Multiple Choice Question Bank for JE/DSL-Mechanical (against 25% Quota) / DLS/MLY

1) Type of engine in WDG4/WDP4 locomotive is (b)
a) SI – 2 Stroke engine b) CI – 4 Stroke engine
b) CI – 2 Stroke engine d) SI – 4 Stroke engine

2) Type of Transmission system in WDG4D locomotive is (d)
a) DC – AC b) AC – DC c) DC – DC d) AC – AC

3) If AGFB tripped in WDP4/WDG4 locos (c)
a) Battery will discharge b)Load meter will not respond c) Both a and b
d)Engine will shut down

4) Oil lubricated TM gear case is provided in (d)
a) WDM 2 b) WDM 3D c) WDG 3A d) WDP 4

5) Side load pads are provided in this type of under truck (b)
a) Tri mount bogie b) Fabricated bogie c) both b and d d) HTSC bogie

6) How to reset the VCD penalty brakes in Alco locos (c)
a)Bring TH to idle, Reverser-F/R b)Reset after 35 sec-after Extinguishing of LED
c)Both a and b d)None

7) In WDG4 locomotive while EOT, L/T switch should be kept in (d)
a) Lead b) Trail c) Helper d) Test

8) Number of Brake blocks in HHP locomotive (c)
a) 4 b) 8 c) 12 d) 24

9) LLOB is provided in---------- Governor Loco (c)
a) MCBG b) GE c) Wood ward d) None

10) Eddy current clutch is located in (d)
a) Nose compartment b) Control compartment
c) Expresser room d) Radiator room

11) ERF should be put ON when (d)
a) ECC is defective b) R1 & R2 defective
c) TS-1&TS-2 Defective d) Both b and c

12) If radiator fan is not working during continuous hot engine alarm switch ON (a)
a) ERF b) LWS c) DMR d) TR

13) In M.U. operation if trailing loco ¾" coc alone kept in open position (d)
a)BP will not destroy in any position b)BP will destroy only in emergency position

c)Loco brakes will not apply d) BP will not create to 5 kg/cm2

14) Engine should not be cranked if it is shut down for more than (c)
a) 24 hrs. b) 36 hrs. c) 48 hrs. d) 32 hrs.

15) In Alco loco Lube oil filter is located in (d)
a) Nose compartment b) Compressor room c) Engine room d) Radiator room

16) If MCBG power breaker is in OFF position during cranking engine will (b)
a) not Crank b) not Fire c) not Hold d) a and b

17) In WDG4 loco LLOB is located in (a)
a) Accessories room b) Compressor room c) Engine power take off end d)ECC3

18) In WDP4/WDG4 if GR (power) trips continuously three times within 10 minutes (a)
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

19) In WDP4/WDG4 loco if LLOB is in tripped position during cranking engine will (d)
a) Crank b) Not Fire c) Not hold d) Not crank

20) In WDP4/WDG4 loco defective speed sensor should be isolated if (a)
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

21) In WDP4/WDG4 banker loco working CS, L/T switch should be kept in (c)
a)Lead b)Trail c)HLPR d)Test

22) In WDG 4 if false locked wheel indication is experienced (a)
a) Isolate defective sensor b)Isolate defective truck
c)Isolate defective TM d)Fail the loco

23) In WDP4/WDG4 dead loco for quick release of loco brakes open one side (d)
a) MR equalizing cock b)BC equalizing cock
c)BP equalizing pipe d)Both a & b

24) In WDP4/WDG4 banker loco working control stand A9 should be kept in (a)
a) FS position b)Run positionc)Release position d)Emergency position

25) Oil visibility in bye pass sight glass indicates that (b)
a)Primary filter is choked. b)Spin on filter choked.
c)Lube oil filter choked. d)Lube oil strainer choked.

26) In WDP4/WDG4 loco choking of fuel oil primary filter is indicated by (a)
a)Filter condition gauge. b)Oil visibility in bye pass sight glass.
c)Both A & B d)Oil visibility in sight glass near to engine block

27) In WDP4/WDG4 Loco when lube oil temperature exceeds 124°C (d)

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

28) In WDP4/WDG4 loco if water pressure is less (d)
a)LLOB trips b)Low water pressure button will trip
c)Crank case pressure button will trip d)Both a and b

29) In WDP4/WDG4 loco when PCS is knocked out (a)
a)MAB breaker should be recycled b)TCC breaker should be recycled
c)Air drier breaker d)Both a and b

30) In WDP4 /WDG4 loco before conducting air brake self test (a)
a)Recycle MAB b)Recycle TCC1 and TCC2
c)Recycle Air drier breaker. d)Both a & b

31) In WDP4/WDG4 loco engine should not be cranked when (b)
a)Low water button is tripped b)crank case pressure button is tripped
c)LLOB is in tripped d)OSTA is tripped

32) In WDP4/WDG4 loco load meter will not respond if (c)
a) GFB trips b) AGFB trips c) Both a & b d) MAB trips

33) In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle (c)
a)Isolate the defective TM b)Isolate the defective speed sensor
c)Fail the loco immediately d)Isolate the defective truck

34) In WDP4/WDG4 loco while conducting BP leakage test L/T switch should be kept in (d)
a)Lead b)Trail c)Helper d)Test

35) Location of Battery Knife Switch in WDG4 Loco is (d)
a)Nose Compartment b)In Accessories room
c)In LP's cab d)Loco Left Side Foot Plate

36) In WDP4/WDG4 loco while conducting air brake self test in working control stand (c)

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

37) In WDP4/WDG4 loco while conducting BP leakage test L/T switch should be kept in (c)
a)Lead position b)Trail position c)Test position d)Helper

38) If FOP is dropping due to filter choked (b)
a)By pass secondary filter b) By pass primary filter
c) Both a & B d) Dummy FIP

39) In Alco loco fuel pump motor is located in (c)

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

40) Control air pressure is adjusted by (d)
a) A9 Feed valve b)F1 selector valve c)NS 16 governor d) Limiting valve

41) If inlet valve of HP cylinder is struck up in closed position (b)
a)MR safety valve will blow b)Inter cooler safety valve will blow
c)Auto drain valve will blow d)Both a and b

42) While working twin pipe air brake train if BP metallic pipe is damaged (a)
a) By passing to be done b) Work with FP alone
c) Detach the coach after clearing section d)Both b and c

43) In Air brake passenger train if FP metal pipe is damaged (a)
a) Work with single pipe b) Work further bypassing the coach
c)Both a and b d)Work with FP alone

44) Sensitivity of DV is (a)
a)"0.6 kg/cm2 in 6 secs b)0.3 kg/cm2 in 60 secs
c)0.6 kg/cm2 in 60 secs d)0.5 kg/cm2 in 60 secs

45) Insensitivity of DV is (b)
a) 0.6 kg/cm2 in 6 secs b) 0.3 kg/cm2 in 60 secs
c) 0.6 kg/cm2 in 60 secs d) 0.5 kg/cm2 in 60 secs

46) In M.U operation in Air brake loco, conjunction working in leading loco will takes place through (b)
a)28 VB b)C3W DV c) A1 differential valve d) F1 selector valve

47) If A9 coc is closed in both control stands (a)
a)BP will not create b)BP will destroy only in emergency
c)Loco brakes will not release d)BP will not destroy

48) In MU operation during A9 application, trail loco brakes get applied through(b)
a)C3W DV b)F1 selector c)Additional C2 relay valve d)Both a & c.

49) While working an air brake train if engine shuts down on run (c)
a)The train brakes will apply automatically
b)Apply A9 and release after train comes to stop
c) Keep A9 in Emergency position until the trouble is rectified.
d)Apply loco brakes alone

50) In IRAB-1 brake system conjunction working of loco brakes takes place through (b)
a)28 VB valve b)C3WDV c)A1 differential valve d)VA1B control valve

51) In MU trailing loco if 3/4" coc alone is kept in open position (b)
a)BP will not destroy b)BP will not create up to 5.0 kg/cm2

c)Loco brakes will not apply d)BP will destroy only in emergency

52) If SA9 COC is closed in working control stand (a)
a. loco brakes will not apply b)conjunction brake will not apply
c) loco brakes will apply d)Bp will not create

53) Location of C3W DV in IRAB brake system is (b)
a. B- control stand b) Nose compartment c) Under truck d) A-control stand

54) If brake system coc is kept in closed position. (c)
a)BP pressure will not create b)FP pressure will not create
c)Both a and d d)MR pressure will not indicate

55) In IRAB1 brake system conjunction working of loco brakes takes place through (b)
a)28 VB valve b)C3W DV c)A1 differential valve d)VA1B valve

56) In ALCO locos turbo super charger, turbine is rotated by (c)

a)Gears b)Motorc)Exhaust gas d)Clutch

57) Main reservoir safety valve is set at_____KG/cm2 (a)
a)10.5 b)8 c)9 d)9.5

58) Bogie configuration of WDG4 Locomotive is (a)
a. CO-CO b) Bo1 Bo 1 c)BO-BO d)BU-BU

59) Axle Load of WDG4 Locomotive is (a)

a) 20.5 T b)22.5T c)25T d)19.5T

60) Axle Load of WDP4 Locomotive is (d)

a) 20.5 T b)22.5T c)25T d)19.5T

61) 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 carbody is accomplished by (b)
a. Hooks b)Safety links c)Lateral shock absorber d)Springs

62) Traction Motor gear ratio for GT46MAC is (c)
a)17:77 b)18:90 c)17:90 d)16:90

63) WDG4 Loco is provided with_____type of bogie (a)
a. three-axle bolster-less bogie b)Tri mount c) Fabricated d)Flexi coil

64) Reduction in BP pressure causes ___ (c)
a. Brakes release b)Brakes slow release
c) Brakes application d)MR pressure increasing

65) How many kinds of Brakes are provided on Diesel locomotive? (a)
a) 5 b) 10 c) 11 d) 9

66) "_is the main power supply of CCB for the CCB system." (b)
a. DCU b)VCU c)PCU d)DVR

67) In WDG4 loco max. Brake cylinder pressure is __Kg/Cm2 during backup system(a)
a)3.8 b)3.2 c)2.2 d)5

68) CCB fault code for Brake Pipe Leakage Failure _____ (c)
a. 6A b)6C c)6B d)6D

69) Emergency brake application is accomplished by___valve provided at the lower left of each console (a)
a)D 1 emergency valve b) Independent brake valve
c)Direct Brake valve d)companion emergency brake

70) EPA 1 is a printed circuit board(PCB) Controls (d)
a)Brake Cylinder b) BP pressure
c)Direct brake controls d)Auto brake application(EQ Reservoir)

71) EPA 2 is a printed circuit board(PCB) Controls (a)
a)Brake Cylinder b)BP pressure c) EQ. Reservoir d)MR pressure

72) EPA 3 is a printed circuit board(PCB) Controls (c)
a)Brake Cylinder b)BP pressure c)Direct brake controls d)MR pressure

73) MRPT-Main Reservoir Pressure Transducer reads pressure____ between (b)
a)MR1&MR2 b)MR1 pressure c)MR2 pressure d)FP pressure

74) 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 (c)
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

75) The EM2000 reads main reservoir air pressure from_____transducer. (d)
a)BPT b)BCT c)ERT d)MRPT

76) What is the code for Brake pipe control failure in self test ? (b)
a)8A b)6A c)10A d)22A

77) What is the code for Brake pipe leakage failure in self test? (a)
a)6B b)10B c)6F d)6S

78) What is the function of KE valve in CCB system in WDPG4 locomotive? (a)
a)Provides pneumatic back Up b) Creation of BP c)Creation of FP
d)Emergency application

79) In HHP locos, why Maximum of 5.2kg/cm2 brake cylinder pressure is used in place of 3.5kg/cm2 as in conventional locos ? (c)
a)High horse power loco b)Speed is more c)A single shoe system is used
d)To have effective brake power

80) After cooler cooled air in air inlet casing is also called as (d)
a)Control Air Pressure b)Vacuum Control Air Pressure c)HS4 pressure
d)Booster Air Pressure

81) N 1 Reducing valve/Limiting valve is located in (c)
a)Radiator room b) Compressor room c)Nose compartment d)Rear compartment

82) The exhaust manifold is connected to_____part of the TSC. (a)
a)Gas Inlet Casing b)Intermediate Casingc)Turbine Casing d)Blower Casing

83) Where the booster air pressure stored in Two stroke engine? (a)
a. Air Box b) Manifold c) Tank d) MR

84) De-Energizing of MV-CC means (c)
a. Unloading/unloading of compressor b) Unloading of compressor
c)Loading of compressor d) Tripping of Micro Air breaker

85) Loading and unloading of compressor is controlled by_____in WDG4/P4 (a)
a)MVCC b)EPG c) RGCP d)None of the above

86) 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)
a. the compressor is unloading. b)When penalty brake applied c)the compressor is loading. d)Micro Air breaker trips

87) After cranking, allow a minimum of_____minutes for starter motor cooling before attempting another engine start. (c)
a)20 b)10 c)2 d)5

88) Do not crank engine for more than_____with starting motors in HHP (d)
a. 30seconds b) 1minutes c) 10seconds d) 20 seconds

89) Capacity of Lube oil system of WDP4 class Locomotive is_____liters (a)
a)1457 b)900 c)1050 d)1150

90) 8th notch speed of WDP4 Engine_____RPM (c)
a)1050 b)1000 c)954 d)915

91) Buffer Height of WDP1 --------- (b)
a)1105 mm to 1000 mm b)1105 mm to 1030 mm c)1105 mm to 1090 mm
d)1125 mm to 1030 mm

92) Chemical added in loco coolant water ------ (d)
a. Indion 1345 b) Indion 1244 c) Indion 1245 d) HP power cool

93) FTTM driven with (c)
a. Electric motor. b)Belts. c) Gear d)Hydraulic pressure

94) How many No. of batteries in WDP4 Locomotive (b)
a)8 b)10 c)4 d)6

95) Latest modified lube oil cooler is of_____type (b)
a. Drum b) plate c)Paper d)Roll

96) Lube Oil capacity of Compressor in WDP4 is_____liters (c)
a) 9 b) 8 c) 10 d) 12

97) Maximum continuous speed of WDP4 class Loco motive is_____kmph (c)
a)140 b)150 c)160 d)180

98) Maximum rectified output voltage of Auxiliary Alternator is_____volts (a)
A) 74 b)75 c)72 d)70

99) Maximum rectified output voltage of Companion Alternator is_____volts (b)
a) 250 b)230 c)200 d)110

100) Minimum continuous speed at Maximum tractive effort of WDP4 Locomotive is _____kmph (d)
a)15.5 b)20 c)10.0 d)22.5

101) N1 reducing valve/Limiting is used to control_____pressure (c)
a. BP pressure b)FP pressure c)Control Air Pressure d)BC pressure

102) HP of WDP4 Loco motive is_____HP (a)
a)4500 b)3900 c)3950 d)3939

103) Normal idle RPM of WDP4 Engine is _____ (b)
a)290 b)269 c)250 d)296

104) The coupling between right angle gear box and radiator fan is (a)
a. Universal Coupling b) love-joy coupling c) CBC coupling d) Cam gear

105) In Alco loco Turbo supercharger is driven by (b)
a)Cam gear b)Exhaust gasses c)Crank shaft d)AC motor

106) Type of Water Pump in WDP4_____ (c)
a. AC motor pump b)Air driven pump c)Centrifugal Pump d)Gear pump

107) WDP4 OSTA tripping rpm is: (c)
a) 1155 ± 20 b) 1125 ± 20 c) 1045 ± 20 d) 1100 ± 20

108) What is the minimum clearance required for wheel to brake block during release (c)
a)10mm b)8mm c)6mm d)4mm

109) What is the piston travel of brake cylinder in WDM3A loco? (c)
a)60 to 85 cm b)85 to 95 cm c) 95 to 105 cm d)90 to 100 cm

110) In WDG3A locomotives 3/4" coc (BP coc) is located in/at (a)
a)Nose compartment b)Driver cab c)Short hood control stand d)None of the above

111) Purpose of TEL (Tractive effort limit)Relay in WDG4 Locos is (d)
a)To limit tractive effort to 200KN or 20T b)To limit tractive effort to 250KN or 25T
c)To limit tractive effort to 150KN or 15T d)To limit tractive effort to 294KN or 29.4T

112) Fuel oil primary filter is located at_____ (d)
a. Generator Room b)Engine room c)Radiator Room d)Equipment rake

113) If the pressure across the primary filter element exceeds____, a bypass valve begins to open, bypassing the primary fuel filter. (d)
a)1.6kg/cm2 b)5.3kg/cm2 c)4.8kg/cm2 d)2.1kg/cm2

114) 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)
a)5.0kg/cm2 b)4.2 c)4.8kg/cm2 d)3.8kg/cm2

115) In ALCO Locos Fuel oil crossover flexible pipe is located in (c)
a)Radiator room b)Nose compartment c)Power takeoff end d)Free end

116) If white smoke is emitting from exhaust chimney, what could be the reason? (a)
a)Water mixed with fuel oil b)Governor oil mixed with fuel oil
c)Lube oil mixed with fuel oil d)None of these

117) What is the Fuel oil tank capacity in WDP4D locomotive in litres. (a)
a)6000 b)5000 c)3000 d)5500

