

MODEL QUESTION BANK OF Mech./O&F Deptt. for CLI Examination

1. Which pressure is adjusted by limiting valve?

- A. F-1 pressure
- B. BP pressure
- C. FP pressure
- D. Synchronization pressure

ans D

2. When emergency brake application is done through A-9 inflasher 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 & buzzerblows
- D. Loco does not come to idle, flasher light is on & buzzer blows

ans A

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

ans C

4. Unit of Air Flow Indicator (AFI) is

- A. Kg/cm²
- B. Pound / inch
- C. Wagon reading
- D. Km/h

ansC

5. Function of Air vacuum proportionate valve is in Dieselloco for

- A. Acceleration
- B. Loco comes to idle
- C. For starting of loco
- D. For synchronization of brake

ans D

6. How many positions setting of C3 W distributor valve has

A. Two position setting

B. One position setting

C. Three position setting

D. No different setting

ans A

7. How many braking position of A-9 valve have..

A. 05 breaking position

B. 04 breaking position

C. 03 breaking position

D. 01 breaking position

ansB

8. How many braking position of SA-9 valve have..

A. 03 position

B. 02 position

C. 05 position

D. 01 position

ansA

9. Air supply for horn is from..

A. MR-1 tank

B. MR-2 tank

C. J filter

D. HS-4

ansA

10. Duplex check valve operates when MR pressure reaches at pressure (kg/cm²)

A. 5 kg/cm²

B. 6 kg/cm²

C. Always open

D. 10 kg/cm²

ans A

11. The standard color of humidity indicator in air dryer is

A. Orange

B. Purple

C. Blue

D. White

ans C

12. 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

ans C

13. 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

ans B

14. 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

ans A

15. How many numbers of positions MU2B valve have

- A. One position
- B. Two positions
- C. Three positions
- D. Four positions

ans B

16. during which stroke inlets valves open

- A. Suction
- B. Compression
- C. Power
- D. Exhaust

ans A

17. During which stroke both valves closed

- A. Suction
- B. Compression
- C. Power
- D. Exhaust

ans B

18. Water pump is driven from.....

- A. Split gear
- B. Cam gear
- C. Extension shaft gear
- D. Main generator gear

ans C

19. Lube oil pump is driven from.....

- A. Split gear
- B. Cam gear
- C. Extension shaft
- D. Main generator gear

ans C

20. 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

ans C

21. GE Governor is operated.....

- A. Mechanically
- B. Hydraulically
- C. Pneumatically
- D. None of these

ans B

22. 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

ans D

23. Hammering sound is coming from engine is dueto.....

- A. Exhaust valve bend

B. Fuel cam worn out

C. X-head roller worn out

D. Any of the above

ans D

24. Smoke is coming from „SMOKE“ hole of cylinder Head indicates.....

A. Injector seal is not proper

B. Over torquing

C. Injector crack

D. Injector not fitted

ans A

25. 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

ans A

26. 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

ans B

27. 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

ans A

28. 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

ansA

29. 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

ans D

30. 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

ans C

31. 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

ans C

32. Which of the following is not the safety item of locomotive?

- A. OST
- B. LWS
- C. Governor
- D. ACP

ans C

33. 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

ans C

34. Which of the following statement is not true?

- A. Comp. Ratio in diesel engine is more than Petrolengine.

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.

AnsD

35. Which of the following is prime mover?

A. Engine

B. Traction Generator

C. Traction Motor

D. None of the above

ans A

36. 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

ans C

37. What is the cause of increase silicon in lube oil

(A) Linear wear

(B) X-head wear

(C) Dust

(D) Water leakage

ans C

38. In scavenging period burnt gases are pushed out by

A. Fresh air

B. By burnt gases

C. By TSC

D. Nothing of these

ans A

39. Engine hunting is due to

A. Rake movement not free

B. Excess fuel pressure

C. Low fuel pressure

D. Nothing of these

ans A

40. Engine given thick black smoke due to

- A. Low BAP
- B. Less fuel oil level
- C. Defective CCE motor
- D. Defective manifold

ans A

41. Out of which safety device, engine comes to idle

- A. OST
- B. LWS
- C. ACP
- D. Low lube oil indication

ans C

42. The device used to transmit loco speed from wheels to the speedometer is called

- A. Tachogenerator
- B. Auxiliary generator
- C. Axle generator
- D. Main Generator

