maximum distance from the centre of rotation of the tail of the revolving superstructure is called
- (a) Prop base
 - (b) Tail radius
 - (c) Out reach
 - (d) None of the above
21. Which one is not an object of accident enquiry
- (a) To ascertain the cause of accident
 - (b) To fix the responsibility
 - (c) To formulate proposals for preventing recurrence
 - (d) To pay compensation
22. What is the full form of CRS in context to accident enquiry
- (a) Central receipt section
 - (b) Chief railway superintendent
 - (c) Commissioner of railway safety
 - (d) None of the above
23. When an Accident to a train carrying passengers which is attended with _____ and in the opinion of the CRS requires holding of an inquiry by the CRS , shall be deemed to be a
- (a) Loss of life
 - (b) Grievous hurt to a passenger or passengers in the train
 - (c) Damage to railway property, the value of which exceeding 2 crore

- (d) All the above
24. Accidents are classified into how many categories
- (a) ONE
 - (b) TWO
 - (c) THREE
 - (d) FIVE
25. The categories of classification of accidents are from “A” to “R” except
- (a) ‘E’ & ‘I’
 - (b) ‘I’ & ‘O’
 - (c) ‘N’ & ‘K’
 - (d) ‘F’ & ‘G’
26. Accident Derailment of trains are classified in categories
- (a) A1 to A5
 - (b) B1 to B7
 - (c) C1 to C9
 - (d) D1 to D6
27. The siren that has to be given by the station, when an accident takes place at an out-station but main line is clear—ART to be moved
- (a) 02 Long
 - (b) 03 Long
 - (c) 03 Long 01 Short
 - (d) 04 Long
28. The siren that has to be given by the station, when an accident takes place at an out-station, the main line is blocked—ART and ARME to be moved
- (a) 04 Long
 - (b) 03 Long
 - (c) 03 Long 01 Short
 - (d) 04 Long 01 Short
29. An accident will be termed as serious accident when the loss of Railway property is more than__
- (a) 1 Crore
 - (b) 2 Crore
 - (c) 3 Crore
 - (d) 4 Crore
30. What is the working speed at which B-Class ART is supposed to be operated?
- (a) 110 kmph
 - (b) 90 kmph
 - (c) 150 kmph
 - (d) 100 kmph
31. Which of the following makes of Diesel BD cranes are available in Indian Railway?
- (a) Gottwald

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- (b) Cowans Sheldon
 - (c) Both of the above
 - (d) None of the above
32. Periodic overhauling of Gottwald make BD cranes in Indian Railways are being carried out in?
- (a) Jamalpur workshop
 - (b) Golden rock workshop
 - (c) DLW, Varanasi
 - (d) Kacharapara Workshop
33. Periodic overhauling of Cowans Sheldon make BD cranes in Indian Railways are being carried out in?
- (a) Golden rock workshop
 - (b) Parel workshop
 - (c) Kacharapara Workshop
 - (d) Jhansi Workshop
34. What is the purpose of a mock drills in disaster management?
- (a) To review disaster management plans
 - (b) To evaluate the effectiveness of Standard Operating Procedures (SOPs)
 - (c) To identify gaps in resources and communication
 - (d) All of the above
35. Which train is given precedence over all other trains when running towards an accident site?
- (a) Express trains
 - (b) Goods Trains
 - (c) Accident Relief Trains (ARTs)
 - (d) Mail Trains
36. Who is the competent authority to declare an incident a "Railway Disaster" at the zonal level?
- (a) Prime Minister
 - (b) Principal Chief Safety Officer (PCSO)
 - (c) General Manager (GM)
 - (d) Divisional Railway Manager (DRM)
37. What is the purpose of regular mock drills involving ARTs
- (a) To evaluate the performance of the railway staff
 - (b) To test the effectiveness of standard operation procedures (SOPs)
 - (c) To identify shortcomings in resources and communication
 - (d) All of the above
38. What is the main function of 140T breakdown crane at disaster site
- (a) To extinguish fires
 - (b) To provide lighting and power supply
 - (c) Heavy lifting of derailed coaches and locomotives for restoration
 - (d) To transport medical supplies
39. Which one of the following is generally not found in case of sudden derailment?
- (a) Point of Mount (POM)
 - (b) Point of Drop (POD)

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- (c) Both POM and POD
 - (d) None of the given choices is correct answer
40. Fire accidents occurring in a train carrying passengers is classified in which category of accidents?
- (a) A Category
 - (b) B Category
 - (c) C Category
 - (d) D Category
41. The category of accident "Failure of rolling stock" is classified in
- (a) J
 - (b) K
 - (c) L
 - (d) M
42. The siren that has to given by the station, when an accident takes place in the loco shed or traffic yard adjoining the loco shed is
- (a) 2 Long
 - (b) 3 Long
 - (c) 3 Long 1 Short
 - (d) 4 Long 1 Short
43. Which of the following is Permissible Gauge Tolerances on a straight track ?
- (a) + 6 mm & -3 mm
 - (b) + 6 mm & -6 mm
 - (c) + 3 mm & -6 mm
 - (d) + 3 mm & -3 mm
44. Nadal's formula dictates that the ratio of lateral to vertical force is dependent upon following factors
- (a) Train speed and radius of curvature
 - (b) Flange angle and coefficient of friction
 - (c) Wheel gauge and total play
 - (d) Radius of curvature and height of Trains
45. The Disaster Management Act in India was passed in the year
- (a) 2003
 - (b) 2005
 - (c) 2006
 - (d) 2009
46. When operating Hydraulic Re-railing Equipment (HRE) from an ARTs, what is a critical safety precaution
- (a) Placing the jack directly on the coach body for stability
 - (b) Operating at the highest pressure for a faster lift
 - (c) Avoiding direct contact with jack/body and using wooden packing
 - (d) Keeping the jack under load for a prolonged period.