118) Number of brake blocks are provided on WDG3 (b)
a)16 b)24 c)32 d)22

119) WDG4 Engine idle RPM (c)
a)469 b)369 c)269 d)360

120) What is the maximum permissible speed of (designed for) WDG4 locomotives (c)
a)150 kmph b) 120 kmph c) 105 kmph d) 75 kmph

121) How many Lube oil pumps available in EMD engine? (d)
a) 5 b) 7 c) 9 d) 4

122) In HHP Locos lube oil filter drum is located at_____ (b)
a. Generator Room b)Equipment rake c)Engine roomd)Radiator Room

123) LOPS setting of WDG4 loco in 8th Notch is (a)
a)25-29 psi b)8-12 psi c)12-20 PSI d)20- 30PSI

124) LOPS setting of WDG4 loco in idle is (b)
a)10 - 12 PSI b)8-12 psi c)12-20 PSI d)20- 30PSI

125) Pre lubrication is required if an engine that has been shut down for more than--- hours (a)
a) 48 b)24 c)12 d)8

126) The purpose of Turbo lube pump in WDP4 Locomotive before cranking is (c)
a. To lubricate the Turbo b)To remove the residual heat c)To lubricate turbo bearing d)To lubricate crank shaft

127) Lube oil dipstick gauge of WDG3A is having_____liters capacity. (c)
a)400 b)380 c)600 d)500

128) __Number of brake blocks are provided on WDG4 (b)
a) 16 b)12 c)32 d)22

129) In Alco Locos Lube oil Cooler is located in_____ (a)
a. Radiator room b) Compressor room c) Generator room d)Under truck

130) Lube oil dip stick gauge capacity in WDG4 locos is_____.liters. (c)
a)400 b)550 c) 625 d)700

131) In ALCO Locos Lube oil Filter drum is located in_____ (d)
a. Nose compartment b)Generator room c)Engine block d)Radiator room

132) What is the Safety Device provided in the Lube oil system ? (c)
a. GFOLR b) OSTA c) LLOB d)LWS

133) When LLOB trips, the engine will_____ (b)
a. Raise b) Shutdown c) Comes to Idle d) Hunting

134) Electro Pneumatic Governor (EPG) is located in (a)
a. Compressor room b)Radiator room c)Nose compartment d)Rear compartment

135) From where the control air pressure will get air pressure (b)
a)MR2 b)MR1 c)BKTs d)J filter

136) Main Reservoir (compressed air pressure) Unloading will takes place at_kg /cm2 (c)
a)8 b)9 c)10 d)11

137) MR Cooling coils in WDG4 is located at (c)
a)Under truck b)Engine block c)Radiator room d)Compressor room

138) MR safety valve is set at_____Kg/Cm2 pressure. (c)
a) 8 b)9 c)10.5 d)9.5

139) The compressed air enters to MR1 tank through (c)
a)MR Safety valve b)MR2 c) Cooling Coil d)3 / 4" cutout cock

140) Maximum Stall Tractive Effort of WDG4 Locomotive is (a)
a) 540KN b) 400KN c) 200KN d) 250KN

141) A pressure cap, which is located on the water tank filler pipe, opens at approximately. (c)
a. 25 PSI b)15 PSI c)20 PSI d)70 PSI

142) Cooling Water capacity in WDM2 locomotive is_____liters. (d)
a)900 b)910 c)1300 d)1210

143) How many water pumps available in EMD locomotive engine? (d)
a)1 b)4 c)3 d)2

144) In WDM2 engine, the Water pump is driven by (c)
a. Motor b) Pulley c) Gear d) Belts

145) EPD is Located at_____ (a)
a. Engine Accessories Room b) Engine room c) Radiator Room d) Equipment rake

146) In HHP loco the system maintains the coolant temperature within a predetermined range from (a)
a)79° C to 85° C b) 85 to 95° C c) 92 to 100 ° C d) 72 to 80 ° C

147) Water leaking continuously from water tell tale pipe (b)
a. Dummy it and work further b) Fail the loco duly observing the water level
c) Do fast pumping d) Work on lower notches

148) Hot engine alarm (HEA) will come at_____°Cin WDG3A locos (c)
a) 60 b) 70 c) 90 d) 80

149) During one of the following occasions Hot engine alarm indication will get (c)
a. Continuous 8th notch working b) Excess load
c) Water pump not working d) Full water in expansion tank

150) LWS is connected to (b)
a. Water left side return header b) Water expansion tank
c) Water right side return header d) All the above

151) __will be switched on automatically in loco, during accidents (b)
a. Head light b) Auto flasher light c) Marker light d) Doom light

152) FP pressure in loco shall be_____and in BV_____kg/Sq.cm. (c)
a) 5.0, 4.8 b) 5.0, 4.7 c) 6.0, 5.8 d) 6.0, 5.7

153) What is the color code for the BP pressure pipe? (c)
a. Black b) Red c) Green d)Yellow

154) DV isolating handle in_____position indicates DV is in isolated position. (b)
a. Vertical b) Horizontal c) 60 degrees d) None of these

155) DV isolating handle in_____position indicates DV is in working position. (b)
a. Horizontal b) Vertical c) 45 degrees d) None of these

156) When the speedometer of a running train engine becomes defective (b)
a. Fail the locomotive b) Work the train by reducing 10% speed from Bookedspeed
c) Work further with 50 kmph d) Ask for the relief engine

157) The speed restriction that has to be observed by a LP when headlight of engine fails on BG is_____kmph. (c)
a. 50kmph b) 30kmph c) 40kmph d) MPS

158) Whenever stopped on gradient for any reason it is essential to apply the _____brakes (c)
a)SA.9 b) A.9 c) A9 & SA9 d) Hand brake

159) How much BP pressure should be ensured in the engine and BV before staring air brake train ? (c)
a) 6cm2kg,4.9 kg/cm2 b) 5.2kg/cm2, 4.7 kg/cm2
c) 5kgcm2, 4.8 kg/cm2 d) 4.8kg/cm2, 5kg/cm2

160) If MU locos get parted through which valve brake will apply in rear loco? (c)
a. SA-9 b)A-9 c) F1 Selector d) N1 Reducing

161) The effective Brake Power in case of Mail/Express at the originating station should be____% and enroute can be not less than_____% (c)
a) 100, 85 b) 100, 100 c) 100, 90 D)100, 95

162) The following shall not be used for extinguishing fires on electrical equipment. (c)
a. Dry chemical powder b) foam c) water d)none of these

163) What are the present VCD cyclic timings ? (a)
a)60, 8 and 8 seconds b)60,17 and 17 seconds c)170, 17 and 17 seconds
d)65,8 and 8 seconds

164) What condition is to be observed in loco by LP to avoid stalling? (c)
a)COC's b)Lube oil pressure c)Load meter over shooting
d)Conjunctional brake working

165) What is the position of ¾ coc's in both loco while carrying dead locos? (b)
a)close/closeb)open/close c)Both open d)none of the above

166) What is the position of C3W/DV in both locos while carrying dead loco? (a)
a)open/open b)close/open c)Both close d)open/close

167) What is the position of MU2B & BP isolation COC in banker loco ? (a)
a)Lead & close b)Trail & open c)Trail & close d)None

168) What is to be done by LP whenever the train engine is changed? (a)
a)Air brake continuity b)GLP c)Brake power d)Feel test

169) What precaution should be taken for conducting Air brake self test in GM locos? (d)
a. Secure loco
b. Secure formation
c. Detach loco and secure
d. Secure both, close BP & FP COC of loco towards formation.

170) What should be done first for changing console in WDG 4 / WDP 4 locos ? (a)
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

171) What should be the position of BP & FP angle cocks in an DV isolated coach/wagon of an air brake train ? (a)
a. Open b)Close c)None d)BP close & FP open

172) What should be the position of Lead /Trail switch in trailing loco of WDG4/WDP4 MU ? (a)
a. Trail b) Lead c) Both d) Off

173) What Test should be done by Crew for Passenger Train detained more than 30 minutes? (b)
a) Air brake Self Test b) Air Continuity test c)Brake feel test d)Brake Power test.

174) When Head light become defective speed of the train shall not exceed_____.(c)
a. 20Kmph b) 30Kmph c) 40kmph d) 50kmph

175) Which coc's should be ensured in open condition in both control stand before perform shunting ? (b)
a. A-9 b) SA-9 c) Both A9 & SA 9 d)None of the above

176) While carrying dead loco----------to be ensured (d)
A)Conjunctional brake application in rear loco b)conjunctional brake application in leading loco c)Conjunctional brake in both loco's d)All the above

177) While taking over charge of Loco, if Flasher light glows but does not flash/blink, what action would you take? (a)
a. Fail the loco b) Will work to nearest shed
c) Inform PRC & work further. d) Work normally

178) During engine starting if engine is cranking, Firing, Over speeding, OSTA Tripping and Engine shutting down the reason may be (b)
a)Main Generator failure b) Taco Generator failure
c)Exciter Generator failure d) Auxiliary Generator failure

179) A goods train having 56 wagons, the BP pressure in engine shall be____and in BV _____kg/sq.cm. (b)
a)5.0, 4.6 b)5.0, 4.8 c)4.8, 5.0 d)6.0, 5.0

180) A goods train having 58 wagons, the BP pressure in loco shall be_____and in BV_____kg/Sq.cm. (d)
a)5.0, 4.5 b)6.0, 5.8 c)5.0, 4.0 d)5.0, 4.7

181) A Railway servant directly connected with train passing duties shall not consume alcoholic drinks within_____hours before commencement of duty. (c)
a)2 b)5 c)8 d)10

182) 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

183) While working LE's Loco Pilot should_____to Stop the Locomotive. (b)
a. apply A-9 brake b) apply SA-9 and Dynamic Brakes c) apply Hand brakes d) close the throttle to zero.

184) Locos provided with Cast Iron brake blocks requires_____than the Locos provided with Composite brake blocks (a)
a. More braking distance b)Less braking distance c)frequent change of brake blocks d)BC pressure 3.8 kg/cm2

185) Revised VCD cyclic timings are_____ (a)
a. 60, 8 and 8 seconds b) 60,17 and 17 seconds c)170, 17 and 17 seconds d)65,8 and 8 seconds

186) While working LE's Loco pilot should check and ensure_____before starting.(c)
a)Head light b)Flasher Light c)Brake Power physically and not moving of Loco up to 2nd Notch on application of SA-9 d)Marker Lights

187) When LE loco brakes are not applying check (d)
a)SA9 COC b)MU2B c)BC COC & Pressure d)All

188) When loco working as banker the position of MU2B & BP isolation COC (a)
a)Lead & close b)Trail & open c)All d)None

189) Immediate action when BP is not destroying with A9 during controlling of train(b)
a)Open A9 COC in Non-working cont. stand b)Apply D1 Emergency c)Change the Control stand d)Adjust BP pressure

190) Important test should be done before leaving station for a train (c)
a)Brake feel test b)Brake power test c)Air continuity test d)All

191) What test must be done by LP while leaving station with what speed (a)
a)Brake feel test, 15 KMPH b)Brake power test, MPS c)Working of DB, 15 KMPH d)None

192) After detaching Loco from formation which safety aspect should be checked before working LE. (c)
a. Continuity test b)Traction test c)Loco Brake power test d)leakage test

193) While TOC of Loco, If Flasher light glows but does no blink, what action would you take. (a)
a. Fail the loco b)Will work to nearest shed c)Change the bulb d)Work normally

194) How would you work the train if the loco wheel develops skid mark more than 50 mm between section? (b)

a) Fail the loco at site b)Work with 40 KMPH

c)Clear section with 20 KMPH d)None

195) What immediate action would you take on noticing sudden drop of BP pressure/vacuumon run ? (c)

a. Stop the train b) Contact Guard on VHF c) Switch on Flasher light

d)Inform PRC

196) When Head light becomes defective speed of the train shall not exceed ? (c)

a. 20 kmph b) 30 kmph c) 40 kmph d) 50 kmph

197) What should be done by LP for releasing proportional loco brakes during A9 application ? (c)

a. Pressing BKIV foot pedal b) Application of DB c) Either A or B d) None

198) The lead /Trail switch position in console of WDG4/WDP4 working as MU trailing is (a)

a. Trail b) Lead c) Both d) None

199) If BP & FP pipes are wrongly connected ---- will fail. (b)

a. Loco is failed b) Formation Brakes c) Loco brakes d)All

200) What action should be taken by LP when loco fails on run in section ? (c)

a. Clear section and stop b) Trouble shoot first c) Stop & secure first d) Inform PRC

201) Are BP & FP angle cocks to be kept OPEN always in an isolated coach/wagon of an air brake train ? (a)

a. Yes b) No c) None of two above d) Above all

202) What should be done first for changing consol in WDG 4 / WDP 4 locos? (a)

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

203) If hot oil detector operates_____ (b)
a. Engine comes to Idle b) Engine will Shut down c) Load meter zero
d) No effect

204) Bail off is provided to release (b)
a. Direct brake applicationb) Conjunctional brake application c) Formation brakes
d) Both B and C

205) If battery ammeter is showing over charging, what may be the reason? (c)
a. BS open b) MB1 tripped c) Battery defective d) AGFB tripped

206) If battery ammeter shows over charging, what may be the reason? (c)
a. BS open b) MB1 tripped c) VRP defective d) AGFB tripped

207) What is the purpose of VRP? (c)
a. To safeguard battery b) To safeguard control circuit
c) To maintain 72 V irrespective of engine speed d) To safeguard driver

208) If Battery ammeter shows discharging and not rectified what is the action to (d)
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

209) If engine is not cranking what is the switches to be checked? (d)
a. Battery Knife Switch b) Engine Control Switch c) MUSD Switch d)All

210) If engine is not cranking which switch is to be checked in nose compartment?(a)
a. Battery Knife Switch b) Engine Control Switch c) MUSD Switchd) Start Switch

211) If engine is not cranking which switch is to be checked on the front panel? (c)
a. Battery Switch b) MUSD c) ECS d) GF Switch

212) If engine is not cranking which contactors are to be checked? (d)
a. FPC Contactor b) CK1 Contactor c) CK2 Contactor d) All the above

213) For engine cranking what should be MUSD & ECS position? (b)
a. RUN, RUN b) RUN, IDLE c) STOP, RUN d) STOP,IDLE

214) What should be checked if engine shutdown with over speed? (a)
a. OSTA b) SAR c) Governor Am phenol plug d) Fuel pump motor

215) What should be checked if engine shutdown on run with indication? (b)
a. OSTA b) LWS c) SAR d) Governor Am phenol plug

216) What happens if Amphenol plug is slack on run in WW governor loco? (a)
a. Engine Idle, Load meter zero b) Only Load meter zero c) Only engineidle
d) Engine shutdown

217) When does AFL System operate? (d)
a. Fireman emergency b) ACP c) Guard application d) All the above

218) What is the effect of AFL operation? (d)
a. Engine comes to idle b) AFL Indication c) Buzzer d) All the above

219) What is the effect if A9 is applied in emergency position? (b)
a. AFL Operates b)Engine idle with full brakes c)Only loco brakes get applied
d)No effect

220) Which item is used to reset AFL? (a)
a. SW1 & SW2 b) SP1 & SP2 c) MCB1 & MCB2 d) MFPB1 & MFPB2

221) To reset only Buzzer what is the action required by the Driver? (c)
a. SW1 &SW2 b) SP1 &SP2
c) Switch On normal flasher light and SW1&SW2 Off d) All the above

222) To get quick charging of BP which should be operated? (b)
a. SW1 &SW2 b) SP1 & SP2 c) MCB1 & MCB2 d) MFPB1 & MFPB2

223) If AFL Malfunctions, what is the action to be taken? (b)
a. Tampering of pressure switches b) 171 Wire disconnection c) Pack DMR
d) Fail the loco

224) What should be the control air pressure? (a)
a. 5Kg/Cm² b) 6Kg.Cm² c) 8.5Kg/Cm² d)9.5Kg/Cm²

225) How do you adjust control air pressure? (c)
a. A9 Feed valve b) SA9 Feed valve c) Limiting Valve d) HS4 Valve

226) Improper control air pressure leads to (d)
a. Power Contactors fluttering b) Flash Over c) Power Ground
d) All the above

227) If engine shuts down with hot engine alarm which safety device operates? (b)
a. ETS b) LWS c) SAR d) OPS

228) If engine is running with Hot engine alarm which safety device is operated?(c)
a. LWS b) OPS c) ETS d) SAR

229) BP pressure in Alco locomotive is_____kg/cm² (b)

a) 3.5 b) 5 c) 6 d) 8

230) FP pressure in Alco locomotive is_____kg/cm² (c)

a) 3.5 b) 5 c) 6 d) 8

231) Fuel oil relief valve is set at_____kg/cm² in Alco locomotive (b)

a) 4.5 b) 5 c) 6 d) 8

232) WDM3A loco is having_____no. of brake blocks (b)

a)12 b) 24 c) 36 d) 16

(b)
233) Pinion to Bull gear ratio in WDM3A loco is _____
a)18:74 b) 18:65 c) 17:77 d) 17:90