ans C

43. Traction motor load of is transferred on bogie frame through

- A. Main journal
- B. Suspension nose
- C. Axle box
- D. Helical coil spring

ans B

44. 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

ans A

45. 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

ans C

46. Minimum distance between brake block & wheel in release position should be

A. 5 mm

B. 10 mm

C. 15 mm

D. 20 mm

ans B

47. Cracks in the axle are detected by

A. Magna flux test

B. Ultrasonic test

C. Zyglo test

D. Chemical test

ans B

48. The limit of flat spot on loco wheel is

A. 30 mm

B. 40 mm

C. 50 mm

D. 60 mm

ans C

49. What is the hours power of WDP4 & WDG4 locomotive

A. 3000 HP

B. 3500 HP

C. 4000 HP

D. 4500 HP

ans C

50. What is the model designation of WDG4 LOCOMOTIVE?

A. GT46 MAC

B. GT46

C. GT46PAK

D. ALCO 251

ans A

51. What is the model designation of WDP4 LOCOMOTIVE?

A. GT46 MAC

B. GT46

C. GT46PAK

D. ALCO 251

ansC

52. Which type of diesel engine is fitted in GM locomotive

A. Four stroke

B. Three stroke

C. One stroke

D. Two stroke

ans D

53. What is the compression ratio of the GM locomotive

A. 16:1

B. 14:1

C. 13:1

D. 15:1

ans A

54. What is the full speed RPM of the GM locomotive engine

A. 1000 RPM

B. 904 RPM

C. 900 RPM

D. 950 RPM

ans B

55. What is the fuel tank capacity in the GM locomotive

A. 5000 Liters

B. 6000 Liters

C. 4000 Liters

D. 7000 Liters

ans B

56. What is the maximum speed of the WDG 4 locomotive

A. 150 Km/h

B. 140 Km/h

C. 120 Km/h

D. 110 Kmph ans A

57. What is the fuel tank capacity in the GM locomotive

A. 5000 Liters

B. 6000 Liters

C. 4000 Liters

D. 7000 Liters

ans B

58. What is the coolant water capacity in the GM locomotive

A. 1200 Liters

B. 1100 Liters

C. 1045 Liters

D. 1145 Liters

ans C

59. Which type of bogie fitted in the GM locomotive

A. Single suspension

B. Double suspension

C. Triple suspension

D. None of these

ans B

60. In the fuel oil system which type of injectors provided in

the GM locomotive

A. Unit injectors

B. Injectors with HP line

C. Injector with cam

D. None of these

ans A

61. In the two stroke engine the cylinder head of the engine equipped with

A. Inlet & Exhaust valves

B. Only Inlet valves

C. Only Exhaust valves

D. None of these

ans C

62. In the GM locomotive the Turbo charger is driven by

A. Exhaust Gas

B. Gear Train

C. Gear Train & Exhaust gas

D. None of these

ans C

63. In the WDP 4 & WDG4 locomotive engine how much lube oil pumps used

A. One

B. Two

C. Three

D. Four

ans C

64. In the GM locomotive the air compressor is

A. Air cooled

B. Water cooled

C. Oil cooled

D. None of these

ans B

65. In the WDP 4 & WDG 4 locomotive the coolant used in compressor is

A. Engine coolant

B. Compressor coolant

C. Raw water

D. None of these

ANS B

66. Air compressor the lube oil sump capacity is

A. 10 Liters

B. 12 Liters

C. 15 Liters

D. 23 Liters

ANS A

67. Air compressor in the GM locomotive is

A. Single stage

B. Two stage

C. Three stage

D. Four stage

ANS B

68. Which type of bogie is used in GM LOCOMOTIVE?

A. Fabricated bogie

B. Cast steel

C. High tensile cast steel

D. None of these

ANS C

69. In GM locomotive Air brake is controlled by

A. Mechanically

B. Electrically

C. Computer

D. None of these

ANS C

70. Air brake system in WDP4 & WDG4 loco is

A. 28LAV-1

B. 28LV-1

C. CCB-KNORR

D. None of these

ANS C

71. In GM locomotive the first schedule carried out after

- A. One month
- B. Three month
- C. Four month
- D. 15 Days

ANS B

72. Maximum speed of WDP4 locomotive is

- A. 120 Kmph
- B. 160 Kmph
- C. 150 Kmph
- D. 180 Kmph

ANS B

73. TM pinion and bull gear ratio in WDG4 loco is

- A. 17:90
- B. 17:77
- C. 65:18
- D. 90:35

ANS A

74. TM pinion and bull gear ratio in WDP4 loco is

- A. 17:90
- B. 17:77
- C. 18:65
- D. 35:90

ANS B

75. Total weight of WDG4 loco is

- A. 140 Tones
- B. 129 Tones
- C. 160 Tones

D. None of these

ANS B

76. Total weight of WDP4 loco is

A. 115.8 Tones

B. 119.8 Tones

C. 121.8 Tones

D. None of these

ANS A

77. In ECC (Eddy current clutch), clutching of inner and outerdrum is through

A. Mech. Clutch

B. Electrical clutch

C. Magnetic clutch

D. By pulley arrangement

ANSC

78. 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

ans d

79. What is the Fuel oil tank capacity in WDP1 locomotive in litres?

a) 4000

b) 5000

c) 3000

d) 2000

ans c

80. When OPS drops or LLOB trips, the engine will_____.

- a) Raise
- b) Shutdown
- c) Comes to Idle
- d) Hunting ans b

81. Expressor lube oil pump is driven by_____.

- a) Gear
- b) Chain
- c) Motor
- d) Belt ans b

82. The exhaust manifold is connected to _____part of the TSC.

- a) Gas Inlet Casing
- b) Intermediate Casing
- c) Turbine Casing
- d) Blower Casing ans a

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

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

84. How many Power Contactors are available in WDG4 Locomotive?

- a) 7
- b) 9
- c) 8
- d) 0 ans d

85. What is the Lube oil capacity (in litres) in WDP1 locomotives?

a) 760

b) 910

c) 1100

d) 1457

ans a

86. If white smoke is emitting from exhaust chimney, what could be the reason?

A) Water mixed with fuel

b) Governor oil mixed with fuel oil

c) Lube

d) None of these

ans a

87. During one of the following occasions Hot engine alarm indication will get

a) Continuous 8th notch

b) Excess load working

c) Water pump not

d) Full water in working expansion tank

ans c

88.type of speedometer is available on WDG4.

a) Mechanical

b) Radar Sensor

c) Electrical

d) Electronic

ans B

89. The more Oxygenated Air is required for better_____.

a) Control air pressure

b) Combustion of fuel

c) Braking

d) Cooling

ans b

18 Hot engine alarm (HEA) will come at _____degrees centigrade in WDG3A locos.

a) 60

b) 70

c) 90

d) 80

ANS c

90. Electro Pneumatic Governor is located in

a) Expressor room

b) Radiator room

c) Nose compartment

d) Rear compartment

ans C

91. During the MR air pressure efficiency test ____kg /cm² pressure should be created within_____ minutes.

a) 1.0, 7

b) 1.5, 6

c) 0.9, 8

d) 0.7, 5

ans D

92. When there is current difference ofAmps between two 22 traction motors in a group of Traction motors WSR will pick up.

a) 200

b) 125

c) 100

d) 150

ans B

93. Lube oil Filter drum is located in_____.

a) Nose compartment

b) Generator room

c) Engine block

d) Radiator room

ans D

94. Lube oil dipstick gauge of WDG3A is having _____ liters capacity.

a) 400

b) 380

c) 600

d) 500

ans C

95. On what notch the rundown test of ABB Turbo is to be conducted?

a) Idle

b) 2

c) 3

d) 4

ans D

96. Reduction in BP pressure causes _____.

a) Brakes release

b) Brakes slow release

c) Brakes application

d) MR pressure increasing

ans C

97. WDG4 Engine idle RPM

a) 469

b) 369

c) 269

d) 360

ans C

98. The Fuel oil crossover flexible pipe is located in

a) Radiator room

b) Nose compartment

c) Power takeoff end

d) Free end ans C

99. In WDG4 locos Lube oil Cooler is located in _____.

a) Radiator room

b) Expressor room

c) Generator room

d) Under truck ans B

100. Air pressure Cooling coils in WDG4 is located at

a) Under truck

b) Engine block

c) Radiator room

d) Expressor room ans C

101. Lube oil dip stick gauge capacity in WDG4 locos is c _____ liters.

a) 400 b) 550 c) 625 d) 700 ans C

102. The combined unit of Exhauster and Compressor is called

a) Impellor b) Expressor

c) Super charger d) Processor ans B

103. On WDG3A high adhesion bogie the loco body weight is supported on bogie frame through

a) 4 side bearers / load pads

b) centre pivot

c) centre pivot and side

d) side group bearers springs ans A

104. For WDG3A on each truckno of horizontal hydraulic dampers are provided.

- a) 5
 - b) 2
 - c) 8
 - d) 16
- ans B

105.is provided on WDG3A bogie to avoid run out of bogie from chassis.

- a) center pivot
 - b) side bearers
 - c) Shackles
 - d) side stoppers
- ans c

106. On WDG3A each truck is fitted with arrangement of traction motors.

- a) LLR
 - b) LRR
 - c) LRL
 - d) uni directional i.e LLL&RRR
- ans D

107. Whenever A9 is brought to emergency position action taken place in auto flasher system is

- a) DMR de-energise
 - b) BKT will come to braking
 - c) GFOLR will trip
 - d) Flasher light will glow
- ans a

108. Power contactors flutters due to

- a) less magnetism
 - b) Load meter defective
 - c) less control air pressure
 - d) weak batteries
- ans C

109. The following may be used for fast charging of BP on WDG3A.

- a) Release position of A9
 - b) foot pedal
 - c) SP1
 - d) SW1
- ans C

110. In WDG4 loco HP input to Traction motors is

- a) 4000
 - b) 3726
 - c) 3100
 - d) 3900
- ans B

111. In WDG4 loco compressor is cooled by

- a) Nature
 - b) Air
 - c) Oil
 - d) Water
- ANS a

112. In WDG4 turbo is cooled by

- a) Nature
 - b) Air
 - c) Oil
 - d) Water
- ans c

113. In WDG4 power contactors are replaced with

- a) FS contactors
 - b) only relays
 - c) BKT/REV
 - d) DC Link
- ans D

114. In WDG4 traction motors are

- a) DC
 - b) AC
 - c) 50%AC and 50% DC
 - d) Low voltage
- ans B

115. In WDG4 (ECS) isolation switch is havingno of positions.

- a) 1
 - b) 2
 - c) 3
 - d) 4
- ans B

116. While on run if airflow meter shoots up with jerk means

- a) defect
 - b) parting taken place
 - c) spring broken
 - d) moisture in air
- ans B

117.....brake is available only in WDP4.