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47. What is a key operational precaution when setting up a 140T crane at an accident site for restoration work?
- (a) Starting lifting operations without preparing the crane first
 - (b) Allowing personnel to remain under the lifted load
 - (c) Carefully checking the load chart to avoid overloading the crane
 - (d) Using wire rope slings with broken strands
48. The maximum permissible speed of Cowans Sheldon (Old design) 140T BD Crane is
- (a) 75 kmph
 - (b) 100 kmph
 - (c) 90 kmph
 - (d) 110 kmph
49. The maximum permissible speed of Cowans Sheldon (New design) 140T BD Crane is
- (a) 75 kmph
 - (b) 100 kmph
 - (c) 90 kmph
 - (d) 110 kmph
50. The maximum permissible speed of High Speed-SPART is
- (a) 100 kmph
 - (b) 110 kmph
 - (c) 95 kmph
 - (d) 105 kmph
51. For what purpose is a load chart used in the operation of a 140T Crane?
- (a) To track the crane's movement
 - (b) To determine the maximum safe working load at different radii
 - (c) To monitor the crane's fuel consumption
 - (d) To manage the crane operator's work schedule
52. Which of the following is an example of medical equipment transported in an ARME?
- (a) Portable jacks
 - (b) Airbags for lifting
 - (c) Defibrillator
 - (d) Gas cutters
53. Assuming all other parameters remaining same, with the increase in rotation radius of Main Jib, Lifting capacity of crane _____
- (a) Increases
 - (b) Decreases
 - (c) Remains same
 - (d) None of These
54. What is maximum permissible running speed of 140 Tonne Gottwald Design Crane (New Model) on Main Line in Indian Railways?
- (a) 90 kmph
 - (b) 100 kmph

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- (c) 110 kmph
 - (d) None of these is correct answer
55. Mechanical Department at Divisional level is directly responsible for which of the following?
- (a) Facilitating medical attention at site
 - (b) Rescue, Relief & Restoration
 - (c) Payment of Compensation
 - (d) Arrangement of alternative trains, routes
56. The Disaster Management plan 2019 issued by the Indian Railways Safety Directorate contains guidelines related to:
- (a) Floods, earthquakes, cyclones, manmade disasters like terrorism etc.
 - (b) Crows management and role of RPF in crowd control
 - (c) Train accidents
 - (d) All of these options
57. Between a loaded rake and empty rake on the same route, which one is at greater risk of derailment provided all other things being equal?
- (a) Loaded Rake
 - (b) Empty Rake
 - (c) No Difference, Equal risk
 - (d) None of these is correct answer
58. How many diesel engines are available in SPART?
- (a) One
 - (b) Two
 - (c) Three
 - (d) Four
59. Type of transmission in SPART/HS-SPART?
- (a) Hydraulic
 - (b) AC-DC
 - (c) Mechanical
 - (d) None of the above
60. The rated Horse power of main engine in High Speed-SPART is?
- (a) 340 HP
 - (b) 290 HP`
 - (c) 430 HP
 - (d) 310 HP
61. Which of the following is full form of NDRF ?
- (a) National Disaster Reaction Force
 - (b) National Disaster Rescue Force
 - (c) National Disaster Response Force
 - (d) National Disaster Relief Force

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62. Full form of SCBA available in ARTs:
- (a) Standardized Chemical Breathing Apparatus
 - (b) Self Contained Breathing Apparatus
 - (c) Self-Cleaning Breathing Apparatus
 - (d) Specialized Combustion Breathing Apparatus
63. The maximum lifting capacity of Auxiliary hoist in 140T BD Crane?
- (a) 35T
 - (b) 25T
 - (c) 30T
 - (d) 40T
64. The Crane superstructure of 140T BD Diesel Crane is carried on:
- (a) Two- Three axles bogies
 - (b) Two- Two axle bogies
 - (c) Three- Two axle bogies
 - (d) Three- Three axle bogies
65. What is the POH periodicity of ART coaches converted from BG Coaches being used in Indian Railways?
- (a) 18 months
 - (b) 36 months
 - (c) 48 months
 - (d) 24 months

Answers:

1 (b), 2 (d), 3 (d), 4 (b), 5 (d), 6 (b), 7 (a), 8 (a), 9 (d), 10 (a), 11 (a), 12 (b), 13 (b), 14 (b), 15 (a), 16 (a), 17 (c), 18 (a), 19 (d), 20 (b), 21 (d), 22 (c), 23 (d), 24 (d), 25 (b), 26 (d), 27 (b), 28 (d), 29 (b), 30 (d), 31 (c), 32 (a), 33 (b), 34 (d), 35 (c), 36 (c), 37 (d), 38 (c), 39 (a), 40 (b), 41 (a), 42 (a), 43 (b), 44 (b), 45 (b), 46 (c), 47 (c), 48 (a), 49 (b), 50 (b), 51 (b), 52 (c), 53 (b), 54 (b), 55 (b), 56 (d), 57 (b), 58 (b), 59 (a), 60 (c), 61 (c), 62 (b), 63 (b), 64 (a), 65 (c).