234) In WDM3A loco FTTM is driven with _____ (b)

a)Belts b) Gear c) Hydraulic pressure d) Electric motor

235) In WDM3A loco RTTM is driven with _____ (a)

a)Belts b) Gear c) Hydraulic pressure d) Electric motor

236) In Alco loco LWS is located in____ (c)

a) Nose Compartment b) Driven cabin c) Compressor Compartment

(d) Radiator room

237) No. of positions in A9 valve (d)

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

238) In Alco loco fuel oil regulating valve is set at_____kg/cm² (b)
a)3 b) 4 c) 5 d) 6

239) In Alco loco lube oil relief valve is set at_____kg/cm² (d)
a)6 b) 7 c) 8 d) 9

240) In WDG3A loco max. exhaust gas temperature is_____ºC (b)
a)500 b) 525 c) 600 d) 625

241) VCD penalty takes place after_____sec. (b)
a)86 b) 76 c) 96 d) 68

242) MR safety valve is set at_____kg/cm² (d)
a)8 b) 8.5 c) 10 d) 10.5

243) In Alco loco EPG is located in____ (c)

a) Driver cab b) Nose compartment c) Compressor compartment d) Radiator room

244) In AC-DC locomotives engine is cranked by (d)
a)Main Generator b) Auxiliary Generator c) Exciter Generator d) Auxiliary &Exciter Generator

245) In Alco Traction Motor gear case is having____no. of bolts (c)
a)5 b) 6 c) 7d) 8

246) To find out BP leakage in the formation _____is provided (b)
a)BP gauge b) Air Flow Indicator c) FP gauged) Spy glass

247) In Alco loco, if water level comes down below 1" from bottom of tank_____safety device will operate (c)
b) PCS b) OSTA c) LWS d) LLOB

248) Wheel numbers to which brake blocks get applied when hand brake is applied in WDG3A loco (b)
a)L1,L2 b) R1,R2 c) L1,R1 d) L2,R2

249) Rectifier converts (a)

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

250) Inverter converts (b)

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

251) Idle RPM of WDG3A locomotive is (b)

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

252) 8th RPM of WDG3A locomotive is (d)
a) 400 b) 950 c) 1000 d) 1050

253) Low Idle RPM of WDG3A locomotive is (a)
c) 350 b) 400 c) 450 d) 500

254) Horse power of WDM3D locomotive is (c)
a) 2600 b) 3100 c) 3300 d) 4000

255) In HHP locomotive engine cylinders are cooled by (c)

d) Water b) Oil & water c) Super charged air & Water d) None

256) Type of bogie available in WDG4 locomotive is (c)
a)Tri mount b) Fabricated c) HTSC d) None

257) Number of brake cylinders in WDM3A locomotive is (b)
a) 4 b) 8 c) 10 d) 12

258) Reduction in BP pressure causes (c)
a) Brakes release b) Brakes slow release
c) Brakes application d) MR pressure increasing

259) WDM3A loco is having_____no. of brake blocks (b)
a)12 b) 24 c) 36 d) 16

260) In Alco loco fuel oil relief valve is set at __kg/cm² (a)
a) 5 b) 2 c) 3 d) 4

261) In Alco loco fuel oil regulating valve is set at ____kg/cm² (b)
a) 3 b) 4 c) 5 d) 6

262) VCD penalty takes place after_____sec. (b)
a) 86 b) 76 c) 96 d) 68

263) MR safety valve is set at___kg/cm² (d)
a) 8 b) 8.5 c) 10 d) 10.5

264) In Alco loco EPG is located in _____ (c)
e) Driver cab b) Nose compartment
c) Compressor compartment d) Radiator room

265) In AC-DC locomotives engine is cranked by (d)

f) Main Generator b) Auxiliary Generator c) Exciter Generator

d) Auxiliary & Exciter Generator

266) In Alco Traction Motor gear case is having no. of bolts (c)
a)5 b) 6 c) 7 d) 8

267) To find out BP leakage in the formation__is provided (b)
a)BP gauge b) Air Flow Indicator c) FP gauge d) Spy glass

268) In Alco loco, if water level comes down below 1" from bottom of tank ___

safety device will operate (c)

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

269) Wheel numbers to which brake blocks get applied when hand brake is applied in WDG3A loco (b)
a)L1,L2 b) R1,R2 c) L1,R1 d) L2,R2

270) Dust exhaust motors are available for_____type of filters (b)
a)Car body b)Cyclonic c) Air maize d) None

271) The safety device provided in brake system is____ (b)
a) LLOB b) PCS c) LWS d) OSTA

272) In Alco loco Sanders are operated through_____pressure (a)
a)MR1 b) MR2 c) FP d) None

273) Rectifier converts (a)

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

274) Inverter converts (b)

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

275) Idle RPM of WDG3A locomotive is (b)
a)350 b) 400 c) 450 d) 500

276) 8th RPM of WDG3A locomotive is (d)
a)400 b) 950 c) 1000 d) 1050

277) Low Idle RPM of WDG3A locomotive is (a)
a)350 b) 400 c) 450 d) 500

278) Fabricated bogie is available in____locomotive (c)
a)WDM3A b) WDG4 c) WDG3A d) WDP4

279) Compressor lube oil pump is driven by (b)
a)Chain b) Gear c) Belt d) Motor

280) The exhaust manifold is connected to the part of TSC (a)
a)Gas Inlet casing b) Intermediate casing c) Turbine casing
d)Blower casing

281) If white smoke is emitting from exhaust chimney, what could be the reason (a)
a)Water mixed with fuel oil b) Governor oil mixed with fuel oil
c)Lube oil mixed with fuel oil d) None of these

282) Water leaking continuously from water telltale pipe (b)
a)Dummy it work b) fail the loco
c)Do fast pumping d) work on lower notches

283) Hot Engine Alarm will come at___°C in WDG3A locos (c)
a)60 b) 70 c) 90 d) 80

284) Electro Pneumatic Governor is located in (a)
a)Compressor room b) Radiator room c) Nose compartment d) none

285) During MR efficiency test in WDG3A loco,_____kg/cm² MR pressure should be created within_____minutes. (c)
a)7, 5 b) 8, 4 c) 10, 3 d) 5, 5

286) No. of Brake cylinders in Alco loco (b)
a)4 b) 8 c) 12 d) 10

287) In Alco loco Lube oil filter drum is located in (a)
g) Radiator Room b) Generator room
c) Nose compartment d) Engine room

288) How many kinds of Brakes are provided in WDG3A/WDG4 loco (b)
a) 2 b) 5 c) 4 d) 6

289) LWS is connected to (b)
h)Water left side return header b) Water expansion tank
c)Water right side return header d) All the above

290) MR pressure unloading takes place at_____kg/cm² (a)
a)10 b) 8 c) 12 d) 10.5

291) From where the control air pressure gets charged (a)
i) MR1 b) MR2 c) FP d) BP

292) Lube oil dipstick gauge of WDG3A is having_____liters capacity (c)
a)400 b) 380 c) 600 d) 500

293) Fuel pump motor is not working though all circuit breakers are switched 'ON', the reason may could be_____. (d)

j) ERF not closed b) R1 & R2 not picked up

c) GFC not picked up d) FPC not picked up

294) Reduction in BP pressure causes _____

k) Brakes release b) Brakes slow release

c) Brakes application c) MR pressure increasing

295) In WDG3A loco on each truck_____no. of hydraulic dampersare provided (d)

a) 5 b) 2 c) 8 d) 6

296) __is provided on WDG3A bogie to avoid run out of bogie from chassis (c)

a)Centre pivot b) side bearers c) D shackles d) side stoppers

297) In WDG3A loco when A9 is brought to Emergency position, action takes place in Auto Flasher system is (a)

a)DMR de-energize b) BKT will come to braking

c) GFOLR will trip d) Flasher light will glow

298) Power contactors fluttering is due to (c)

b)Less magnetism b) Load meter defective

c) Less control air pressure d) Week batteries

299) The following may be used for fast charging of BP in WDG3A (c)

c)Release position of A9 b) Foot pedal c) SP1 d) SW1

300) In WDG3A loco whenever BP drops below_____kg/cm² Other than A9 operation Auto flasher will come (b)

a)4.2 b) 4.4 c) 4.3 d) 4.0

301) In Twin beam head lights___volts halogen lamps are used (c)

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

302) 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)

a) Operating change over switch on DC-DC converter

b) By changing to other control stand c) By replacing bulb d) none

303) In MCBG loco Actuator/Sensor unit is located at (d)

a) Compressor compartment b) Excitation Panel

c) LP cab d) Existing location of Governor

304) In MCBG loco when shut down occurs due to over speed initiated by MCBG, it should be acknowledged by (a)

a) Resetting push button b) OST test key switch

c) Power switch d) GFOLR reset button

305) The conventional Electronic type excitation system is replaced with _____ (a)

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

306) Breather valve is provided on (c)

a)Governor b) LP Cab c) Compressor d) Main generator

307) In MU trailing loco during parting, trail position changes to

Lead position in brake system through (d)

a)D1 pilot air valve b) MU2B c) C2 relay valve d) F1 selector valve

308) In IRAB1 system, conjunction brakes will come due to_____valve (b)

a)C2 Relay valve b) Distributor valve c) MU2B d) None

309) In MU lead loco MU2B position should be (a)

a) Lead b) Trail c) Dead d) None

310) During dynamic braking_____valve avoids loco brake to apply (c)

a) C2 relay valve b) Additional C2 relay valve c) BKIV d) SA9

311) In IRAB1 brake system PCS2 picks & drops at (d)

a)4.0 & 4.5 kg/cm² b) 1.3 & 1.6 kg/cm²

c)2.5 & 3.0 kg/cm² d) 4.0 & 2.8 kg/cm²

312) If electrolyte leaks from battery,_____will happen (b)

b) Starting ground b) battery discharging

c) Non-explosive power ground d) engine shut down

313) If explosion door burst, _____

c) Fail the loco b) wait for second time

c) Work on 4th notch d) work up to destination

314) Engine having 5 kg/cm² and BV having 4.0 kg/cm² of BP (d)

then_____test to be conducted

a) Efficiency b) Continuity c)Blockage d) Leakage

315) The safety device provided in brake system is (b)

a)LLOB b) PCS2 c) OSTA d) LWS

316) Dust exhaust motor is available for _____ (b)

a) Car body filters b) Cyclonic filters c) Air maize filters d) all of the above

317) If radiator room door remain open position ___ will be experienced (b)

a) Engine shut down b) Hot Engine c) Load meter not responding d) None

318) Control air pressure is controlled by_____ (b)

a) F2 feed valve b) Limiting valve c) MU2B valve d) F1 selector valve

319) The traction motor gear case is having_____no. of bolts (a)

a) 7 b) 5 c) 4 d) 8

320) In WDM3A loco LLOB prevents engine damages due to lack of (b)

a) water cooling b) lubrication c) governor oil supply d) None of these

321) ¾" COC is between_____&_____. (a)

a) Additional C2 relay valve & BP pipe

b) MR2 & Additional C2 relay valve

c) C2 relay valve & Brake cylinder

d) None of these

322) In WDG3A LWS located in_____ (b)

a) Engine room b) compressor room c) Radiator room d) Generator room

323) N1 reducing valve/Limiting valve is provided in (b)

a) Engine room b) Nose compartment c) Radiator room d) Generator room

324) In WDM3A axle boxes are lubricated by_____ (c)

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

325) N1 reducing valve/Limiting valve is used to control____pressure (c)

a) BP pressure b) FP pressure c) Control air pressure d) Mr pressure

326) Malfunctioning of LWS leads engine to_____ (c)

b) Idle RPM b) 4th notch RPM c) Shut down d) None of these

327) Number of Brake cylinder COCs on WDM3A locomotive (a)

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

328) One of the reason for MR pressure not building up is (b)

a) Safety valve dummied b) Inter cooler tubes burst

c) ABD valve not working d) engine hunting

329) Position of EPG switch on control stand in rear loco of MU is set ___ (c)

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

330) Auto flasher light comes into action if _____ (c)

a) A9 applied b) SA9 applied

c) Unauthorized drop in BP due to ACP, train parting etc.

d) Dynamic brake applied

331) Flat tyre happen _____ (d)

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

332) Type of bogie is provided in WDM3A locomotive (a)

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

333) __type of bogie is provided in WDG3A locomotive (b)

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

334) When A9 is applied, maximum_____kg/cm² pressure will enter into loco brake cylinders (c)

a)1.5 b) 2.0 c) 1.8 d) 3.5

335) VCD acknowledgement is done by operating_____once in every 60 seconds (d)

a) A9 application b) operation of horns

c) Increase or decrease of Throttle d) any of the above

336) In conventional locos, when VCD is acted (d)

a) Engine comes to Idle b) BP drops

c) Brakes will apply d) all the above

337) For resetting VCD wait for_____seconds (b)

a) 30 b) 35 c) 60 d) 20

338) In IRAB1 system BP pressure is adjusted by keeping A9 feed valve handle in___position (b)

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

339) In Alco locos non-working control stand A9 handle position is (b)

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

340) When BP drops below 4.4 kg/cm² without A9 application _____starts functioning (c)

a) APU b) VCD c) AFL d) all the above

341) Additional C2 relay valve is meant for____pressure creation, maintenance & destruction (b)

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

342) In MU locos, MU2B position in leading loco is ___& in trailing loco is __ (a)

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

343) __brake only can be applied in stabled dead loco when pneumatic pressure is zero in main reservoir (c)

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

344) Position of A9 COCs in the loco shall be __ (c)

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

345) In IRAB1 system SA9 feed valve has_____no. of positions (a)

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

346) During A9 Emergency position BP becomes_____kg/cm² andBC becomes_____kg/cm² (a)

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

347) If emergency applied_____operates and engine comes to Idle (c)

a) AFL b) VCD c) PCS2 d) P1

348) . If water contaminated with lube oil, viscosity of lube oil will be (b)

_____

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

349) If water pump tell tale hole is leaking water,_____seal may be defective (b)

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

350) If water pump tell tale hole is leaking oil,__seal may be defective (a)

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

351) If water temperature raises to 90°C__will operate (a)

a) ETS b) OPS c) LLOB d) OSTA

352) If LWS operates engine comes to (b)

a) Idle b) Shutdown c) 4th notch RPM d) None

353) Decolourization of lube oil to grey brown or milky colour is evidence____in the lube oil (a)

a) water b) fuel oil c) carbon d) None

354) 8. EPG will maintain MR pressure between kg/cm² to____kg/cm² (c)

a)5 , 10b) 10, 12 c) 8, 10 d) 10, 10.5

355) 9. If ETS is operated, engine RPM will ____ (c)

a) Increase b) decrease c) not be effected d) None

356) If LWS is operated_____indication is displayed (c)

a) Wheel slip b) PCS c) Hot engine d) none

357) To avoid separation of chassis & bogie____are provided in WDM3A locomotive (a)

a) Collar pins & U bracket

b) D shackles

c) Both a & b

d) None of the above

358) To avoid separation of chassis & bogie____are provided in WDG3A locomotive (b)

a) Collar pins & U bracket

b) D shackles

c) Both a & b

d) None of the above

359) WDG3A loco super structure load is carried by (b)

a) Centre pivot b) load pads c) coil springs d) both a & b

360) WDM3A loco super structure load is carried by (d)

a) Centre pivot b) side bearers c) coil springs d) both a & b

361) In WDG3A loco FTTM blower cools_____traction motors (a)

a)1,2,3 b) 4,5,6 c) 1,3,5 d) 2,4,6

362) In WDG3A loco RTTM blower cools_____traction motors (b)

a)1,2,3 b) 4,5,6 c) 1,3,5 d) 2,4,6

363) In engine crank case, if positive pressure increases more than its limit_____gets operated (c)

a) b) OSTA c) Explosion door d) PCS

364) Horse Power of WDM3D is (b)

a)3100 b) 3300 c) 2600 d) 4000

365) In WDM3A radiator fan rotates at___different speeds (a)

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

366) Air dryer is provided between (b)

a)MR Cooling coil & MR1 b) MR1 & MR2

c)Compressor & MR cooling coil d) Inter cooler & After cooler

367) Gear case of Alco locomotive is lubricated by (d)

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

368) Number of transitions in AC-DC locomotive (a)

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

369) __type of fire extinguisher is provided in DE locomotives (b)

a) Foam b) DCP c) water d) CO2

370) ECC (Edddy Current Clutch) is located in (b)

a) Compressor room b) Radiator room

c) Engine room d) Generator room

371) LLOB is provided in governor (a)

a)Woodward b) GE c) MCBG d) EP

372) If OSTA trips, engine will come to (b)

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

373) Sanders test on WDG3A to be conducted by keeping reverser handle in____position (d)

a) Neutral b) Forward c) Reverse d) 'b' or 'c'

374) Compressor efficiency test is conducted by using ____ mm test orifice (b)