- a) Computer brake
 - b) vigilance brake
 - c) blended brake
 - d) tread brake
- ans C

118. Blended brake is mixture of

- a) Vacuum +Air
 - b) Formation +Dynamic+ loco
 - c) Formation +Loco
 - d) Dynamic +Loco
- ans B

119. When wheel is floated speed is restrictedkmph.

- a) 25
 - b) 30
 - c) 35
 - d) 40
- ans B

120. In fuel oil systemtype of filters are used.

- a) socks type
 - b) foam type
 - c) mesh type
 - d) paper type
- ans D

121. Compressor of HHP Locomotive is –

- a) Electrical driven,
 - b) Mechanical driven,
- Answer - b

c) Electromagnetic driven, d) None of the above.

122. During engine starting, do not hold the fuel prime/engine start switch (FP/ES) to ENGINE START position for more than –

- a) 20 seconds b) 30 seconds
c) 60 seconds d) None of the above. ANS a

123. Black light test is related to –

- a) Power assembly b) Fuel system, Answer - b
c) Turbo supercharger d) Lube oil system.

124. Purpose of starting fuse is –

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

125. For starting of HHP Locomotive –

- a) Single electric motor is used b) Dual electric motor is used Answer – b
c) Dual air starting motor is used, d) None of the above.

126. Starter motors of HHP Locomotive is connected in –

- a) Series, b) Parallel,
c) Series-parallel d) None of the above. ANS b

127. Starter Motors of HHP Locomotive is –

- a) AC Motor
b) DC Series Motor
c) 3 phase AC Motor
d) None of the above.
- Answer – b

128. Scavenging pump is a –

- a) Reciprocating pump
b) Centrifugal pump
c) Positive displacement with helical gear type pump
d) None of the above.
- Ans c

129. Which type of CBC is fitted in WDG4D Locomotive?

- a) E-type
b) F-type
c) H-type
d) None of the above.
- ANS a

130. Power assembly is consisting of –

- a) Cylinder liner,
b) Cylinder head,
c) Piston, ring, carrier & con rod assembly,
d) All of the above.
- Ansd

131. No. of Radiator fitted in WDP4D Locomotive is –

- a) 1, b) 2, c) 4, d) None of the above.
- ANS b

132. In HHP Locomotive, TSC is fitted in the –

- a) Front end of the engine,
b) Rear end of the engine
c) Front or Rear of the engine,
d) None of the above.
- Ansb

133. In HHP Locomotive mainly which Governor is fitted –

139. To operate sander, air supply is received from –

- a) MR-1 Pressure
- b) MR-2 Pressure
- c) BP Pressure
- d) B.C. Pressure.

Answer - a

140. Modified Water Pump has –

- a) Taper bearing
- b) Ball bearing
- c) Both taper as well as ball bearing
- d) None of the above.

Answer – b

141. How many rollers are fitted in the clutch assembly?

- a) 8
- b) 12
- c) 16
- d) 18.

ANS c

142. Vibration Damper is rotate in each direction about –

- a) 23 Degree
- b) 10 Degree
- c) 180 Degree
- d) 360 Degree.

Answer – b

143. Don't pour _____ in the HHP Loco.

- a) DM Water,
- b) Raw Water,
- c) Distilled Water,
- d) All of the above.

Answer – b

144. Torsional Damper is fitted on the –

- a) Front End of the Engine
- b) Rear End of the Engine
- c) Front and Rear End of the Engine
- d) None of the above.

Ansa

145. How many cylinders are in HHP Loco Engine?

- a) 8 b) 12, Answer - c
c) 16, d) None of the above.

146. Maximum speed of WDG4D Locomotive over Central Railway is –

- a) 100 kmph b) 105 kmph Answer – a
c) 135 kmph d) 160 kmph.

147. WDG4 is a –

- a) Single Cab Loco b) Dual Cab Loco, Answer – a
c) Dual Cab Loco with Disc Brake, d) Dual Cab Loco with Hotel Load

148. Compressor efficiency test is checked with –

- a) 7.14 mm choke b) 7.50 mm choke
c) 7.91 mm choke d) None ANS a

149. In HHP Locomotive Inlet port close at –

- a) 43.5 Degree before BDC, b) 43.5 Degree after BDC, Answer - b
c) 107.5 Degree after TDC d) 67 Degree after BDC.

150. In CCB System, Air supply is received from –

- a) MR-1, b) MR-2, c) MR-4, d) None. ANS b

151. During pre & post lubrication –

- a) Only main bearing and con rod bearing is lubricated,
- b) Only TSC bearing and gear train is lubricated,
- c) Only TSC bearing and gear train is lubricated,
- d) All of the above.

Answer - c

152. In HHP Locomotive, BP Pressure is set at –

- a) $5.0 \pm 0.1 \text{ kg/cm}^2$,
- b) $5.1 \pm 0.1 \text{ kg/cm}^2$,
- c) $5.2 \pm 0.1 \text{ kg/cm}^2$,
- d) None.

ANS a

153. In HHP Locomotive compressor oil to be checked at –

- a) Engine run and idle condition,
- b) Engine shutdown condition,
- c) Engine run and 8th Notch condition,
- d) Any of the above.

Answer - a

154. In HHP Locomotive lube oil level to be checked at –

- a) Engine run and idle condition,
- b) Engine shutdown condition,
- c) Engine run and 8th Notch condition,
- d) Any one of the above.

Answer - a

155. In HHP Locomotive Epicyclic gear train is found in –

- a) Turbocharger, b) Accessory drive gear train,
- c) Camshaft drive gear train, d) None.

Answer - a

156. Upto which notch HHP Locomotive can be raised without load (GF Off condition) –

- a) 4th Notch b) 5th Notch
- c) 6th Notch d) 7th Notch.

ANS a

157. MR Efficiency test is related to –

- a) Power assembly, b) MR Tank,
- c) Turbo Supercharger, d) Compressor.

Answer - d

In HHP Locomotive both side cam gear rotate –

- a) In the same direction,
- c) In same as crankshaft rotation direction,

- b) In the opposite direction, Ans b
- d) None.

158. In HHP Locomotive, what is the relation between crankshaft & camshaft rpm?

- a) Due to two stroke engine, rpm of camshaft = rpm of crankshaft.
- b) Due to two stroke engine, rpm of camshaft = 1/2 of the rpm of crankshaft.
- c) Due to four stroke engine, rpm of camshaft = ½ of the rpm of right crankshaft.
- d) None.

Answer -a

159. Water drain cock is located in –

- a) Accessory room
- c) Under truck at loco right side
- b) Under truck at loco right side
- d) None.