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

375) COS (Centrifugal Oil Separator) is provided in __ system (b)

a)Fuel oil b) lube oil c) air intake system d) none

376) Lube oil pump is driven by (a)

a) gear b) chain c) electric motor d) none

377) Water pump is driven by (a)

a) gear b) chain c) electric motor d) none

378) In Alco loco Wood ward governor is located at (b)

a) Engine left side power take off end

b) Engine right side power takeoff end

c) Engine left side free end

d) Engine right side free end

379) Fuel oil tank capacity in WDG3A locomotive (in liters) (b)

a) 5000 b) 6000 c) 3000 d) 4000

380) In WDM3A fuel oil primary filter is located in (a)

a) Compressor room b) Engine room

c) Radiator room d) under truck

381) Working of compressor lube oil pump is indicated by (c)

a) Breather valve b) Spy glass

c) Projection of brass spindle d) Sight glass

382) Compressor crank case vacuum is maintained by (a)

a) Breather valve b) spy glass

c) Brass spindle unit d) CCEM

383) In Alco loco BKBL is located in (c)

a) Engine room b) Compressor room

c) Nose compartment d) Radiator room

384) In air brake train when BP is dropped_____will connect to brake cylinder for brake application (b)

a) Control reservoir b) Auxiliary reservoir

c) Main reservoir d) none

385) Feed pipe is getting charged by_____valve (c)

b) C2w relay b) F1 selector c) C2N d) C2W DV

386) The super charged air in the air manifold is called (a)

c) BAP b) CAP c) FP d) BP

387) What is the effect if A9 is applied in emergency position? (b)

d) AFL operates b) Engine Idle with full brakes

c)Only loco brakes get applied d) No effect

388) In WDG4 locomotive Compression ratio is _____ (d)

a) 12:1 b) 12.5: c) 11.75:1 d) 16:1

389) BP pressure WDG4 locomotive is___kg/cm² (c)

a) 3.5 b) 5 c) 5.2 d) 8

390) Horse Power of WDG4 locomotive (d)

a) 3000 HP b) 4000 HP c) 3500 HP d) 4500 HP

391) Type of diesel engine in WDG4 locomotive (b)

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

392) Pinion to Bull gear ratio in WDG4 locomotive (d)
a)18:65 b) 17:77 c) 18:74 d) 17:90

393) Pinion to Bull gear ratio in WDP4 locomotive (b)
a)18:65 b) 17:77 c) 18:74 d) 17:90

394) Maximum speed of WDG4 locomotive (a)
a) 100 b) 150 c) 160 d) 180

395) Maximum speed of WDP4 locomotive (c)
a) 120 b) 150 c) 160 d) 180

396) Transmission in WDG4 locomotive is (b)
a)DC-DC b) AC-AC c) DC-AC d) AC-DC

397) Fuel tank capacity in WDG4 locomotive (c)
a)4000 b) 5000 c) 6000 d) 7000

398) Type of diesel engine fitted WDG4 locomotive (c)
a) Alco-251 b) GT46PAC c) 710G3B d) GT46MAC

399) Number of cylinders in WDG4 locomotive (b)
a)12 b) 16 c) 18 d) 20

400) Type of traction motors in HHP locomotive (a)
a)AC motors b) DC motors c) both A & B d) None

401) ____type of speedometer is available in HHP locomotive (b)
a) Mechanical b) Radar sensor c) Electrical d) Electronic

402) In WDG4 locomotive compressor is cooled by (b)
a) Air b) Water c) Oil d) Nature

403) Number of positions of Auto brake in WDG4 locomotive (c)
a)2 b) 4 c) 5 d) 3

404) In WDG4 locomotive hot oil detector is set at___°C (b)
a)100 b) 126 c) 150 d) 180

405) Blended brake is available in_____locomotive (b)
a)WDG4 b) WDP4 c) WDG3A d) WDM3A

406) Lube oil sump capacity in WDG4 locomotive (in liters) (d)
a)1000 b) 1100 c) 910 d) 1457

407) Full RPM of WDG4 locomotive (c)

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

408) Idle RPM of WDG4 locomotive (b)

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

409) Low Idle RPM of WDG4 locomotive (a)

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

410) Coolant water capacity in HHP locomotive (c)

a)1000 b) 1100 c) 1045 d) 1145

411) Minimum continuous speed of WDG4 locomotive (in Kmph) (b)

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

412) Type of bogie in WDG4 locomotive (b)

a) Single suspension b) Double suspension c) Triple suspension

d)None

413) In HHP loco fuel oil system which type of injectors are provided (a)

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

414) In HHP locomotive cylinder head of engine is equipped with (c)

a) Inlet & Exhaust Valves b) Only Inlet valves

c) Only Exhaust valves d)None

415) In HHP locomotive Turbo charger is driven by (c)

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

416) Number of Lube oil pumps in HHP locomotive (d)

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

417) In HHP locomotive air compressor lube oil sump capacity(in Liters) (a)

a) 10 b) 12 c) 15 d) 20

418) Type of bogie used in HHP locomotive (c)

a) Fabricated b) Cast steel c) HTSC d) None

419) Type of Air brake system in HHP locomotive (c)

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

420) In HHP locomotive if water pressure is less (c)

b) LLOB trips b) Low water pressure button will trip

c) Both a & b d) None

421) In HHP locomotive, while conducting Air brake self test working control stand L/T switch should be kept in_____position (c)

c) Test b) HLPR c) Lead d) Trail

422) In HHP locomotive, while conducting BP leakage test L/T switch should be kept in _____position (a)

d) Test b) HLPR c) Lead d) Trail

423) In WDG4 banker loco working control stand Auto brake handle should be kept in _____position (c)

e) Release b) Run c) FS d) Emergency

424) In WDG4 banker loco working control stand L/T switch should be kept in _____ position (c)

f) Lead b) Trail c) HLPR d) Test

425) In HHP locomotive, oil visibility in bypass sight glass indicates (b)

g) Primary filter choked b) Spin on filter choked

c) Lube oil filter choked d) Lube oil strainer choked.

426) In HHP loco, choking of fuel oil primary filter is indicated by (a)

a) Filter condition gauge b) oil visibility in bypass sight glass

c) Both A & B d) None

427) In WDG4 MU trailing loco, L/T switches in both control stand should be kept in (d)

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

428) Firing order of HHP locomotive (a)

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

429) Loco model of WDG4 (b)

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

430) Loco model of WDP4 (a)

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

431) Number of cylinders of air compressor in WDG4 loco (b)

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

432) Number of batteries in WDG4 loco (c)

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

433) Number of batteries in WDP4 loco (b)

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

434) Number of axles in WDP4 loco (b)

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

435) Number of positions in Direct Brake of WDG4 loco (a)

a) 02 b) 04 c) 05 d) 06

436) In WDG4 loco exhaust gas temperature reaches up to (a)

a) 538ºC b) 438ºC c) 338ºC d) None

437) Number of radiator fans in HHP locomotive (a)

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

438) Number of water pumps in HHP locomotive (a)

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

439) Number of brake blocks in HHP locomotive (c)

a) 08 b) 10 c) 12 d) 24

440) Brake cylinder pressure in HHP locomotive (in Kg/cm^2) (b)

a) 5.0 b) 5.2 c) 3.5 d) 3.0

441) In HHP locomotive hand brake applies on wheels (a)

a) R4,R5 b) R4,L4 c) R4,R6 d) L4,L5

442) Diameter of new wheel in HHP locomotive (in mm) (b)

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

443) To check engine sump oil level, engine should be in_____condition (b)

a) Shut down b) Idle c) 4^{th} Notch d) 2^{nd}Nothch

444) Number of after coolers in HHP locomotive (a)

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

445) Number of water expansion tanks in HHP locomotive (b)

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

446) In HHP loco, if LLOB is in tripped position during cranking engine will (d)

a) Crank b) not Fire c) not Hold d) not Crank

447) In WDG4 loco, location of Battery Knife Switch is (b)

a) In Accessories room b) On foot plate c) Driver cab d) ECC-3

448) In HHP loco, if AGFB tripped (c)

a) Battery will discharge b) Load meter will not respond

c) Both a & b d) Engine will shut down

449) Total no. of Batteries in WDP4 loco (a)

a) 10 b) 02 c) 08 d) None

450) In HHP loco engine starting switch is located in (a)

a) ECP b) Engine room

c) Control stand d) None

451) In WDG4 loco, Radiator fan controlled by (a)

a) EM2000 b) TCC c) Both A & B d) None

452) In WDG4 loco HP input to Traction motors is (b)

a) 4000 b) 3726 c) 3100 d) 3900

453) In WDG4 loco compressor is cooled by (d)

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

454) In WDG4 loco turbo is cooled by (c)

b) Nature b) Air c) Oil d) Water

455) While on run if airflow indicator shoots up with jerk, it indicates (b)

c) AFI defect b) parting taken place c) spring broken d) moisture in air

456) For quick charging of BP in WDG4 loco,_____is used. (d)

d) SP1/SP2 b) SW1/SW2 c) Foot pedal d) Auto Brake Release

457) __brake available only in WDP4. (c)

e) Computer brake b) Vigilance brake c) Blended brake d) Tread brake

458) Blended Brake is a mixture of (b)

a) Vacuum + Air b) Formation + Dynamic + Loco

c) Formation + Loco d) Dynamic + Loco

459) In WDP4 loco when loco is moving in opposite direction to
the reverser position_____will happen soon the speed increases to 5 kmph. (a)
a) Dynamic brake comes into action b) Alerter will come into function
c) Power ground will take place d) loco will shut down

460) When wheel is floated speed is restricted to_____kmph. (b)
a) 25 b) 30 c) 35 d) 40

461) Excess brake cylinder pressure can cause (c)
b) Quick speed dropping b) Train brakes not required
c) Wheel skidding d) Dynamic brake not necessary

462) In fuel oil system_____type of filters are used (d)
c) Socks type b) Foam type c) Mesh type d) Paper type

463) In HHP loco Dead engine coc is located in (c)
d) Control stand b) under truck c) Brake bay rack d) compressor room

464) In HHP loco conjunction brake pressure is_____kg/cm² (b)
a)3.5 b) 1.8 c) 5.0 d) 5.2

465) In WDG4/WDP4 loco Radar magnet valve is located in (c)
a) Nose compartment b) Compressor compartment
c) Clean air compartment d) Radiator compartment

466) In HHP loco MVCC is connected in_____line (b)
b) MR2 b) MR1 c) BP d) FP

467) MREQ pressure is charged from (a)
c) MR1 b) MR2 c) control air d) FP

468) Sanders are operated from (a)
d) MR1 b) MR2 c) MREQ d) BCEQ

469) Horns are operated from (a)
e) MR1 b) MR2 c) MREQ d) BCEQ

470) Sanders are operated from (a)
f) MR1 b) MR2 c) MREQ d) BCEQ

471) Swept volume of one cylinder in WDG4/WDP4 loco (in cu. Inch) (b)
a) 657 b) 710 c) 954 d)1000

472) No. of engine cylinders in HHP loco (c)
a) 8 b) 12 c) 16 d) 20

473) Main components of CCB 1.5 brake system are (d)
g) BVC b) VCU & CRU c) PCU & KE valve d) all of the above

474) Total no. of keys in EM2000 display panel are (d)
a) 8 b) 10 c) 12 d) 16

475) No. of radiator fans in WDG4 loco (b)
a) 01 b) 02 c) 03 d) 4

476) When computer controlled breaker is recycled the disabled speed sensor (d)
h) Remained disabled b) gets enabled but not to be disabled again
c) Remained disabled but to be enabled d) get enabled & has to be disabled

477) Break warning indication (b)
a) Excessive main alternator current
b) Excessive breaking current in DB
c) Excessive air braking
d) None

478) When reverser is thrown in forward direction sanders of (d)
a) No 3 & 6 only work b) all sanders work
c) Sanders work irrespective of reverser
d) No 1 & 4 only work

479) BP continuity not getting to train from a working WDG4 loco (d)
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

480) Type of lubrication system used in diesel loco (b)
c) Splash lubrication b) Force feed lubrication
c) Force feed & splash d) Capillary lubrication

481) To check lube oil level in engine sump, engine should be in (c)
a)Shut down b) 4^{th} notch c) Idle d) 2^{nd} notch

482) Diameter of new wheel in WDG4 loco (in mm) (b)
a) 1090 b) 1092 c) 1100 d) 1080

483) When there is communication link failure and micro air breaker (b)
is active, the loco will work
d) as lead in b) only in trail mode c) in both modes d) in Helper mode

484) To recover PCS, it is compulsory to keep (d)
e) 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

485) MR pressure dropping on run due to (d)
f) Air dryer defective b) Auto drain vale malfunctioning
c) BC pipe damaged d) all the above

486) MR pressure not building up due to (d)
g) MREq coc in open condition
h) EBT valve defective
i) Defective MVCC
j) All the above

487) Type of bogie in WDG4 locomotive (b)
k) BO-BO b) CO-CO c) BO1-1BO d) fabricated

488) Location of lube oil cooler in HHP locomotive (a)
l) Equipment Rack b) Radiator room
c) Compressor room d) Engine room

489) Location of lube oil filter in HHP locomotive (a)
m) Equipment Rack b) Radiator room
c) Compressor room d) Engine room

490) Location of fuel oil primary filter in HHP locomotive (a)
n) Equipment Rack b) Radiator room
c) Compressor room d) Engine room

491) Location of water expansion tank in HHP locomotive (a)
o) Equipment Rack b) Radiator room
c) Compressor room d) Engine room

492) In CCB 1.5 fault code will be displayed in (c)
a)VCU b) PCU c) CRU d) BVC

493) In computer controlled brake system, operation of bail off ring will nullify (d)
p) Loco brake b) Formation brake c) Dynamic brake d) Conjunction brake.

494) In HHP loco MU STOP button is located in (b)
a) ECC1 b) Control console 2 c) ECC2 d) ECC3

495) In HHP loco Control & FP switch is located in (b)
a) ECC1 b) Control console 2 c) ECC2 d) ECC3

496) In HHP loco driver back up valve is located in (c)
b) Nose compartment b) Compressor compartment
c) Driver cabin d) Radiator room

497) In HHP loco baggie type fiber glass filters are located in (c)
c) Compressor compartment b) Radiator compartment
c) Clean air compartment d) Equipment rack

498) In HHP loco Lube oil cooler is located in (d)
a) Engine room b) Compressor room
c) Radiator room d) Equipment rack

499) In HHP loco Lube oil filter is located in (d)
a) Engine room b) Compressor room
c) Radiator room d) Equipment rack

500) In HHP loco water expansion tank is located in (d)
a) Engine room b) Compressor room
c) Radiator room d) Equipment rack

501) In HHP loco fuel oil primary filter is located in (d)
a) Engine room b) Compressor room
c) Radiator room d) Equipment rack

502) To reset VCD Reverser should be in_____position (d)
a) Neutral b) Forward c) Reverse d) b or c

503) Purpose of APU is to save (a)
a) Fuel b) Lube oil c) crew d) all of the above

504) If engine is cranking but not firing with indication what may be the reason? (a)
a) LWS Operated b) OSTA Tripped c) SAR Defective d) All the above

505) If engine is cranking but not firing while starting what may be the reason? (d)
b) FPM not working b) Fuel Booster Pump defective
c) Love joy coupling defective d) All the above

506) What is the reason if engine is cranking but not firing? (d)
a) Governor booster pump defective b) Love joy coupling defective
c) No Governor oil in tank d) All the above

507) What is the reason if engine is cranking, firing but not holding? (d)
a) SAR Inter lock defective b) OPS Defective
c) Lube oil system defective (Below1.6Kg/Cm2) d) All the above

508) What should be checked if engine shutdown with over speed? (a)
a) OSTA b) SAR c) Governor Amphenol plug d) Fuel pump motor

509) What should be checked if engine shutdown on run with indication? (b)
a) OSTA b) LWS c) SAR d) Governor Amphenol plug

510) What happens if Amphenol plug is slack on run in WW governor loco? (a)
a) Engine Idle, Load meter zero b) Only Load meter zero
c) Only engine idle d) Engine shutdown

511) To get quick charging of BP which should be operated? (b)
a) SW1 &SW2 b) SP1 & SP2 c) MCB1 & MCB2 d) MFPB1 & MFPB2

512) The Procedure for isolation of AFL, when AFL is malfunctioning (d)
b) If isolation switch available switch Off b) If not disconnect171 wire
c) Pack DMR d) All the above

513) How do you adjust control air pressure? (c)
c) A9 Feed valve b) SA9 Feed valve c) Limiting valve d) HS4 Valve

514) If engine shuts down with hot engine alarm which safety device operates? (b)
d) ETS b) LWS c) SAR d) OPS

515) If engine is running with Hot engine alarm which safety device is operated? (c)
e) LWS b) OPS c) ETS d) SAR

516) In AC/DC Locomotives engine is cranked by (b)
a) Main Generator b) Aux. & Exc. Generators
c) Auxiliary Generator d) Exciter Generator

517) In place of AC Gov., which Governor is provided for compressor loading and unloading (a)
a) EPG b) GE c) W.W d) Run-Release

518) By applying A-9 formation brakes are not applying-Reason might be____(a)
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

519) Locos provided with Cast Iron brake blocks requires_____than the (a)
Locos provided with Composite brake blocks
e) More braking distance b) Less braking Distance
c) frequent change of brake blocks d) BC pressure 3.8kg/cm2

520) When LE loco brakes are not applying check (d)
f) SA9 COC b) MU2B c) BC COC &Pressure d) All

521) When loco working as banker the position of MU2B & BP isolation COC (a)
g) Lead & close b) Trail & open c) All d) None

522) Immediate action when BP is not destroying with A9 during controlling of train(b)
h) Open A9 COC in Non-working control stand b) Apply D1Emergency
c) Change the Control stand d) Adjust BP pressure

523) If an Air Brake train stopped on a gradient of 1/400 & above due to any (c)
reason, which brakes should be applied
i) SA 9 only b) A9 only c) SA 9 & A 9 d) Hand brake

524) After detaching Loco from formation which safety aspect should be check (c)
before working LE.
j) Continuity test b) Traction test c) Loco Brake power test d) Leakage test

525) While TOC of Loco, If Flasher light glows but does no blink, what action (a)
would you take.
k) Loco is failed b) Will work to nearest shed
c) Change the bulb d) Work normally

526) What immediate action would you take on noticing sudden drop of BP (c)
pressure/vacuum on run?
l) Stop the train b) Contact Guard on VHF c) Switch on Flasher light d) Inform PRC

527) The lead /Trail switch position in consol of WDG4/WDP4 working as MU (a)
trailing is
m) Trail b) Lead c) Both d) None

528) If BP & FP pipes are wrongly connected__ will fail. (b)
n) Loco is failed b) Formation Brakes c) Loco brakes d) All

529) What is the initial charging time approximately of a single pipe air brake train (c)
o) 10-15 minutes b) 15-20 minutes c) 20-25 minutes d) 25-30 minutes

530) What is the initial charging time approximately of a twin pipe air brake train? (a)
p) 10-15 minutes b) 15-20 minutes c) 20-25 minutes d) 25-30 minutes

531) Are BP & FP angle cocks to be kept OPEN always in an isolated coach/wagon of an air brake train? (a)
q) Yes b) No c) None of two above d) Above all

532) Loco should not be moved if water level above rail is (a)
a) 4 inches b) 3 inches c) 1 inch d) 2 inches

533) Side load pads are provided in this type of under truck (b)
b) Tri mount bogie b) Fabricated bogie c) HTSC bogie d) both b and c

534) Eddy current clutch is located in (d)
a) Nose compartment b) Control compartment
c) Compressor room d) Radiator room

535) ERF should be put ON when (d)
b) ECC is defective b) R1 & R2 defective
c) TS-1&TS-2Defective. d) Both b and c

536) If radiator fan is not working during continuous hot engine alarm switch ON (a)
c) ERF b) LWS c) DMR d) TR A

537) In M.U. operation if trailing loco ¾" coc alone kept in open position (d)
a) BP will not destroy in any position b) BP will destroy only in emergency position
c) Loco brakes will not apply d) BP will not create to 5 kg/cm2

538) Engine should not be cranked if it is shut down for more than (c)
a. 24 hrs. b) 16 hrs. c) 48 hrs. d) 32 hrs.

539) In Alco locomotive Lube oil filter is located in (d)
b. Nose compartment b) Expresser room c) Engine room d) Radiator room

540) If MCBG power breaker is in OFF position during cranking engine will (b)
c. not Crank b) not Fire c) not Hold d) a and b

541) Alco loco fuel pump motor is located in (c)
d. Nose compartment b) Radiator room c) Compressor room d) Engine room

542) Control air pressure is adjusted by (d)
e. A9 Feed valve b) F1 selector valve c) NS 16 governor d) Limiting valve

543) If inlet valve of HP cylinder is struck up in closed position(b)
f. MR safety valve will blow b) Inter cooler safety valve will blow
c) Auto drain valve will blow d) Both a and b

544) LWS emergency switch should be switched 'ON' if (b)
a) Water level is less than 1" from bottom b) Float is punctured
c) Continuous hot engine alarm d) Both a and b

545) While working twin pipe air brake train if BP metallic pipe is damaged (a)
a) By passing to be done b) Work with FP alone
c) Detach the coach after clearing section d) Both b and c

546) In Air brake passenger train if BP metal pipe is damaged (c)
b) Work with single pipe b) Work further by passing the coach
c) Both a and b d) Work with FP alone

547) Sensitivity of DV is (a)
c) 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

548) Insensitivity of DV is (b)
d) 0.6 kg/cm2 in 6secs b) 0.3 kg/cm2 in 60secs
c) 0.6 kg/cm2 in 60secs c) 0.5 kg/cm2 in 60secs

549) In M.U operation in Air brake loco, conjunction working in leading loco will(b)takes place through
e) 28 VB b) C3WDV c) A1 differential valve d) F1 selector valve

550) If A9 coc is closed in both control stands (a)
f) BP will not create b) BP will destroy only in emergency
c) Loco brakes will not release d) BP will not destroy

551) In MU operation during A9 application, trail loco brakes gets applied (b)
through
g) C3W DV b) F1 selector c) Additional C2relay valve d) Both a & c

552) While working an air brake train if engine shuts down on run (c)
h) The train brakes will apply automatically
i) Apply A9 and release after train comes to stop
j) Keep A9 in Emergency position until the trouble is rectified
k) Apply loco brakes alone

553) In IRAB-1 brake system conjunction working of loco brakes takes place (b)
through
l) 28 VB valve b) C3W DV c) A1 differential valve d) VA1B control valve

554) In MU trailing loco if 3/4" coc alone is kept in open position (b)
m) BP will not destroy b) BP will not create upto 5.0 kg/cm2
c) Loco brakes will not apply d) BP will destroy only in emergency

555) If SA9 COC is closed in working control stand (a)
n) loco brakes will not apply b) conjunction brake will not apply
c) loco brakes will apply d) Bp will not create

556) Location of C3W DV in IRAB brake system is (b)
o) B control stand b) Nose compartment c) under truck d) A control stand

557) If brake system coc is kept in closed position. (c)
p) BP pressure will not create b) FP pressure will not create
c) Both a and d d) MR pressure will not indicate

558) In IRAB1 brake system conjunction working of loco brakes takes place through (b)
q) 28 VB valve b) C3W DV c) A1 differential valve d) VA1B valve

559) If brake system COC is closed (c)
r) MR gauge will indicate zero b) FP gauge will indicate zero
c) Both a and d d) BP gauge will indicate zero

560) In ALCO locos turbo super charger turbine is rotated by (c)
a) Gears b) Motor c) Exhaust gas d) Clutch

561) Main reservoir safety valve is set at_____kg/cm² (a)
a) 10.5 b)8 c) 9 d) 9.5

562) Reduction in BP pressure causes ___ (c)
b) Brakes release b) Brakes slow release
c) Brakes application d) MR pressure increasing

563) How many kinds of Brakes are provided on Diesel locomotive? (a)

a) 5 b) 10 c) 11 d) 9

564) In HHP locos turbo super charger turbine is rotated by (c)

a) Gears b) Motor c) Gear & Exhaust gas d) Clutch

565) The dead engine cutout cock, mounted on the air brake rack at the front of (c)
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

a) Charges MR2 to5kg/cm2. b) B&C

c) MR2 at1.76kg/cm2 from d) the brake pipe limiting brake cylinder pressure to 1.76kg/cm2

566) After cooler cooled air in air inlet casing is also called as___(d)

a) Control air pressure b) Vacuum control air pressure

c) HS4 pressure d) Booster Air Pressure

567) N 1 Reducing valve/Limiting valve is located in (c)

b) Radiator room b) Compressor room

c) Nose compartment d) Rear compartment

568) The exhaust manifold is connected to_____part of the TSC. (a)

a) Gas Inlet Casing b) Intermediate Casing

c) Turbine Casing d) Blower Casing

569) MR1 & MR2 are equipped bottom mounted automatic drain blow down (a)
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 un loading. b) When penalty brake applied

c) the compressor is loading. d) Micro Air breaker trips

570) FTTM drives with (c)

a) Electric motor b) Belts c) Gear d) Hydraulicpressure

(b)

571) Latest modified lube oil cooler is oftype

a) Drum b) plate c) Paper d) Roll

572) N1 reducing valve is used to control___pressure (c)

b) BP pressure b) FP pressure c) Control Air Pressure d) BC pressure

573) The coupling between right angle gear box & radiator fan is (a)
a) Universal Coupling b) love-joy coupling
c) CBC coupling c) Cam gear

574) What is the minimum clearance required for wheel to brake block during release? (b)
a) 10mm b) 8mm c) 6mm d) 4mm

575) What is the piston travel of brake cylinder in WDM3A loco? (c)
a) 60 to 85 cm b) 85 to 95 cm c) 95 to 105 cm d) 90 to 100 cm

576) In WDG3A locomotives 3/4" COC(BP COC) is located in/at (a)
a) Nose compartment b) Driver cab
c) Short hood control stand d) None of the above

577) One of the following equipment is in Nose compartment (c)
a) MR1 b) MR2 c) Control air pressure reservoir d) All the above

578) "D" solenoid in the Governor is also called___ (a)
a) Shutdown solenoid b) Cranking solenoid c) Tripping solenoid d) Safety solenoid

579) In ALCO Locos Fuel oil crossover flexible pipe is located in (c)
a) Radiator room b) Nose compartment
c) Power takeoff end d) Free end

580) In MU trail loco MU2B position should be (b)
a) Lead b) Trail c) both a & b d) None

581) In Alco locomotive MR cut in pressure (in kg/cm²)(c)
a)5 b) 10 c) 8 d) 6

582) In Alco locomotive MR cut out pressure (in kg/cm²) (b)
a)5 b) 10 c) 8 d) 6

583) No. of lube oil filters in lube oil filter drum of WDM3A loco (b)
a)4 b) 8 c) 10 d) 12

584) In Alco loco lube oil cooler is located in (c)
a) Nose compartment b) Engine room c) Radiator compartment d) None

585) Number of belts in RTTM blower pulley (b)
a)4 b) 6 c) 8 d) 2

586) In Alco loco lube oil pump is driven by (a)

Extension shaft gear b) Electrical motor c) Belt d) none

587) Cam gears are lubricated by (b)

Main header b) Auxiliary header c) both a & b d) None

588) In Wood ward governor loco LLOB tripping is set at_____kg/cm² in Idle (a)

a) 1.3 b) 2.5 c) 3.5 d) 5.0

589) In Wood ward governor loco LLOB tripping is set at_____kg/cm² in 8th notch (c)

a)1.3 b) 2.5 c) 3.5 d) 5.0

590) Air flow indicator gives indication to LP about (b)

a) FP leakage b) BP leakage c) MR leakage d) None

591) L5 HP pipe line is cracked (b)

a) Fail the loco b) Lock rack of L5 c) lock left side racks d) Ignore

592) Hot engine alarm (HEA) will come at__°C in WDG3A (c)

a) 60 b) 70 c) 90 d) 80

593) During one of the following occasions Hot engine alarm indication will get (c)

a) Continuous 8thnotch working b) Excess load

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

594) 1036. Hot engine alarm (HEA) will come at__°C in WDG3A (c)

a) 60 b) 70 c) 90 d) 80

595) During one of the following occasions Hot engine alarm indication will get (c)

a) Continuous 8thnotch working b) Excess load

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

596) LWS is connected to (b)

a) Water left side return header b) Water expansion tank

c) Water right side return header d) All the above

597) ____will be switched automatically in loco, during accidents (b)

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

598) FP pressure in loco shall be_____and in BV_____kg/Sq.cm. (c)

a) 5.0, 4.8 b) 5.0, 4.7 c) 6.0, 5.8 d) 6.0, 5.7

599) What is the color code for the B.P pressure pipe? (c)
a) Black b) Red c) Green d) Yellow

600) DV isolating handle in_____position indicates DV is in isolated position (b)
a) Vertical b) Horizontal c) 60 degrees d) None of these

601) DV isolating handle in_____position indicates DV is in working position(b)
a) Horizontal b) Vertical c) 45 degrees d) None of these

602) When a Train engine is disabled in mid section, Driver should ask for relief engine if he expects that the train engine cannot be put in working order (a)
within_____minutes.
a) 05 b) 10 c) 15 d) None of the above

603) When the speedometer of a running train engine becomes defective (b)
a) Fail the loco b) Work the train by reducing 10%speed from Booked speed
c) Work further with50kmph d) Ask for the relief engine

604) If MU loco's get parted through which valve brake will apply in rear loco? (c)
a) SA-9 b) A-9 c) F1selector d) N1 Reducing

605) The effective Brake Power in case of Mail/Express at the originating station should be __% and enroute can be not less than_% (c)
a) 100, 85 b) 100, 100 c) 100, 90 d) 100, 95

606) The following shall not be used for extinguishing fires on electrical equipment. (c)
a) dry chemical powder b) foam c) water d) none of these

607) What are the present VCD cyclic timings ? (a)
a) 60, 8 and 8 seconds b) 60,17 and 17 seconds
c) 170, 17 and 17 seconds d) 65,8 and 8 seconds

608) What precaution should be taken for conducting Air brake self test in GM locos? (d)
a) Secure loco b) Secure formation
c) Detach loco and secure d) Secure both & don't detach from formation.

609) What should be done first for changing consol in WDG 4 / WDP 4 locos (a)
a) Disable working control stand & enable nonworking control stand
b) Enable working control stand & disable nonworking control stand
c) As per convenience
d) None

610) Manual sander will be working when the unit speed is up to (b)
a) 30.6kmph b) 19.5kmph c) 30kmph d) 25kmph

611) Manual Sanding is cutout when the locomotive is operating in power/wheel creep mode, and moving at speeds above (c)
a) 30kmph b) 10kmph c) 19.5 km/h d) 15kmph

612) If hot oil detector operates,_____Engine comes to (b)
a) Idle b) Shut down c) Load meter zero d) No effect

613) Bail off is provided to release (b)
a) Direct brake application b) Conjunctional brake application
c) Formation brakes d) Both b and c

614) Oil lubricated TM gear case is provided in (d)
a) WDM 2 b) WDM 3D c) WDG 3A d) WDP 4

615) In WDG4 loco LLOB is located in (a)
a) Accessories room b) Compressor room
c) Engine power take off end d) ECC3

616) In WDP4/WDG4 loco if LLOB is in tripped position during cranking engine will (d)
a) Crank b) Not Fire c) Not hold d) Not crank

617) In WDP4/WDG4 loco defective speed sensor should be isolated if (a)
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

618) In WDP4/WDG4 banker loco working C/S, L/T switch should be kept in (c)
a) Lead b) Trail c) HLPR d) Test

619) In WDG 4 if false locked wheel indication is experienced (a)
a) Isolate defective sensor b) Isolate defective truck
c) Isolate defective TM d) Fail the loco

620) In WDP4/WDG4 dead loco for quick release of loco brakes open one side (d)
a) MR equalizing cock b) BC equalizing cock
c) BP equalizing pipe d) Both a & b

621) In WDP4/WDG4 banker loco working control stand A9 should be kept in (a)
a) FS position b) Run position c) Release position d) Emergency position

622) Oil visibility in bye pass sight glass indicates that (b)
a) Primary filter is choked. b) Spin on filter choked.
c) Lube oil filter choked. d) Lube oil strainer choked.