Answer – a

160. Which Oil is filled in HHP Loco Fuel Tank?

- a) High Speed Diesel Oil
- c) Synthetic Diesel Oil
- b) Arctic Diesel Oil
- d) All.

Answer - a

161. What is the height of Rail Guard of HHP Locomotive from Rail Level?

- a) 4½" b) 5½"
c) 6½" d) None ANS a

162. Compressor of HHP Locomotive is a –

- a) Rotary compressor, b) Reciprocating compressor, Answer – b
c) Centrifugal compressor, d) Any one of the above.

163. Distance between two side buffers is –

- a) 1435 mm b) 1676 mm
c) 1956 mm, d) None of these. Answer - c

164. TSC of HHP Locomotive is cooled by –

- a) Water b) Lube oil
c) Air d) Natural Cool. Answer - b

165. How many brake cylinders are fitted in HHP Locomotive?

- a) 4 b) 6 c) 8 d) 16 ANS c

166. Which type of water pump is fitted in HHP Locomotive?

- a) Centrifugal type, b) Reciprocating type, Answer - a
c) Positive displacement type, d) None of these.

167. Oil separator of HHP Locomotive is cleaned in which schedule?

- a) T-30 & above b) T-90 & above Answer – b
c) T-180 & above d) T-Yearly & above.

168. Fuel Tank of HHP Locomotive is –

- a) Detachable b) Non-detachable Answer – a
c) Both detachable & non-detachable, d) None.

169. Which oil is fitted in HHP Locomotive compressor?

- a) RR 460 b) SP 100 c) RR 606 d) SP 57 ANS b

170. Broad gauge tracks W/L board shall be provided at a distance of ----- from level crossing along the track

- a) 400 meters b) 600 meters c) 350 meters d) 500 meters ANSb

171. Which authority form is used for shunting movement?

- A. T/509 B. T/511 C. T/806 D. T/409 ANS c

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

- (A) to warn him to be careful in future.
(B) to afford him an opportunity to defend himself from the accusation.
(C) Where minor penalty is imposed affecting the pensionary benefits of the charged official.
(D) Where services of a railway servant are to be terminated in accordance with the terms of agreement.

173. A retired railway servant may act as defence counsel.

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

(D) in no case.

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

ANS D

- (A) not appreciated by the Controlling Officer.
- (B) of an out-standing nature.
- (C) violating a standing order and made known to him to explain.
- (D) None of the above.

175. Find out among the following the aspect which is violative of principles of natural justice :--ANS C

- (A) the offence alleged to have been committed by railway servant was made known to him.
- (B) the charged official was given an opportunity to produce defencedocuments.
- (C) the witnesses on behalf of D.A. were not allowed to be crossexaminedby the charged employee.
- (D) the I.O. appointed to hold enquiry was a disinterested person.

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

- (A) any other penalty lower than CR only.
- (B) any one of the minor penalties only.
- (C) penalties of 'Removal' & 'Dismissal' also.
- (D) no other penalty hihger or lower than Compulsory Retirement.

ANS c

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

- (A) 15 days
- (B) 45 days
- (C) 60 days
- (D) 180 days

ANS b

178. Where departmental proceedings and criminal proceedings in a Court are runningconcurrently :--

- (A) Departmental proceedings should be finalised earlier to criminal proceedings.
- (B) Departmental proceedings should not be finalised till criminal proceedings are finalised.
- (C) Departmental proceedings should be dropped soon after the initiation of criminal proceedings.
- (D) The Court hearing the criminal case should be advised to pend its proceedings till finalisation of departmental case.

ANS b

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

- (A) Expert witness
- (B) Defence witness
- (C) Prosecution witness

ANS D

- (D) Hostile witness
- (E) Irrelevant witness

180. During re-examination of a witness in the departmental inquiry by in I.O.

- (A) a question to bring out altogether a new evidence can be asked.
- (B) a question to explain certain statements made by him in the earlier cross-examination, can be asked.
- (C) the witness should be asked to tell his story again.
- (D) the witness should be put questions to reiterate his answers given in the examination-in-chief.

ANS b

181. The power to remove a doubt or interpret any of the provisions of RS (D&A) Rules, 1968 rests with :--

- (A) Divisional Railway Manager
- (B) Chief Personnel Officer
- (C) Railway Board
- (D) The President of India

ANS D

182. The document through which the alleged misconduct is communicated to a railway servant advising him to submit explanation, is called :--

- (A) Charge sheet
- (B) Penalty Notice
- (C) Show-Cause Memorandum
- (D) Daily Order Sheet
- (E) None of the above.

ANS A

183. "Revision" under Rule 24 (2) & 24 (3) of RS (D&A) Rules is confined to railway servants who have been imposed:--

- (A) Any one of the MINOR penalties only
- (B) any one of the MAJOR penalties only.
- (C) Any penalty MAJOR or MINOR.
- (D) Penalties of Dismissal, Removal and Compulsory Retirement.

ANS D

184. Where there is no presenting officer nominated, a charged official may present his case during inquiry :--

ANS D

- (A) With the assistance of any person.
- (B) With the assistance of serving railway employee of any railway including Railway Board.
- (C) With the assistance of only the serving railway employee of SC Railway.
- (D) With the assistance of serving or retired railway employee of SC Railway

185. Authority competent to nominate Inquiring Authority to hold enquiry in the manner specified in Rule 9 of D&A Rules against a non-gazetted railway servant is :-

ANS D

- (A) General Manager
- (B) Revising Authority
- (C) An authority to which disciplinary authority is immediately subordinate.
- (D) Disciplinary Authority

186. One of the following is barred from acting as Defence Counsel. Find out.

ANSC

- (A) A serving employee of the same railway to which charged official belongs.
- (B) A retired employee of the same railway to which charged official belongs.
- (C) A serving employee of the same railway to which charged official belongs but on deputation to Ministry of Labour.
- (D) A serving Welfare Inspector.

187. One of the following is not a penalty under DAR. Find out. ANS C

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

188. An official of recognised trade union may assist a charged official during departmental inquiry, if the charged official is :-

ANSC

- (A) a non-gazetted railway servant only
- (B) either of Group-C or Group-D or Group-B only
- (C) a member of any group
- (D) another office-bearer of the same Union only

189. Speaking order means ANSA

- (A) Reasons recorded in support of decision taken by the Disciplinary Authority
- (B) The memorandum communicating the penalty
- (C) The written statement of defense of the charged official
- (D) The report of the Inquiry Officer

190. When signals and communication fails on DL, the authority given to the LP is

_____.

(A) T/B912 (B) T/C912

ans A

(C) T/D912 (D) T/A912

191. The time interval between two trains during signal and communication failure on DL shall be _____ minutes.

(A) 30 (B) 25

(C) 15 (D) 45 ans C

192 The light engine, which is going to open communication, shall proceed with a restricted speed of _____ kmph.

(A) 12-15 (B) 15-10

(C) 15-20 (D) 10-8 and D

193 During TSL working in automatic section the first train proceeding on right line when signal and communication are working shall proceed on _____ authorities.

(A) T/D 912 (B) PLCT+T/A912 ans B

(C) T/C912 (D) T/B 912

194 During TSL working when signals and communication are working the second and sub-sequent train proceeding on right line shall proceed on _____.

(A) Cautiously (B) whistling (C) signal aspects (D) written memo ans C

195 All trains from wrong line during TSL working shall proceed on _____ as ATP.

(A) Written memo (B) caution order (C) cautiously (D) PLCT ans D

196 When train meets with an accident in automatic block system on DL and the adjacent line is obstructed, the adjacent line shall be protected as per _____ rule.

(A) GR 6.06 (B) GR6.12 (C) GR6.09 (D) GR 6.03 ans D

197 In Automatic block system when the train is unable to proceed further due to accident or obstructed or due to the failure of loco, the Guard shall protect the train in rear by placing one detonator at _____ meters and two detonators at _____ meters from the point of obstruction.

(A) 90-180 (B) 120-150 (C) 150-300 (D) 120-180 ans A

198 To stop of a train out of course in automatic block system _____ no. of detonators are placed at _____ meters from the end of platform in direction of the train.

(A) 3-120 (B) 2-180 ans B

(C) 1-120 (D) 4-600

199 In automatic block system to dispatch a relief loco / train into the occupied block section _____ is given as the ATP for the relief loco / train.

(A) T/A 912 (B) T/B 912

ans C

(C) T/C 912 (D) T/D 912

200 In automatic block system Relief loco / train shall proceed with a restricted speed of ____ kmph.

(A) 25/15 (B) 45/25

ans D

(C) 60/30 (D) 15/10

201 When LPs finds an automatic stop signal at ON, after stopping for _____ minutes Day / Night shall proceed with a restricted speed of _____ kmph up to next stop signal or up to the obstruction.

(A) 1/2-10 (B) 2/4-15/8

(C) 5/10-12/8 (D) 3/4-25/10

ans A

202 The automatic stop signal shall not assume OFF aspect unless the line is clear not only up to the next automatic signal but also for an adequate distance of not less than _____ meters.

(A) 240 (B) 150

ans C

(C) 120 (D) 180

203 After passing an automatic signal at ON the LP of the following train hauled by any locomotive shall ensure that a minimum distance of _____

meters is maintained between his train and preceding train.

(A) 240 (B) 150 (C) 120 (D) 180

ans B

204 The minimum equipment of fixed signals in automatic system on SL shall be _____ and _____ signals.

(A) Distant-Home (B) Automatic-Semi automatic

(C) home-LSS (D) Outer- Home

ans B

205 The gate signal in automatic system is identified by _____.

(A) A-Marker (B) P-Marker

(C) G-Marker (D) illuminated A-Marker & G-Marker

ans D

206 When LSS failed on SL automatic block system _____ is the ATP for the train and the first train, which shall go with a restricted speed of _____ kmph.

(A) PLCT-25 (B) T/602-15 ans A

(C) T/A602-45 (D) none of the above

207 When LSS on SL failed _____ is the authority to pass all other intervening signals at ON.

(A) T/A 912 (B) T/D-912 ansA

(C) T/C912 (D) T/P 912

208. If LP enters block section without authority and subsequently sends his Asst LP with a memo to SM in rear / SM in advance that SM shall give _____ and _____ respectively.

(A) Signals-Signals (B) PLCT-Caution order ans B

(C) Memo-signals (D) none of the above

209 When explosion sound is heard by SM and location is not known and light engine could not be sent for testing purpose, the whole train shall be allowed to go with a restricted speed of _____ kmph.

(A) 15 (B) 10 ans B

(C) 25 (D) 40

210 In case of fire accident in a passenger train, the first objective to be achieved is to _____.

(A) Clear the section (B) detach the vehicle

(C) Safety of the passengers (D) ask for relief ans C

211 The light engine which is coming on T/609 to pick up the second portion shall come with a restricted speed of _____ kmph.

(A) 25 (B) 15 (C) 40 (D) 50 ansC

212 When vehicles are running away on single line and on wrong line double line _____ bell code to be given by SM.

(A) 6 pause 4 (B) 5 pause 2 ans A

(C) 8 pause 2 (D) 4 pauses 2

213 One important essential required for automatic block system is that it shall be provided with continuous _____ or _____.

(A) track-signals (B) track circuit-axle counters

(C) points-signals (D) none of the above ans B

214 The line between the block stations, when required, be divided into series of _____ sections.

(A) Signaling (B) track ans A

(C) Continuous (D) none of the above

215 Fully automatic stop signal is identified by _____ board.

(A) S- marker (B) illuminated A-marker

(C) A-Marker (D) none of the above ans C

216 Semi-automatic stop signal is identified by _____ light.

(A) S- marker (B) Illuminated A-Marker (C)A-Marker (D) none of the above ansB

217 If enquiry is made for more than one train and reply is also received, the second train can be allowed to go with a restricted speed of _____ kmph.

(A) 25/10 (B) 15/8 ansA

(C) 10/5 (D) none of the above

218 After block telephone, _____ telephone is the authorized means of communication in absolute block system.

(A) VHF (B) Control

(C) Walkie-Talkie (D) none of the above ansB

219 Light engine, which is going for opening communication, shall proceed with a restricted speed of _____ kmph.

(A) 25/15 (B) 15/10 ansB

(C) 20/8 (D) none of the above

220 When there is even flow of trains, enquiry and reply messages are sent through _____.

(A) Train LPs/guards (B) SS (C) Points man (D) none of the above ansA

221 On T/E 602 _____ number of trains enquiry can be made.

(A) More than one (B) less than one

(C) One (D) none of the above

ansA

222 Form No. of UP/DN CLCT is _____.

(A) T/G 602/T/H 602 (B) T/A602/T/I 609

ansA

(C) T/H 602/T/H 611 (D) none of the above

223 When motor trolley / tower car is sent for opening communication, it shall be accompanied by _____.

(A) PWI/TI (B) CPWI/SI

ansC

(C) Guard/ASM (D) none of the above

224 When goods train is dispatched on T/J 602 the speed shall not exceed _____ kmph.

(A) 25/8 (B) 45/25

ansC

(C) 15/8 (D) none of the above

225 During TSL working, the speed of first train shall be ____ kmph.

(A) 25 (B) 50

(C) 15 (D) none of the above

ansA

226 During TSL working the speed of second and subsequent trains

shall be _____.

(A) Booked speed (B) 25 KMPH

ansA

(C) 15 KMPH (D) 45 KMPH

227 _____ is the authority for trains working on TSL working.

(A) T/A 602 (B) T/D 602

(C) T/C 602 (D) T/B 602

ansB

228 During TSL working the block instrument shall be kept and

locked in _____ position.

(A) TOL (B) SOL

(C) POL (D) none of the above

ansA

229 When „Lurch“ is reported by LP, the SM shall issue caution order restricting the speed to _____ kmph.

(A) 10 (B) 15

(C) 8 (D) none of the above ansC

230 When „Lurch“ is reported on DL by LP, SM shall give caution order for adjacent line trains to proceed with _____.

(A) Special caution order (B) memo (C) PWI

(D) none of the above ans A

231 Rail fracture of less than 30 mm, the speed of first train shall be _____ kmph, the speed of second and subsequent train shall be _____ kmph.