623) In WDP4/WDG4 loco choking of fuel oil primary filter is indicated by (a)
a) Filter condition gauge. b) Oil visibility in bye passes sight glass.
c) Both A & B d) Oil visibility in sight glass near to engine block

624) In WDP4/WDG4 Loco when lube oil temperature exceeds 124°C (d)
a) Hot oil detector operates b) LLOB operates c) OSTA trips d)Both a and b

625) In WDP4/WDG4 loco if water pressure is less (d)
a) LLOB trips b) Low water pressure button will trip
c) Crank case pressure button will trip d) Both a and b

626) In WDP4/WDG4 loco when PCS is knocked out (a)
a) MAB breaker should be recycled b) TCC breaker should be recycled
c) Air drier breaker d) Both a and b

627) Bogie configuration of WDP4 Locomotive is (a)
a) CO-CO b) BO1 - 1BO c) BO-BO d) BU-BU

628) Axle Load of WDG4 Locomotive is (a)
a) 20.5 T b) 22.5T c) 25T d)19.5T

629) Axle Load of WDP4 Locomotive is (d)
a) 20.5 T b) 22.5T c) 25T d) 19.5T

630) HHP Loco Hand brake is applicable for Wheel No. (c)
a) L4,R4 b) L2,R2 c)R4,R5 d)R3,R4

631) Primary stage suspension in WDG4 is accomplished by (b)
a) Shock absorber b) helical coil spring c) Damper d) Load pads

632) Secondary stage suspension is accomplished by (c)
a) Load pads b) damper c) rubber compression springs d) helical coil spring

633) Separation of the truck/bogie assembly from the locomotive in case of derailmentand to provide a means of lifting the truck/bogie assembly along with the carboy is accomplished by (b)
a) Hooks b) Safety links c) Lateral shock absorber d) Springs

634) The soft primary suspension is made up of____No of coil journal springs. (d)
a) 24 b) 6 c) 8 d) 12

635) The un sprung weight of the locomotive car body is transferred directly tothe truck/bogie frame through _____(b)

a) Four Helical springs b) Four rubber compression spring assemblies
c) Four Shock absorber d) Four coil springs

636) In WDP4 /WDG4 loco before conducting air brake self test (a)
a) Recycle MAB b) Recycle TCC1 and TCC2 c) Recycle Air drier breaker.
D) Both a & b

637) In WDP4/WDG4 loco engine should not be cranked when (b)
a) Low water button is tripped b) crank case pressure button is tripped
c) LLOB is in tripped d) OSTA is tripped

638) In WDP4/WDG4 loco load meter will not respond if (c)
a) GFB trips b) AGFB trips c) Both a & b d) MAB trips

639) In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle (c)
a) Isolate the defective TM b) Isolate the defective speed sensor
b) Fail the loco immediately d) Isolate the defective truck

640) In WDP4/WDG4 loco while conducting BP leakage test. L/T switch should (d)be kept in
a) Lead b) Trail c) Helper d)Test

641) Location of Battery Knife Switch in WDG4 Loco is (d)
a) Nose Compartment b) In Accessories Room
c) In LP's cab d) Loco Left Side Foot Plate

642) In WDP4/WDG4 loco while conducting BP leakage test L/T switch should (c)be kept in
a) Lead position b) Trail position c) Test position d) Helper

643) If FOP is dropping due to filter choked (b)
a) By pass secondary Filter b) By pass primary filter
c) Both a & b d) Dummy FIP

644) WDG4 Loco is provided with_____type of bogie (a)
a) three-axle bolster less bogie b)Tri-mount c) Tetra mount d) Flexi coil

645) ---is the main power supply of CCB for the CCB system. (b)
a) DCU b)VCU c) PCU d) DVR

646) Brake cylinder pressure maximum is Kg/Cm2 during backup systema) (a)
3.8 b) 3.2 c) 2.2 d) 5

647) CCB fault code for Brake Pipe Leakage Failure __ (c)
a) 6A b) 6C c) 6B d) 6D C

648) Emergency brake application is accomplished by_____valve provided at the lower left of each console (a)
a)D 1 emergency valve b) Independent brake valve
c) Direct Brake valve d) companion emergency brake

649) MRPT-main reservoir pressure transducer reads pressure_____ (b)
a) Between MR1&MR2 b) MR1 pressure c) MR2 pressure d) FPpressure

650) The EM2000 reads main reservoir air pressure from___transducer. (d)
a) BPT b)BCT c) ERT d) MRPT

651) What is the code for Brake pipe control failure in self test ? (b)
a) 8A b) 6A c)10A d) 22A

652) What is the code for Brake pipe leakage failure in self test? (a)
a) 6B b) 10B c)6F d) 6S

653) What is the function of KE valve in CCB system in WDPG4 Loco motive ? (a)
a) provides pneumatic back Up b) Creation of BP
c) Creation of FP d) Emergency application

654) Why Maximum of 5.2kg/cm2 brake cylinder pressure is used in place of 3.5kg/cm2 as in conventional locos ? (c)
a) High horse power loco b) Speed is more c) A single shoe system is used
d) To have effective brake power

655) Where the booster air pressure stored in Two stroke engine? (a)
a) In air box b) manifold c) tank d) MR

656) De-energising of MVCC means (c)
a) Unloading/unloading of compressor b) Unloading of compressor
c)Loading of compressor d) Tripping of Micro Air breaker

657) Loading and unloading of compressor is controlled by_in WDG4/P4(a)
a)MVCC b) EPG c) RGCP d) None of the above

658) After cranking, allow a minimum of___minutes for starter motor cooling before attempting another engine start. (c)

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

659) Do not crank engine for more than_____with starting motors in HHP. (d)
a) 30seconds b) 1minutes c) 10seconds d) 20 seconds

660) Capacity of Lube oil system of WDP4 class Locomotive is____liters (a)
a) 1457 b) 900 c) 1050 d)1150

661) 8th notch engine RPM of WDP4 (c)
a) 1050 b) 1000 c) 954 d) 915

662) How many number of batteries are there in WDP4 Locomotive (b)
a) 8 b)10 c) 4 d)6 B

663) Low idle RPM of WDP4 engine is _____ (b)
a) 210 b) 200 c) 220 d) 215

664) Lube Oil capacity of Compressor in WDP4 is_____ltrs (c)
a) 9 b) 8 c) 10 d) 12

665) Maximum continuous speed of WDP4 class Loco motive is_____kmph (c)
a) 140 b) 150 c) 160 d) 180

666) Minimum continuous speed at Maximum tractive effort of WDP4 Locomotive(d)
is___kmph
a) 15.5 b) 20 c) 10.0 d) 22.5

667) HP of WDP4 Loco motive is_____HP (a)
a) 4500 b) 3900 c) 3950 d) 3939

668) Normal idle RPM of WDP4 Engine is_____ (b)
a) 290 b) 269 c) 250 d) 296

669) Type of Water Pump in WDP4 ------: (c)
a) AC motor pump b) Air driven pump c) Centrifugal Pump d) Gear pump

670) WDP4 OSTA tripping rpm is: (c)
a) (1155 ± 20) b) (1125 ± 20) c) (1045 ± 20) d) (1100 ± 20)

671) If the LR % is_____EM2000 is reducing power output because the engine's capabilities are less than the load being requested. (**b**)

a) less than 200 b) less than 100 c) 100 More than d) 100 less than 500If the TM temperature is greater than___degree Celsius the inverter will

672) De-rate to keep the traction motor temperature in control (a)

a) 200 b) 100 c) 95 d)92 `

673) Maximum starting effort of WDG4 is_____ (b)

a) 120T b) 54T c) 22T d) 44T

674) Purpose of BWR (brake warning relay) is to (a)

a) To cut out Dynamic brake in case of Over current b) Protect Dyn grid
c) Ensure working of Dyn braking d) All the above

675) Purpose of TEL (Tractive effort limit) Relay in WDG4 Locos is (d)

a) To limit tractive effort to 200KN or 20T b) To limit tractive effort to 250KN or 25T
c) To limit tractive effort to 150KN or 15T d)To limit tractive effort to 294KN or 29.4T

676) The main functions of EM2000 computer is (d)

a) Logic b) Excitation c) Display d) All of the above

677) Tractive effort is transferred from TM to wheel is through ____ (d)

a) Load pads b) Side bearers c) coil springs d) Traction rods

678) How Crank case vacuum is maintained in WDG4/WDP4 engines(EMD)? (c)
a) Blower b) Crank case exhauster c) Eductor d) No vacuum creation

679) Fuel oil primary filter is located at_____ (d)
a)Generator Room b) Engine room c) Radiator Room d) Equipment rake

680) If the pressure across the primary filter element exceeds_____, a bypass valve begins to open, bypassing the primary fuel filter. (d)
a) 1.6kg/cm2 b) 5.3kg/cm2 c) 4.8kg/cm2 d) 2.1kg/cm2

681) When fuel oil pressure at the spin-on filters input rises_kg/cm2, the spin-on filtersbypass valve opens fully and fuel bypasses the engine and return to fuel tank.(b)
a) 5.3kg/cm2 b) 4.2 c) 4.8kg/cm2 d) 3.8kg/cm2

682) What is the Fuel oil tank capacity in WDP4D locomotive in litres. (b)
a) 6000 b) 5000 c) 3000 d)5500

683) WDG4 Engine idle RPM (c)
a) 469 b) 369 c) 269 d)360

684) What is the maximum permissible speed of (designed for) WDG4 locos (b)
a) 150kmph b) 120kmph c)100kmph d)75kmph

685) LOPS setting of WDG4 loco in 8 th Notch (a)
isa) 25-29 psi b) 8-12 psi c) 12-20 PSI d) 20- 30PSI

686) LOPS setting of WDG4 loco in idle is (b)
a) 10 - 12 PSI b) 8-12 psi c) 12-20 PSI d) 20- 30 PSI

687) The purpose of Turbo lube pump in WDP4 Locomotive before cranking is (c)
a) To lubricate the Turbo b) To remove the residual heat
c) To lubricate turbo Bearing d) To lubricate crank shaft

688) Turbo lube pump should be running for_____minutes after engine is shutdown if enginewas running at 5th notch and higher for 60minutes prior to engine shut down. (b)
a) 15 b) 35 c) 20 d) 45

689) __Number of brake blocks are provided on WDG4 (b)

a) 16 b) 12 d) 32 d) 22

690) Lube oil dip stick gauge capacity in WDG4 locos is_____liters. (c)

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

691) MR Cooling coils in WDG4 is located at (c)

a) Under truck b) Engine block c) Radiator room d) Compressor room

692) How many water pumps available in EMD locomotive engine? (d)

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

693) If the coolant temperature reaches____degree C, the locomotive will go tothrottle six limit. (a)

a) 95 b) 92 c) 85 d) 100

694) EPD is Located at _____ (a)

a) Engine Accessories Room b) Engine room

c) Radiator Room d) Equipment rake

695) The EM2000 will consider a temperature probe failed if it reads_____(b)
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

696) The system maintains the coolant temperature within a predetermined range of from (a)
a) 79º C to 85º C b) 85 to 95 c) 92 to 100 d) 72 to 80

697) What precaution should be taken for conducting Air brake self test in GM locos?(d)
a) Secure loco b) Secure formation c) Detach loco and secure
d) Secure both, close BP & FP COC of loco towards formation.

698) What should be the position of L /T switch in trailing loco of WDG4/WDP4 MU? (a)
a) Trail b) Lead c) Both d) Off

699) AGFB Stands for (b)
a) Auxiliary Generator Field Button b) Auxiliary Generator Field Breaker
c)Additional Generator Field Button d)Additional Generator Field Breaker

700) BL KEY Stands for (c)
a) Button Lever Key b) Big Lever Key
c) Box Lever Key d) none

701) CRU Stands for (d)
a) Control Relay Unit b) Centre Relay Unit
c) Constant Relay Unit d) Computer Relay Unit

702) DCL Stands for (b)
a) Direct Circuit Link b) Direct Current Link
c) Digital Current Link d) Digital Circuit Link

703) DIO Stands for (a)
a) Digital Input Output b)Digital Internal Output
c) Direct Input Output d)Digital Interlock Output

704) ECC-1 Stands for (c)
a) Electrical Control Circuit-1 b) Electrical Control Cubical-1
c) Electrical Control Cabinet-1 d) Electronic Control Cabinet-1

705) EPU Stands for (b)
a) Engine Performance Unit b) Engine Pick Up
c) Engine Pressure Unit d) Electrical Pick Up

706) FP RLY Stands for (d)
a) Fuel Pressure Relay b) Failure Protection Relay
c) Full Pressure Relay d) Fuel Pump Relay

707) GTO Stands for (a)
a)Gate Turn Off Thyrister b) Gate Thyrister off
c) Gate Turn On d)Gate Thyrister On

708) IPR Stands for (d)
a) Inverter Protection Relay b) Insulator Protective Resistor
c) Inverter Protective Rod d) Inverter Protective Resistor

709) MMC Stands for (c)
a) Miss Management Case b) Miscellaneous Management Control
c) Miss Management By Crew d) Miscellaneous Management By Crew

710) WDG4D is specially designed for (a)
a) Goods service b) Passenger service c) Mixed service d) None

711) No. Of teeth in HHP loco crank shaft (d)
a) 58 b) 64 c) 113 d) 79

712) WDG4 loco is a (a)
a) Single cab loco b) Dual cab loco
c) Dual cab loco with disc brake d) None

713) In WDG4 left cam gear is driven by (c)
a) right cam gear b) No.1 Idler gear
c) No. 2 Idler gear d) Crank shaft gear

714) Maximum speed of WDG4D loco is___KMPH (b)
a) 100 b) 105 c) 135 d) 160

715) No. of cylinders in HHP loco engine (c)

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

716) Torsional damper is fitted on (a)

a) Front end of engine b) Rear end of engine

c) Front & Rear end of engine d) None of the above

717) Do not pour_____water in HHP loco (b)

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

718) TRD timing of 710G3B TSC is (b)

a) Minimum 30 sec b) Minimum 50 sec

c) Minimum 60 sec d) Minimum 180 sec

719) Modified water pump has (b)

a) Taper bearing b) Ball bearing

b) Both taper & ball bearing d) None

720) To operate sander, air supply is received from (a)

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

721) No. of rollers in clutch assembly (c)

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

722) During setting of TDC pointer, which power assembly is kept at BDC (a)

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

723) In HHP loco exhaust manifolds have___no. of chambers (a)

a) 4 b) 7 c) 8 d) 5

724) Low viscosity indicates (a)

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

725) In HHP loco bail off ring is provided on (c)
a) Auto brake handle b) Driver back up valve
c) Direct brake handle d) None

726) Accessory drive coupling retaining bolt is torque at____ft-lbs (b)
a) 450 b) 650 c) 250 d) 750

727) In HHP loco exhaust valve opens at (b)
a) 23° after TDC b) 109° after TDC
b) 180° after TDC d) 43° before BDC

728) Full form of "EMDEC" is (a)
a) Electro Motive Diesel Engine Control
b) Electro Motive Division of Engine Control
c) Electro Motive Diesel & Electric Control
d) None of the above

729) Length of WDG4D locomotive is_____meters(a)
a) 22.98 b) 21.54 c) 21.7 d) 19.5

730) To operate MVCC, air supply is received from (a)
b) MR1 b) MR2 c) BP d) FP

731) In HHP loco mainly which governor is fitted (a)
a) Woodward governor b) MCBG c) EH governor d) None

732) HHP locomotive has a (a)
a) 2 stroke engine b) 4 stroke engine
c) Multi stroke engine d) None of the above

733) In HHP loco TSC is fitted in the (b)
a) Front end of the engine b) Rear end of the engine
b) Front or rear end of the engine d) None

734) During EPD testing at Idle engine normally shutdown in_____sec (c)
a) 120 b) 40 c) 60 d) 30

735) No. of radiators fitted in WDP4D loco is (b)

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

736) Radiator fan mounting bolt is torque at____ft-lbs. (b)

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

737) During injector rack setting governor rack should be kept at (a)

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

738) In HHP loco power assembly consists of (d)

a) Cylinder liner b) Cylinder Head

b) Piston ,ring, carrier & connecting rod assembly d) all of the above

739) Liner of HP loco is made of (a)

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

740) Which of the following crank case oils are approved for application in HHP loco engines (d)

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

741) Scavenging pump is a (c)

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

742) No. of starter motors fitted in WDP4D loco is (a)

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

743) Starter motors in HHP loco are (b)

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

744) Starter motors in HHP loco are connected in (b)

a) Series b) parallel c) Series parallel d) None

745) For starting of HHP loco (b)

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

746) Rating of starting motor fuse is (b)

a) 400 A b) 800 A c) 500 A d) None

747) Use of starting fuse is (a)

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

748) Number of piston rings in HHP engine piston (d)

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

749) Black light test is related to (b)

a) Power assembly b) Fuel system
c) Turbo super charger d) Lube oil system

750) During engine starting do not hold the fuel prime/engine start switch (FP/ES) to ESposition for more than_____sec. (a)

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

751) Compressor of HHP loco is (a)

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

752) Compressor efficiency test is conducted with_____mm choke (b)

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

753) In HHP loco inlet port closes at (b)

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

754) In HHP loco water pressure cap is set at_____psi (a)

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

755) For CCB system air supply is received from (b)

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

756) During pre & post lubrication (c)

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

757) Fuel oil primary filter condition gauge having (d)

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

758) DBI of testing of MR tank of HHP loco is done in interval of (c)

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

759) In HHP loco TSC spin on filter is fitted on (b)

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

760) In HHP loco compressor oil level to be checked at (a)

a) Engine run & Idle condition
b) Engine shutdown condition
c) Engine run & 8^{th} notch condition
d) Any of the above

761) In HHP loco lube oil level to be checked at (a)

a) Engine run & Idle condition
b) Engine shutdown condition
c) Engine run & 8^{th} notch condition
d) Any of the above

762) In HHP loco epicyclic gear train is found in (a)
a) Turbo supercharger b) Accessory drive gear train
b) Cam shaft drive gear traind) None of the above

763) WDP4D loco fitted with_____rotating engine (a)
a) Left hand b) Right hand c) Both 'A' & 'B' d) None

764) Injector hand control lever is also known as (a)
a) Lay shaft b) Jacking shaft c) power shaft d) None

765) Number of Main bearings in HHP locomotive (c)
a) 8 b) 9 c) 10 d) 11

766) Up to_notch HHP loco can be raised without load (b)
a) 4^{th} b) 5^{th} c) 6^{th} d) 7^{th}

767) MR efficiency test is related to (d)
a) Power assembly b) MR tank
c) Turbo super charger d) Compressor

768) Marking range on governor terminal shaft scale is (a)
a) 1.96" – 0.62" b) 1.00" – 0.62"
c) 1.02" – 1.96" d) 1.02" – 0.62"

769) No. 9 to 16 power assemblies are (a)
a) Fork type b) Blade type
c) Fork & Blade mixed d) None of the above

770) No. 1 to 8 power assemblies are (b)
a) Fork type b) Blade type
c) Fork & Blade mixed d) None of the above

771) In HHP loco Auxiliary generator drive gear is driven by (a)
a) Right side cam gear b) Left side cam gear
c) No. 2 Idler gear d) No. 1 Idler gear

772) No. of compression rings fitted in HHP engine piston (d)