(A) 10-15 (B) 25-8 ans A

(C) 15-40 (D) none of the above

232 Rail fracture of more than 30 mm or multiple fractures, certification shall be given by _____ and above rank.

(A) DEN (B) AEN ans C

(C) PWI (D) none of the above

233 During TIC on DL _____ is the ATP authorizing the LP to proceed with a restricted speed of _____ kmph.

(A) T/C 602-25/10 (B) T/D 609-15/8 ans A

(C) T/A 611-10/8 (D) none of the above

234 Light engine which is going to open communication shall proceed on _____ authority.

(A) T/B 602 (B) T/C 609

(C) T/D 611 (D) none of the above ansB

235 When enquiry is made for more than one train _____ authorities are required for the light engine which is going to open communication.

(A) T/C 603+T/D611 (B) T/B 602+T/E 602

(C) T/A 602+T/G 645 (D) none of the above ans B

236 When trains are dealt on T/C 602, the time interval between two trains shall be _____ minutes.

(A) 60 (B) 30

ans B

(C) 45 (D) none of the above

237 During TIC on SL / DL and TSL working except _____ signal, all other signals can be taken OFF.

(A) FSS (B) Starter

ans C

(C) LSS (D) none of the above

238 After opening the communication, the train speed shall be _____.

(A) Booked speed (B) MPS

ans A

(C) Cautious (D) none of the above

239 After opening communication _____ is ATP for the light engine to come back.

(A) T/G 602/T/H 602 (B) T/A602/T/I 609

(C) T/H 602/T/H 611 (D) none of the above

ans A

240 For the purpose of shunting the points, which are not protected by signals, they must be locked by _____ or by _____ method.

(A) Electrical-electronic

(B) padlocking-clamping

(C) mechanical-electrical

(D) none of the above

ans B

241 While performing shunting with passenger running trains, the shunting engine or train engine with or without slip coaches, before coming on to the formation it should be stopped _____ meters before the formation.

(A) 45 (B) 20

ans D

(C) 45 (D) 30

242 To receive a train on to an obstructed line, the LP shall be given _____ authority where there is no calling ON signal and signal post telephone.

(A) T/369.3(b) (B) T/509

ans B

(C) T/512 (D) T/511

243 While received a train on obstructed line, SM shall arrange to post one competent Railway servant to show _____ hand signal from _____ meters before the obstruction.

(A) Red-30 (B) green-35

ans C

(C) stop-45 (D) none of the above

244 To dispatch a train from unsignalled line where tangible authority is not given as ATP, _____ authority should be given.

(A) T/511+PHS+ATP (B) T/512

ans A

(C) T/409 (D) none of the above

245 To start a train from a station having common starter signal, in addition to ATP _____ authority should be given.

(A) T/512 (B) T/511

ans A

(C) T/409 (D) T/509

246 _____ Gradient is considered as dangerous for shunting roller bearing wagon and _____ gradient for non roller bearing wagons.

(A) 1 in 400-1 in 260

ans A

(B) 1 in 100-1 in 150

(C) 1 in 300- 1 in 450

(D) none of the above

247 When 10 BOX wagons are shunted having Transition Couplers, the shunting impact speed should not exceed kmph.

(A) 10-15 (B) 2-3

(C) 20-25 (D) none of the above

ans B

248 Maximum Hand shunting speed is _____ kmph.

(A) 10 (B) 15

(C) 5 (D) none of the above

ans C

249 The maximum speed of TTM is _____ kmph.

(A) 15 (B) 40

(C) 25 (D) none of the above

ans B

250 TTM is permitted to work in the block section only during _____.

(A) Day (B) Night

ans C

(C) Line block (D) none of the above

251 NIL caution order form no. is _____.

(A) T/A 409 (B) T/409

(C) T/512 (D) none of the above

ans A

252 Caution order form no. is _____.

(A) T/A 409 (B) T/409

(C) T/512 (D) none of the above

ansA

253 All existing caution order shall be brought forwarded by SM on every _____.

(A) Night (B) Day

(C) mid night (D) none of the above

ans B

254 On completion of caution order book, it shall be preserved for a period of _____.

(A) 12 months (B) 15 months

(C) 6 months (D) 18 months

ans A

255 As per G&SR control of shunting is done through _____,
_____ and _____.

(A) detonating-flare signals

(B) visible signals

(C) Fixed signals, hand signals-visible instructions

(D) none of the above

ans C

256 For shunting purpose _____, _____ and _____ signals are not to be used.

(A) starter, Warner-distant

(B) outer, home-LSS

(C) Calling on, co-acting-distant

(D) none of the above

ans B

257 While shunting wagons containing explosives, the supervision for shunting shall be done by _____.

(A) Guard (B) SS

(C) Points man (D) none of the above

ans B

258 While backing a full train from one line to another via main line the shunting supervision is done by _____.

(A) Guard (B) SS

(C) Points man (D) none of the above

ans B

259 Shunting speed of explosive and POL products shall be _____ kmph.

(A) 10 (B) 5

(C) 8 (D) none of the above

ans C

260 While at a station, the LP is to obey _____ orders.

(A) CLI (B) SM

(C) GUARD+SM (D) none of the above

ansC

261 Normally, the material train shall be ordered by _____ time only.

(A) Night (B) Day

(C) summer (D) none of the above

ansB

262 Material train shall be ordered to work with the permission of _____.

(A) DME (B) DSO

(C) DRM (D) none of the above

ansC

263 All cut off angle cocks must be in _____ position except front side of loco and rear side of LV to ensure _____.

(A) closed-open

(B) open-closed

(C) isolate-open

(D) none of the above

ansB

264 Empty / Load handle shall be kept in load position when the gross load is above _____ tones.

(A) 45.5 (B) 44.5

(C) 42.5 (D) none of the above

ansC

265 DV isolating handle in vertical position indicates DV is in _____ position.

(A) Working (B) isolate

(C) running (D) none of the above

ansA

266 DV isolating handle in horizontal position indicates DV is in _____ position.

(A) Working (B) isolate

(C) running (D) none of the above

ansA

267 Reduction in BP pressure causes _____.

(A) Brake binding

(B) wheel skidding

(C) Brake application

(D) none of the above

ansC

268 Creation of BP pressure causes _____.

(A) Brake release

(B) wheel skidding

(C) Brake binding

(D) none of the above

ansA

269 The following may be used for fast charging of BP on WDG3A.

a) Release position of A9 b) foot pedal

c) SP1 d) SW1

ansC

270 Whenever BP pressure drops belowkg/cm² other than A9 operation auto flasher will come in to action.

a) 4.1 b) 4.4

c) 4.3 d) 4.5

ansB

271 In twin beam head lightsvolts halogen lamps are used.

a) 72 b) 32

c) 24 d) 20

ansC

272 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 change over b) By changing to switch on DC-DC other control converter stand

c) by replacing bulb d) none

ans C

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

a) Weak DMR b) TH & selector interlocks defective

c) Self interlocks defective d) PCS knocked out

ans B

274 In MCBG loco actuator /sensor unit is located at

a) inside engine block b) excitation panel

c) LP cab d) existing location of governor

ans D

275 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 keyswitch

c) Power switch d) GFOLR reset button

ans A

276 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

ans A

277 The conventional electronic type excitation system is replaced within new loco's

a) Microprocessor b) static type controlled

c) shunt type d) self excitation ans A

278 In WDG4 loco HP input to Traction motors is

a) 4000 b) 3726

c) 3100 d) 3900 ans B

279 In WDG4 power contactors are replaced with

a) FS contactors b) only relays

c) BKT/REV d) DC Link ans D

280 In WDG4 traction motors are

a) DC b) AC

c) 50%AC and 50% DC d) Low voltage ans B

281 In WDG4 (ECS) isolation switch is havingno of positions.

a) 1 b) 2

c) 3 d) 4 ans B

282 While on run if airflow meter shoots up with jerk means

a) defect b) parting taken place

c) spring broken d) moisture in air ans B

283 For quick charging of BP in WDG4is used.

a) SP1/SP2 b) SW1/SW2

c) Foot pedal d) A9 (auto brake) ans D

284 In WDG4 hot oil detector is set at....degrees centigrade.

a) 100 b) 126

c) 200 d) 124 ans B

285 If GF contactor is fluttering after taking II transition check

a) GF relay b) P2

c) S1 d) P32 ans D

286 GR protects from

a) Nothing b) earth fault

c) hot engine d) melting of grids

ans B

287 OPS2 function is

a) to when OPS1 is b) To watch OPS1 defective

c) To watch fuel oil d) to safe guard pressure engine from low lube oil pressure on higher notches

ans D

288 If SAR coil is open circuited during cranking

a) GR trips b) nothing will happen

c) OSTA trips d) Throttle will not respond

ans A

289 If CK1 bridge interlock defecttrouble.

a) not cranking b) not holding

c) ck1/ck2 fluttering d) not firing

ans A

290 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

ans B

291 While working on higher notches with full load if B.A.P. is repeatedly dropping and raising is called

a) Sneezing b) Hunting

c) Surging d) None

ans C

292 In WDM2 GE governor loco, when stop switch is pressedwill be energised.

a) ESR4 b) Clutch coil

c) stabilising coil d) SAR coil

ans C

293 On WDM2 if engine not crankingpower contactor NCI to be checked.

a) P22/S1 b) P21/S1

c) P22/S21 d) P22/S31

ans A

294 TDR in WDM3a (cranking circuit) is set at b

a) 1.5 minutes b) 1.5seconds

c) 2seconds d) 1second

ans B

295 During cranking if engine not holding may be due to

a) CK1 bridge interlock b) MUSD

c) FPB d) OPS

ans D

296 FS21 and FS22 coils get supply through these breaker

a) FPB b) MFPB

c) CCEB d) MCB

ans B

297Stabilising and clutch coil get supply through these breakers.

a) FPB b) CCEB

c) MCB d) MFPB

ans D

298 Dynamic brake grid motor is a –

a) DC Motor, b) Single phase AC motor,

Ans a

c) Three phase AC motor, d) None of these.

299. According to RDSO Specification, Radiator Core Leakage testing done at –

a) 20 psi pressure, b) 50 psi pressure,

Ans c

c) 75 psi pressure, d) 90 psi pressure.

300. To measure the speed of HHP Locomotive _____ is used –

a) Axle generator, b) Pulse generator, c) Radar, d) None of these.

Ansc

301. In HHP Loco to create crankcase vacuum –

a) Oil separator & educator tube is fitted,

b) CCM is fitted,

Ansa

c) Exhauster is fitted,

d) None.

302. How many ETP are fitted in HHP Locomotive?
a) 1, b) 2, c) 3, d) 4. Ans b
303. The internal parts of injector is cooled and lubricated by –
a) Fuel oil, b) Lube oil, c) Cooling water, d) None of these. Ans a
304. In HHP Locomotive Left side rocker arm are used to operate –
a) Inlet valve, b) Exhaust valve, c) Injector, d) None of these. Ans b
305. Fuel oil secondary filter is changed at –
a) 60 days, b) 90 days, c) 180 days, d) None of these. Ansb
306. Fuel oil primary filter is filtered up to –
a) 600 μ , b) 13 μ , c) 02 μ , d) None of these. Ans b
307. Fuel oil suction strainer is filtered up to –
a) 600 μ , b) 13 μ , c) 02 μ , d) None of these. Ans a
308. Fuel oil secondary filter is filtered up to –
a) 600 μ , b) 13 μ , c) 02 μ , d) None of these. Ansc
309. Minimum lube oil pressure of HHP Locomotive at idle is –
a) 8-12 psi, b) 25-29 psi, c) 20-25 psi, d) 125 psi. Ans a
310. In HHP Locomotive hand cranking arrangement is provided on the –
a) Left rear side of the engine, b) Right rear side of the engine,
c) Both side, rear end of the engine, d) None of these. Ans c
311. Low lube oil shutdown by the Governor is also initiated by the –
a) HOD (Hot Oil Detector), b) EPD low cooling water portion,
c) EPD crankcase pressure portion, d) All of these. Ans d
312. In 710G3B Engine maximum permissible temperature difference between lube oil and water is –
a) 10 $^{\circ}$ c, b) 11.1 $^{\circ}$ c, c) 16 $^{\circ}$ c, d) None of these. Ans b
313. No. 1 idler gear to stub shaft minimum clearance is –

a) 0.005", b) 0.008", c) 0.017", d) None of these. Ansa

314. Lube oil pressure sensing pipe lines are provided in the –

- a) Left bank top deck cover, b) Right bank top deck cover,
c) Inside the crankcase, d) Inside the oil pan. Answer - b

315. In HHP Locomotive, Lube oil strainer box is filled up with lube oil within –

- a) 30 second, b) 45 second, c) 60 seconds, d) 75 second. Ansb

316. In spectrographic analysis of engine lube oil normal range of Aluminum (Al) is –

- a) 0 – 20 ppm, b) 0 – 15 ppm, c) 0 – 10 ppm, d) 0 – 05 ppm. Ansd

317. Normal TSC rpm of 4500 hp HHP Locomotive is –

- a) 15000 – 20000 rpm, b) 18500 – 21500 rpm, Ansc
c) 18500 – 25000 rpm, d) 18500 – 20000 rpm

318. What is the low idle RPM of the WDP4D Locomotive engine?

- a) 200, b) 269, c) 350, d) 904 Ansa

319. What is the height of cattle guard of HHP Locomotive from rail level?

- a) 41/2", b) 51/2", c) 61/2", d) None of these. Ansc

320. How many after coolers are fitted in HHP Locomotive?

- a) 1, b) 2, c) 4, d) None of these. Ansb

321. What is the delivery rate of soak pump in HHP engine?

- a) 27 LPM, b) 57 LPM, c) 75 LPM, d) None of these. Ansb

323. Weight of WDG4D Locomotive is –

- a) 126 T, b) 123 T, c) 121.2 T, d) 130.2 T. Ansd

324. Which oil is fitted in HHP Locomotive compressor?

- a) RR 460, b) SP 100, c) RR 606, d) SP 57. Ansb

325. POP Test is related to –

- a) Power assembly,

b) Fuel system, Ans b

c) Turbo supercharger,

d) Lube oil system.

326. No. of teeth in No. 1 idler Gear is –

a) 58, b) 64, c) 69, d) 79. Ans b

327. In HHP Locomotive compressor is cooled by –

a) Water, b) Lube oil, c) Air, d) Natural cool. Ansa

328. Pre-lubrication is related to –

a) Power assembly,

b) Fuel system, Ans d

c) Turbo supercharger,

d) Lube oil system.