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

773) In HHP loco both side cam gear rotate (b)

a) in same direction b) in opposite direction

b) in same as crank shaft rotation d) None

774) In HHP loco the relation between crank shaft & cam shaft rpm (a)

a) rpm of cam shaft = rpm of crank shaft

b) rpm of cam shaft = ½ of rpm of crank shaft

c) rpm of cam shaft = ¼ of rpm of crank shaft

d) None of the above

775) No. of critical main bearing in HHP loco (b)

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

776) In HHP loco water drain cock is located in (a)

a) Accessory room b) Under truck loco right

c)Under truck loco left side d) Compressor room

777) HHP locomotive is a (a)

a) Left hand drive loco b) right hand drive loco

b) Both hand drive loco d) None of the above

778) In HHP loco torque value of Alternator mounting bolt is (c)

a) 295 ft-lbs b) 650 ft-lbs c) 1400 ft-lbs d) 2400 ft-lbs

779) Height of rail guard in HHP loco is

a) 4 ½ " b) 5 ½ " c) 6 ½ " d) None (a)

780) Number of air inlet ports in a power assembly (d)

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

781) Compressor of HHP locomotive is a (b)

a) Rotary compressor b) Reciprocating compressor

c) Centrifugal compressor d) None of the above

782) OSTA operation of HP loco is checked in_schedule (b)

a) 30 days & above b) 90 days & above

c) 180 days & above d) Yearly & above

783) Purpose of Torsional damper in HHP locomotive is (a)

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

784) Number of teeth in Sun gear is (a)

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

785) Number of lube oil bypass valves in HP loco lube oil system (b)

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

786) What is the limit of crush height in HHP loco (b)

a) 0.007" – 0.025 b) 0.008" – 0.017"
c) 0.016" – 0.039" d0 0.006" – 0.018"

787) Height of WDP4 loco (over Horn) in meters (a)

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

788) Number of inlet valves fitted in HHP loco power assembly (d)

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

789) Compression ratio of HHP locomotive is (d)

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

790) EPD operation of HHP locomotive is checked in _____schedule (a)

a) 30 days & above b) 90 days & above
b) 180 days & above d) Yearly & above

791) Number of Lube oil pumps in HHP loco (d)

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

792) In HHP loco Tractive Effort limit value is (c)

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

793) Blades of Dynamic brake grids fans are made of (b)
a) Iron b) Aluminium c) Steel d) None

794) Normal LR dropping permitted up to (b)
a) 0.75 b) 0.85 c) 0.95 d) None

795) In HHP loco initial torque value of crab nut is_ft-lbs. (b)
a) 450 b) 400 c) 165 d) 200

796) In HHP loco piston thrust washer minimum permissible thickness is (b)
a) 4.67 mm b) 4.44 mm c) 1.73 mm d) None

797) In HHP loco maximum percentage of total no. of radiator tubes make dummy is (a)
a) 2 b) 4 c) 5 d) 1

798) In Spectrographic analysis of engine lube oil normal range of sodium (Na) is (c)
a) 0 – 75 ppm b) 0 – 50 ppm c) 0 – 30 ppm d) 0 – 20 ppm

799) Model of compressor in HHP locomotive is (a)
a) WLN b) WLG c) WBG d) WBO

800) Model of diesel engine fitted in HHP locomotive is (b)
a) 645 G3B b) 710 G3B c) 710 G3C d) None

801) In HHP loco Hand brake applies to (b)
a) R1 & R2 b) R4 & R5 c) L1 & L2 d0 L4 & L5

802) WLN model compressor has (a)
a) 3 cylinders b) 4 cylinders c) 6 cylinders d) None

803) TSC of HHP locomotive is cooled by (c)
a) Air b) water c) Lube oil d) None

804) Number of Brake cylinders in HHP loco (c)
a) 4 b)6 c) 8 d) 10

805) Number of dowels in fork rod and basket assembly (d)

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

806) Fork rod power assembly is located in which side of engine (a)

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

807) Blade rod power assembly is located in which side of engine (b)

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

808) Pick up time between one radiator fan to another (b)

a) 10 sec b) 20 sec c0 30 sec d) 40 sec

809) Which one is not required for injector rack setting (a)

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

810) Type of water pump fitted in HHP locomotive (a)

a) Centrifugal type b) Reciprocating type
c) Positive displacement type d) None

811) Oil separator in HHP loco is cleaned in_schedule (b)

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

812) Number of oil control rings in HHP engine piston (b)

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

813) Discharge capacity of FPM in HHP locomotive (b)

a) 5 GPM b) 7 GPM c) 10 GPM d) 12 GPM

814) Minimum engine cranking speed for starting (a)

a) 45 – 50 rpm b) 60 – 75 rpmc) 75 – 90 rpm d) 100 – 120 rpm

815) Maximum speed of WDP4 locomotive is_____kmph (d)

a) 100 b) 105 c) 120 c) 160

816) Value of backlash between water pump & Governor drive gear (b)

a) 0.007" – 0.025" b) 0.008" – 0.016"
c) 0.010" – 0.025" d) 0.006" – 0.018"

817) Minimum engine lube oil viscosity (KV) of HHP locomotive (b)

a) 12.8 cst at 100°C b) 13.0 cst at 100°C
b) 18.8 cst at 100°C d) None of the above

818) TRD is related to (d)

a) Lube oil cooler b) Radiator
c) Compressor d) Turbo super charger

819) Value of backlash between Aux. Gen. Drive gear & cam gear (c)

a) 0.007" – 0.025" b) 0.008" – 0.016"
d) 0.010" – 0.025" d) 0.006" – 0.018"

820) Top connecting rod bearing shell is changed after (b)

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

821) No. of 14" expansion joints in HHP loco (b)

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

822) In HHP loco thrust collars fitted in (a)

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

823) Turbine inlet scroll is (a)

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

824) In HHP loco lube oil level to be checked at _____temperature (a)

a) 72°C b) 52°C c) 62°C d) None

825) In HHP loco maximum fuel oil is injected at (a)

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

826) How many EBT are fitted in HHP locomotive (a)

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

827) In HHP locomotive compressor over haul on (a)

a) 360 days schedule b) 2 yearly schedule
c) 3 yearly schedule d) 6 yearly schedule

828) Fireman emergency brake handle is located at (a)

a) Both control console/desk b) behind LP seat
c) Behind ALP seat d) None of the above

829) Fuel tank of HHP locomotive is (a)

a) Detachable b) Non-detachable
c) Both detachable & non-detachable d) None

830) In HHP loco fuel injection ends at (b)

a) 47° before BDC b) 0.8° after TDC
c) 15.8° before TDC d) 16.6° before TDC

831) Low Idle RPM of WDP4D locomotive is (a)

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

832) Height of cattle guard in HHP locomotive is (c)

a) 4 ½ " b) 5 ½ " c) 6 ½ " d) None

833) Number of after coolers fitted in HHP locomotive (b)

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

834) Delivery rate of soak back pump in HHP engine (b)

a) 27 LPM b) 57 LPM c) 75 LPM d) None

835) Weight of WDG4D locomotive is (d)

a) 126 Tb) 123 T c) 121.2 T d) 130.2 T

836) ___oil is filled in HHP loco compressor (b)
a) RR 460 b) SP 100 c) RR 606 d) SP 57

837) No. of teeth in No.1 Idler gear is (b)
a) 58 b) 64 c) 69 d)79

838) In HHP loco compressor is cooled by (a)
a) Water b) air c) oil d) None

839) Pre lubrication is related to (d)
a) Power assembly b) Fuel system
c) Turbo Supercharger d) Lube oil system

840) Crush height is measured by (c)
a) Vernier Calliper b) Outside micrometer
b) Feeler gauge d) Height gauge

841) In HHP locomotive specified limit of exhaust gas temperature is (a)
a) 315°C - 400°C b) 435°C - 535°C
b) 490°C - 590°C d) None of the above

842) Torque value of exhaust manifold to expansion joint bolt is (c)
a) 50 ft-lbs b) 75 ft-lbs c) 80 ft-lbs d) 190 ft-lbs

843) In spectrographic analysis of engine lube oil, high range of (d)
Copper(Cu) indicates
a) Internal water leakage b) inefficient air filtration
b) Cylinder liner water d) bush & bearing wear

844) Kinematic viscosity of lube oil is checked at (d)
a) 40° C temp b) 100° C temp c) 40° F temp b) both a & b

845) Unit of kinematic viscosity is (a)
a) CST b) UST c) MST d) PPM

846) In HHP loco compressor lube oil pump is (b)
a) Belt driven b) Gear driven c) chain driven d) all of the above

847) No. of marks in HHP loco compressor oil dipstick(modified) gauge (b)
a) 2 b) 3 c) 4 d) None of the above

848) Control system used in HHP locomotive is (d)
a) EMD b) Medha c) Siemens d) all of the above

849) Shot peening process is done in piston ring to improve (a)
a) Fatigue strength b) Tensile strength
c) Compressive strength d) None of the above

850) Gear case oil capacity of WDP4D locomotive is (b)
a) 7.5 litres b) 8.5 litres c) 9.5 litres d) 9.8 litres

851) Gear case oil capacity of WDG4D locomotive is (a)
a) 7.5 litres b) 8.5 litres c) 9.5 litres d) 9.8 litres

852) In HHP loco value of cylinder head valve seat angle is (a)
a) 30°00' - 30°15' b) 45°00' - 45°15'
b) 60°00' - 60°15' d) None of the above

853) POP test is conducted to check the performance of (a)
a) Injector b) TSC c) Lash adjuster d) Air dryer

854) Water leakage from air box drain pipe indicates (d)
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

855) VCD cycle consists of (d)
a) T0 – Vigilance cycle
b) T1 & T2 – Warning cycle
c) T3 & T4 Penalty brake cycle & Penalty brake reset
d) Al of the above

856) Minimum lube oil level of HHP loco compressor is (b)
a) 5 litres b) 6 litres c) 8 litres d) 9.8 litres

857) T0 – Vigilance cycle is called (a)

a) Vigilance cycle b) Warning cycle

b) Penalty brake cycle d) all of the above

858) T1 – Vigilance cycle is called (b)

a) Vigilance cycle b) Warning cycle

c) Penalty brake cycle d) all of the above

859) T2 – Vigilance cycle is called (c)

a) Vigilance cycle b) Warning cycle

c) Penalty brake cycle d) all of the above

860) T4 – Vigilance cycle is called (c)

c) Vigilance cycle b) Warning cycle

d) Penalty brake reset cycle d) all of the above

861) Duration of T0 cycle is (a)

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

862) Duration of T1 cycle is (b)

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

863) Duration of T3 cycle is (b)

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

864) In HHP loco duration of suction period is (a)

a) 87° b) 113° c) 16.6° d) 138°

865) Air dryer is fitted (b)

a) Before MR1 reservoir b) Between MR1 & MR2 reservoir

c) Between MR2 & CCB system d) after MR2 reservoir

866) Final torque value of Crab nut is (d)

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

867) Compressor lube oil dipstick is located on the (a)

a) Left side of the locomotive b) Right side of the locomotive

c) Both side of the locomotive d) None of the following

868) Length of WDP4D locomotive is_____meters (a)

a) 22.98 b) 21.24 c) 21.7 d) None of the above

869) In HHP locomotive compressor air intake filter is changed during (d)

a) 30 days & above schedule b) 60 days & above schedule

c) 90 days & above schedule d) 180 days & above schedule

870) Free air delivery of GD air compressor is_____LPM (c)

a) 4000 b) 5000 c) 6000 d) 9000

871) OSTA of HHP (4500 HP) locomotive is set at (c)

a) 1035 – 1050 rpm b) 1035 – 1075 rpm

c) 1085 – 1100 rpm d) 1185 – 1220 rpm

872) OSTA of HHP (4000 HP) locomotive is set at (a)

a) 1035 – 1050 rpm b) 1035 – 1075 rpm

c) 1085 – 1100 rpm d) 1185 – 1220 rpm

873) HHP locomotive brake block is made of (c)

a) Cast iron b) Fibre c) Composite material d) None of the above

874) In HHP locomotive pilot stud of liner is located at (a)

a) 5 o' clock position b) 6 o' clock position

b) 12 o' clock position d) 13 o' clock position

875) Maximum speed of WDG4D locomotive (in kmph) (b)

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

876) In HHP loco when OSTA is set, reset handle rest at (a)

a) 11 o' clock position b) 13 o' clock position

c) 12 o' clock position d) None of the above

877) In HHP loco Brake cylinder pressure is adjusted at (c)

a) 1.8 kg/cm² b) 3.5 kg/cm² c) 5.2 kg/cm² d) None

878) In HHP locomotive compression stroke end at (c)

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

879) Torque the rocker arm adjusting screw lock nut approximately (c)

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

880) POH of HHP locomotive is done after (d)

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

881) From initial final torque value, crab nut rotates approximately (b)

a) 120° ± 35° b) 200° ± 35° c) 250° ± 35° d) 360° ± 35°

882) Fuel tank capacity of WDP4D locomotive is__litres (a)

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

883) Function of compression ring (b)

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

884) Maximum permissible limit of fuel oil dilution in HHP lube oil is (c)

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

885) In HHP loco following model Woodward governor is fitted (b)

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

886) Which of the following valve is not fitted in HHP locomotive compressed air system (a)

a) Duplex check valve b) FT1 feed valve
c) NRV d) None of the above

887) Fuel oil primary filter condition gauge needle in Green zone indicates fuel oil differential pressure is (a)

a) 20 ± 2 b) 25 ± 2 c) 30 ± 2 d) None of the above

888) In HHP locomotive inlet port open at (a)

a) 43.5° before BDC b) 107.5° after TDC
b) 180° after TDC d) 67° after BDC

889) To charge feed pipe, air supply is received from (a)

a) MR1 b) MR2 c) BP d) BC

890) No. of teeth in HHP locomotive crank shaft gear is (c)

a) 58 b) 64 c) 79 d) 113

891) No. of exhaust valves in a power assembly (d)

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

892) In HHP locomotive codal life of Turbo Super Charger is (c)

a) 6 years b) 10 years c) 12 years d) 18 years

893) In HHP locomotive for quick charging of BP__ is provided (d)

a) BPSW b) SP1
b) Bail off ring d) Release position of Auto brake handle

894) Maximum speed for clearing the block section with floating/lifting locked axle is (d)

a) 10 kmph b) 15 kmph c) 20 kmph d) 25 kmph

895) Function of exhaust diffuser in TSC is (a)

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

896) Maximum tractive effort of WDP4D locomotive is (b)

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

897) Water temperature maintained in cooling water system of HHP locomotive is (c)

a) 64° - 90° C b) 65° - 91° C c) 79° - 85° C d) None

898) Capacity of governor oil of HHP locomotive (a)
a) 2.25 litres b) 3.79 litres c) 4.5 litres d) None

899) Full form of EBT is (a)
a) Electronic Blow Down Timer
b) Engine Battery Temperature
c) Electric Blowing transducer
d) None of the above

900) Capacity of water tank of HHP locomotive is_____litresa) (c)
a) 275 b) 255 c) 625 d) 1045

901) Number of positions in L/T switch (c)
a) 2 b) 3 c)4 d) 5

902) Brake cylinder Piston stroke length of HHP locomotive is (c)
a) 2" – 2.5" b) 2" – 4.5" c) 2" – 6.5" d) None

903) In HHP loco duration of compression period is (b)
a) 84° b) 113° c) 16.6° d)138°

904) Full form of "EFCO" is (c)
a) Engine Fuel cut Out switch
b) Engine Fuel Conditioning Object
c) Emergency Fuel Cut Off switch
d) None of the above

905) Control stand of HHP locomotive is called (c)
a) Control cabin b) Control desk c) Control console d) None

906) 8^{th} notch RPM of WDP4D locomotive is (c)
a) 269 b) 904 c) 954 d) 1050

907) Normal gear case oil consumption of HHP locomotive should not be more than (a)
a) 1.0 litre/month /gear case b) 2.0 litre/month /gear case
c) 3.0 litre/month /gear case d) 3.5 litre/month /gear case

908) LR dropping at higher notch, probable reason of it is (d)

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

909) Advantage of installation of APU system is (d)

a) Saving fuel oil b) reduce emission
c) reduce noise pollution d) all of the above

910) Number of cells in a battery of WDP4D locomotive (b)

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

911) Number of cells in a battery of WDG4D locomotive (a)

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

912) Before re-cranking engine, wait for minimum____minutes To cool starter motors (c)

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

913) Number of sand boxes in HHP locomotive (b)

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

914) Minimum flash point of RR-520 is (b)

a) 35° b) 194° c) 240 ° d) 300°

915) To increase OSTA tripping rpm (a)

a) OSTA adjusting spring tension to be increased
b) OSTA adjusting spring tension to be decreased
c) Both ‘a’ and ‘b’
d) None of the above

916) Hard starting may be experienced due to (d)

a) Week battery b) Defective Starter motor

c) Less compression pressure c) Any of the above

917) Maximum speed of traction motor blower of HHP locomotive is controlled by (a)

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

918) Maximum consumable HP of HHP compressor during Unloading at 200 rpm is (a)

a) 2.2 HP b) 22 HP c) 23 HP d) 70 HP

(d)