329. Crush height is measured by –

a) Vernier caliper,

b) Outside micrometer, Ansc

c) Filler gauge,

d) Height gauge.

330. 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 these. Ans A

331. Torque value of Exhaust manifold to expansion joint bolts is –

a) 50 ft-lbs, b) 75 ft-lbs, c) 80 ft-lbs, d) 190 ft-lbs. Ans c

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

a) Internal water leakage,

b) inefficient air filtration, Ans d

c) cylinder liner wear,

d) bush & bearing wear.

333. Kinematic viscosity is checked at –

a) 40°C temp, b) 100°C temp, c) 40°F temp, d) both a & b.

Ans d

334. Unit of Kinematic viscosity is –

a) CST, b) UST, c) MST, d) PPM.

Ansa

335. In HHP Locomotive compressor lube oil pump is –

a) Belt driven,

b) Gear driven,

Ans b

c) Chain and sprocket driven,

d) All of these.

336 What is the idle notch RPM of the WDP4D Locomotive engine?

a) 269, b) 904, c) 954, d) 1050.

Ans a

337. How many marks are in HHP Loco Compressor oil dipstick (modified) gauge?

a) 2, b) 3, c) 4, d) None of these.

Ansb

338. Off load condition TSC is driven up to _____ through gear train.

a) 5th Notch, b) 6th Notch, c) 7th Notch, d) 8th Notch.

Ansd

339. Which control system is used in HHP Locomotive?

a) EMD Control System,

b) Medha Control System,

Ans d

c) Siemens Control System,

d) All.

340. Shot peening process is done ins piston ring to improve –

a) Fatigue strength,

b) Tensile strength,

Ans a

c) Compressive strength,

d) None of the above.

341. In MEDHA control system, during pre-lubrication TLPM run for –

a) 120 seconds, b) 900 seconds,

c) 2100 seconds, d) None of these.

Ansb

342. Gear case oil capacity of WDP4D Locomotive is –

a) 7.5 ltrs, b) 8.5 ltrs, c) 9.5 ltrs, d) 9.8 ltrs.

Ans b

343. Gear case oil capacity of WDG4D Loco is –

a) 7.5 ltrs, b) 8.5 ltrs, c) 9.5 ltrs, d) 9.8 ltrs.

Ansa

344. In HHP Locomotive value of cylinder head valve seat angle is –

a) 30°-30°15′,

b) 45°-45°15′,

Ansa

c) 60°-60°15′,

d) None of the above.

345. POP Test is conducted to –

a) Check the performance of injector.

b) Check the performance of TSC.

Ansa

c) Check the performance of lash adjuster.

d) Check the performance of air dryer.

346. Water leakage from air box drain pipe indicates –

a) Water inlet tube may be cracked.

b) Cylinder head / liner may be cracked.

Ans d

c) After cooler tube may be punctured.

d) All of the above.

347. VCD Cycle consists of –

a) T0 – Vigilance cycle.

b) T1 & T2 – Warning cycle.

Ans d

c) T3 & T4 – Penalty brake cycle & Penalty brake reset.

d) All of the above.

348. Minimum lube oil level of HHP Loco compressor is –

a) 5 ltrs, b) 6 ltrs, c) 8 ltrs, d) 9.8 ltrs.

Ans b

349. T0 – VCD cycle is called –

a) Vigilance cycle,

b) Warning cycle,

Ans a

c) Penalty brake cycle,

d) All of these.

350. Horsepower of WDG4G loco is ?

a) 4000 b)4500 c)6000 d)5000

Ans B

351. Maximum speed of WDG4G loco is?

a) 90 b) 100 c)110 d)112

Ans B

352. Fuel Tank capacity of WDG4G is ?

a) 500L b)4000L c)6000L d)8000L

Ans C

353. Which Type of Braking system is used in GE loco?

a) IRAB-1 b)28LAV-1

ans D

c)KNORR d)Electronic Air brake/Fast air brake

354. How much less emission does GE loco produce in comparison with ALCO loco?

a) 40% b)50% c)60% d)30%

ans B

355. Which type of governor is installed in GE loco?

a)WW b)EH c)MCBG d)not provided

ans D

356. Parking brakes are provided in which type of loco ?

a) WDG3A b) WDG4 c) WDP4D d) WDG4G/6G Ans D

357. What should be the position of MODE switch during changing of loco cab of WDG4G?

a) LEAD b) TRAIL c) TEST d) NO change in position Ans D

358. What should be the position of AUTO brake and Independent Brake during loco cab changing of WDG4G?

a) A9 – FS, SA9-Applly b) A9 –FS, SA9 -release
c) A9 –run, SA9- Release d) A9- Run, SA9-apply Ans D

359. What should be position of EC switch during starting of WDG4G from CAB-1?

a) off in Cab1, Isolate in Cab 2 b) Run in Cab1, Isolate in Cab 2
c) Isolate in Cab1, Off in Cab 2 d) Isolate in Cab1, Isolate in Cab2 Ans C

360. To start a GE for how second Start Push Button has to be pressed?

a) 60s b) 2-3s c) Till Engine starts d) 180s Ans B

361. On which wheels parking brakes apply in GE loco?

a) 1-2-3-4 b) 1-5-8-12 c) 1-5-7-11 d) 2-4-8-12 Ans B

362. Full form of CIO?

a) Computer input output b) Compressor input output
c) Consolidated input output d) none of the above Ans C

363. Time duration for VCD Penalty brake in GE loco?

a) 60+8+8s b) 60+8+10s c) 60+10+10s d) 60+17+17s Ans C

364. What should be the minimum battery voltage for starting of WDG4G ?

a) 60V b) 55V c) 72V d) 64V Ans B

365. What should the position of EC switch in WDG4G loco in running condition from CAB-2?

a) Run in Cab1, Run in Cab 2 b) Run in Cab 1, OFF in cab 2
c) Isolate in CAB1, Run in Cab2 d) OFF in Cab1, Run in Cab2 Ans D

366. How to recover VCD penalty brake application in GE loco?

a) press VCD reset button after 35s of alerter off

b) Press VCD reset button after speed of Loco becomes zero

c) Press VCD reset button after putting reversal in neutral position

d) Putting A9 at FS for 34s then set it at Run.

Ans D

367. Which row of circuit breakers should be recycled when GE loco fails to start?

a) 3rd row b) 2nd row c) 1st row d) 4th row

ans D

368. Which of Circuit breakers should be recycled when MR & BP pressure not built up in GE loco?

a) 3rd row b) 1st row c) 4th row d) 2nd row

ans A

369. In GE loco when is back up valve is used?

a) when loco failed b) MR&BP pressure becomes zero

c) Throttle not responding

d) electronic air braking system failed

ans D

370. In GE loco if VCD alerter not acknowledged in back up mode operation what will happen?

a) Penalty brake will be applied by VCD

b) LOCO will shutdown

c) Throttle will not respond

d) nothing will happen

Ans D

371. What will the maximum speed of GE loco in back up mode?

a) 20kmph b) 10kmph c) 30kmph d) 100kmph

Ans B

372. How many TSC are there in WDG6G loco?

a) 2 b) 0 c) 1 d) 3

Ans A

373. How many TSC are there in WDG4G loco?

a) 2 b) 0 c) 1 d) 3

ANs C

374. 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.

Ans D