919) FAD of HHP loco compressor should not be less than

a) 567 LPM at 200 rpm b) 600 LPM at 200 rpm

c) 700 LPM at 200 rpm d) 990 LPM at 200 rpm

920) Turbine seal is located (c)

a) Directly behind the impeller

b) Between turbine blades and compressor bearing

c) Between turbine blades and turbine bearing

d) None of the above

921) Compressor seal is located (b)

a) Directly behind the impeller

b) Between turbine blades and compressor bearing

c) Between turbine blades and turbine bearing

d) None of the above

922) In Siemens control system during dynamic braking, engine raise to_____notch rpm (b)

a) 2^{nd} b) 4^{th} c) 6^{th} d) None of the above

923) No. of planet gears in HHP TSC (c)

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

924) During torqueing of crab nut (a)
a) Torque outboard nuts first then inboard nuts
b) Torque inboard nuts first then outboard nuts
c) Torque the four crab nuts of power assembly crosswise only
d) All of the above

925) "Crush Height Check" is done to avoid the failure of (a)
a) Connecting rod bearing seizure
b) Main bearing seizure
c) Thrust collar seizure
d) All of the above

926) In HHP loco engine cylinders are cooled by (c)
a) Water b) Air c) Supercharged air & water d) Lube oil

927) Maximum tractive effort of WDG4 locomotive is_tons (c)
a) 42 b) 23 c) 53 d) 39

928) Cam of HHP loco is checked in_____schedule (a)
a) 30 days & above b) 60 days & above
c) 90 days & above d) 180 days & above

929) Type of Main Generator fitted in HHP locomotive (c)
a) DC Generator b) single phase AC alternator
c) Three phase AC alternator d) None of the above

930) Type of Traction Motors fitted in HHP locomotive (c)
a) DC series motor b) Single phase AC motor
c) Three phase AC motor d) None of the above

931) Full form of EPD is (c)
a) Engine Position Device b) Engine Parting Device
c) Engine Protection Device d) Engine Patrolling Device

932) In HHP loco Medha control system during dynamic braking, engine raise to_____notch rpm. (a)
a) 2^{nd} b) 4^{th} c) 6^{th} d) None of the above

933) Air box drain pipe is located at (a)
a) Under truck near fuel tank b) Alternator room
c) Compressor room d) Clean air compartment

934) Series of WDP4D is (c)
a) 12 b) 20 c) 40 d) 70

935) WDP4D is a (d)
a) Single cab loco b) Dual cab loco
c) Dual cab loco with disc brake d) Dual cab loco with Hotel load

936) WDP4D is a (b)
a) Single cab loco b) Dual cab loco
c) Dual cab loco with disc brake d) Dual cab loco with Hotel load

937) Function of oil control ring is to (c)
a) Pull the piston down when cylinder is not firing
b) Prevent the compressed air & gases enter in to the crank case
c) Prevent the lube oil entering into the air box & combustion chamber
d) All of the above

938) Only pour_____in the HHP loco (a)
a) DM water b) Raw water c) tap water d) all of the above

939) Full form of DM water is (b)
a) Distilled & Mineralised water
b) Demineralised water
c) Deionised Manufactured water
d) None of the above

940) Do not crank the engine without external pre-lubrication if engine has not been cranked for more than_____hours. (c)
a) 24 b) 36 c) 48 d) 72

941) Don't try to raise the engine before engine coolant temperature has been reached (b)
a) 42° b) 52 c) 62° d) 72°

942) Purging cycle of air dryer is (c)
a) 15 ÷ 1 sec b) 30 ÷ 1 sec c) 60 ÷ 1 sec d) None

943) In HHP loco MR safety valve is fitted at outlet of (a)
a) MR1 b) MR2 c) FP d) MREQ

944) MR safety valve setting is ___ kg/cm² (c)
a) 8.2 b) 9.6 c) 10.6 d) 10.0

945) Maximum speed of WDP4d loco is____kmph (c)
a) 100 b 120 c) 135 d) 160

946) In HHP loco auxiliary generator rotate at (b)
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

947) Engine shutdown with white smoke indicating defect may be in (d)
a) clutch assembly b) TSC c) bearing d) All of the above

948) Length of WDG4 locomotive is (b)
a) 22.98 meters b) 21.24 meters c) 21.7 meters d) None of the above

949) No. of teeth in TSC drive gear is (d)
a) 47 b) 64 c) 37 d) 81

950) Maximum starting tractive effort of WDG4D locomotive is (b)
a) 400 KN b) 540 KN c) 900 KN d) None of the above

951) 4^{th} notch engine rpm WDP4D locomotive is (c)
a) 269 b) 486 c) 572 d) 675

952) Lube oil filter element is a (a)
a) Paper type two stage filter element
b) Paper type filter in tin container
c) Screen type metallic element
d) None of the above

953) In HHP loco long life lube oil filter is changed at (c)
a) 60 days b) 90 days c) 180 days d) None of the above

954) Which type of fuel pump is fitted in HHP locomotive (c)
a) Centrifugal type b) Reciprocating type
c) Positive displacement type d) None of the above

955) Soak back filter is fitted (b)
a) before soak back pump b) after soak back pump
c) 'a' or 'b' d) None of the above

956) Engine piston stroke in WDP4D locomotive is (c)
a) 10" b) 10.5" c) 11" d) None of the above

957) In WDP4/4D locomotive Independent brake application time is (a)
a) 7 - 9 seconds b) 8 - 2 seconds
c) 16 - 30 seconds d) 15 - 20 seconds

958) Which of the following sensor are fitted in the traction motor? (a)
a) Temperature sensor b) Voltage sensor
c) Air Pressure sensor d) All of the above

959) Black smoke from TSC chimney indicates (a)
a) Incomplete combustion of fuel oil
b) Lube oil burning in combustion chamber
c) Water ingress in combustion chamber
d) None of the above

960) Codal life of crank shaft is (d)
a) 6 years b) 10 years c) 12 years d) 18 years

961) Bevel gear is found in which component of HHP locomotive (a)
a) Governor drive b) Sun & planet gear
c) Scavenging pump d) None of the above

962) Which reason is responsible for TSC failure (d)
a) Failure of soak back pump
b) Blockage in the lubricating passage
c) Interruption in completion of soak back pump cycle
d) All of the above

963) Type of transmission in WDG4D (c)
a) DC – DC b) AC – DC c) AC – AC d) None of the above

964) Which of the following changes are done during conversion from 4000 HP to 4500 HP (d)
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

965) Which of the following feed valve is not available in HHP locomotive (c)
a) FT-1 Feed valve b) F-2 Feed valve
c) D24B Feed valve d) All of the above

966) No. of teeth in planet gear is (a)
a) 47 b) 30 c) 26 d) 37

967) Cooling time is related to (b)
a) Lube oil cooler b) Radiator c) Turbo super charger d) Compressor

968) Minimum thickness of air box hand hole collar (b)
a) 3.0 mm b) 3.9 mm c) 4.5 mm d) 5.1 mm

969) In HHP locomotive speed of radiator fan should be in the range of (b)
a) 260 – 1905 b) 1085 – 1100 c) 1035 – 1050 d) None

970) Aspirator hole is provided for (a)
a) Draining purpose of clean air compartment
b) Draining purpose of TCC compartment
c) Draining purpose of compressor compartment
d) All of the above

971) What is the permissible limit of root wear (b)
a) 3.5 mm b) 6 mm c) 5 mm d) None of the above

972) The flat tyre limit for WDP4D locomotive is (a)
a) 50 mm b) 60 mm c) 75 mm d) None of the above

973) More than 50 mm flat tyre, loco should be moved to nearest shed at a Speed of (a)
a) 20 kmph b) 25 kmph c) 30 kmph d) 40 kmph

974) New wheel diameter of WDG4D locomotive is (c)
a) 1092 b) 1095 mm c) 1097 d) None of the above

975) Wooden wedge is a (a)
a) safety item b) safety device c) safety fitting d) None

976) In HHP locomotive duration of fuel injection period is (c)
a) 87° b) 113°c) 16.6° d) 138°

977) Specific gravity of electrolyte of battery is measured by (a)
a) Hydrometer b) Barometer c) Hygrometer d) Voltmeter

978) During Blended Braking (d)
a) Train brake is applied b) Loco brake is applied
c) Dynamic brake is applied d) All the above brakes are applied

979) Gear case joint curing time is (a)
a) 24 hours b) 36 hours c) 48 hours d) None of the above

980) Reason for OSTA tripping at lower rpm is (d)
a) Injector rack may be jam
b) Over speed mechanism may be failed
c) Engine load may be dropped due to electrical malfunction
d) All of the above

981) Reason for oil throwing from TSC chimney may be (d)
a) Damaged power assembly b) Turbo labyrinth seal failure
c) Oil separator screen missing d) All of the above

982) In HHP locomotive yaw damper is also known as (b)
a) Vertical hydraulic shock absorber b) Horizontal hydraulic shock absorber
c) Secondary rubber pad d) None of the above

983) During cranking of engine in cold condition, engine rpm not hold due to (c)
a) Improper adjustment of governor compensation needle valve
b) Worn out Teflon seal of power piston
c) Both a & b
d) None of the above

984) SFC of locomotive depends upon (c)
a) engine performance b) controlling of loco pilot
c) condition of carriage & wagon d) all of the above

985) 1st notch TE of WDP4D locomotive is (a)
a) 35 KN b) 50 KN c) 15 KN d) 25 KN

986) Weight of WDP4D locomotive is (b)
a) 126 T b) 123 T c) 121.2 T d) 117 T

987) No. of batteries in WDP4D locomotive (c)
a) 2 b) 8 c) 10 d) None of the above

988) The sight glass located nearer to the engine block is called (a)
a) Return sight glass b) By-pass sight glass
c) Empty sight glass d) None of the above

989) Type of battery used in WDP4/WDP4D locomotive is (b)
a) Lead acid battery b) Nickel cadmium (NiCd) battery
c) Nickel Metal hydride (NiMH) battery d) Lithium Ion (Li-ion)battery

990) In HHP locomotive for quick firing of engine (c)
a) High horse power FPM is fitted b) TLPM is fitted
c) GBPM is fitted d) None of the above

991) What is the condemning limit of composite brake block is (a)
a) at 10 mm thickness b) at 25 mm thickness
c) at 50 mm thickness d) at 75 mm thickness

992) Firing order of HHP locomotive is (a)
a) 1-8-9-16-3-6-11-14-4-5-12-13-2-7-10-15
b) 1-8-16-9-8-6-14-11-4-5-13-12-2-7-15-10
c) 1-8-9-16-3-6-11-14-2-7-10-15-4-5-12-13
d) None of the above

993) Auto drain valve operate automatically (c)
a) when compressor is unloading b) when EBT valve is energized
c) both a & b d) None of the above

994) Peak firing pressure of locomotive is (c)
a) 350 psi b) 1150 psi c) 1750 psi d0 3500 psi

995) BSFC of HHP locomotive is (a)

a) 158.8 gm/bhp/hr b) 156.0 gm/bhp/hr
c) 152.2 gm/bhp hr d) 154.2 gm/bhp/hr

996) No. 1 radiator fan is called that fan which is (a)
a) nearest to compressor b) farthest from compressor
c) no. specific concept for numbering d) None of the above

997) Minimum torque value of cylinder liner stud (in liner) is__ft-lbs (a)
a) 50 b) 90 c) 190 d) 240

998) Expected water temperature drop through radiator is (c)
a) 5.5°C b) 7.5°C c) 9.5°C d) None of the above

999) Tube of lube oil cooler core is made of (a)
a) Brass b) Copper c) Aluminium d) None of the above

1000) Inter cooler of compressor is used to improve (a)
a) Volumetric efficiency of compressor
b) Cooling efficiency of compressor
c) both 'a' & 'b'
d) None of the above

1001) In HHP locomotive compressor breather is replaced in (b)
a) Every 2 years b) Every 3 years c) Every 6 years d) None

1002) In spectrographic analysis of engine lube oil normal range of Silicon (Si) is (c)
a) 0 – 50 ppm b) 0 – 20 ppm c) 0 – 15 ppm d) 0 – 10 ppm

1003) . The surface on most TSC bearing is (a)
a) Silver plated b) Gold plated c) Zinc plated d) None

1004) During Dead engine movement (d)
a) L & T switch to be kept in "Trail" position
b) In CCB 1.5, dead engine cock to be kept in vertical position from horizontal/ In CCB 2.0, Dead engine cock (DER) to be kept in "IN" position from "OUT"
c) Open MREQ & BCEQ cut out cocks at ant one end of the dead engine
d) All of the above

1005) Bottom connecting rod bearing shell is changed after (c)
a) 2 years b) 3 years c) 6 years d) None of the above

1006) HHP locomotive is fitted with (a)
a) DURACAM b) FE Cam c) Stiffer Unit Cam d) All of the above

1007) In HHP locomotive, oil level capacity of gear case is (b)
a) Same in WDP4 & WDG4 locomotives
b) More in WDP4 loco as compared to WDG4 loco
c) More in WDG4 loco as compared to WDP4 loco
d) None of the above

1008) RPM of governor drive gear is same as (a)
a) Crank shaft rpm b) Main lube oil pump rpm
c) Water pump rpm d) None of the above

1009) To check fuel oil pressure, gauge to be connected on (b)
a) Primary filter housing b) Secondary filter housing
c) Fuel pump motor d) None of the above

1010) If due to any reason, the value of BAP is exceeds its normal value
Then loco will be shutdown through (c)
a) HOD b) Crankcase EPD button
c) Low water EPD button d) None of
the above

1011) In HHP locomotive lest side cam gear is driven by (a)
a) No. 2 Idler gear b) Crank shaft gear
c) Right side cam gear d) None of the above

1012) No. of bull gears fitted in WDG4D locomotive (c)
a) 2 b) 4 c) 6 d) 8

1013) . No. of fuel oil spin on filters fitted in HHP locomotive (b)
a) 1 b) 2 c) 3 d) 4

1014) Where the serial number of crankshaft is written? (a)
a) On the web of both the first and last throws
b) Right side of the main bearing caps
c) Right side of each end “A” frame
d) All of the above

1015) Exhaust screen of HHP locomotive is inspected in which schedule? (b)
a) 30 Days & above schedule b) 90 days & above schedule
c) 180 days & above schedule d) Yearly & above schedule

1016) Purpose of thrust collar in HHP locomotive (a)
a) to limit the longitudinal movement of the crankshaft
b) to limit the vertical movement of the crankshaft
c) to limit the vertical movement of cam shaft
d) none of the above

1017) Discharge capacity of water pump in HHP locomotive is (d)
a) 867 LPM (229 GPM) at 900 rpm
b) 413 LPM (109 GPM) at 900 rpm
c) 1534 LPM (405 GPM) at 900 rpm
d) 3411 LPM (900 GPM) at 900 rpm

1018) Taper stub shaft fitted on (a)
a) Harmonic damper b) Camshaft
c) Main Alternator d) Companion Alternator

1019) To measure the speed of HHP locomotive____is used (c)
a) Axle generator b) Pulse generator c) Radar d) None of the above

1020) In HHP locomotive to create crankcase vacuum (a)
a) Oil separator & Eductor tube is fitted b) CCM is fitted
c) Exhauster is fitted d) All of the above

DEMU

QUESTION BANK WITH ANSWERS-1600 & 1400 HP DEMU

Qn.1. 1600 DEMU Engine model? Ans: (B)

(A) KTA-50-L
(B) QSK-50-L
(C) QSK-38
(D) QSK-60-G

Qn.2. Rated output of 1400 HP DEMU @ 8^{th} notch? Ans: (A)

(A) 1600 BHP
(B) 1400 BHP
(C) 1800 BHP
(D) None of the above

Qn.3.1600 HP DEMU Engine idle/8^{th} notch RPM Ans: (C)

(A) 700/2100
(B) 700/1800
(C) 750/1800
(D) 650/1800

Qn.4. No. of Turbo charges used on 1600 HP DEMU Engine? Ans: (C)

(A) 01
(B) 04
(C) 02
(D) 03

Qn.5. 1600 HP Engine is of which type? Ans: (B)

(A) Fabricated
(B) Casted
(C) Moulded
(D) In-built structure

Qn.6.1600 HP DEMU Engine Type of which cycle? Ans: (A)

(A) 4 stroke
(B) 2 stroke
(C) 1 stroke
(D) 5 stroke

Qn.7. No. of After coolers used on 1600 HP DEMU Engine? Ans: (D)

(A) 02
(B) 01
(C) 03
(D) 04

Qn.8.How many cylinders are there on QSK-50-L Engine? Ans: (A)

(A) 16
(B) 06
(C) 12
(D) 08

Qn.9.What type of cylinders arrangement is on QSK-50-L Engine? Ans: (A)
(A) 'V' Type 60°
(B) 'V' Type 45°
(C) Vertical inline
(D) Horizontal

Qn.10.Cylinder box of QSK-50-L Engine is? Ans: (D)

(A) 150mm
(B) 169mm
(C) 154mm
(D) 159mm

Qn.11. Piston stroke of QSK-50-L Engine is? Ans: (D)

(A) 150mm
(B) 169mm
(C) 154mm
(D) 159mm

Qn.12. Cubic capacity/cylinder of QSK-50-L Engine is? Ans: (B)
(A) 4.12 ltrs/cylinder
(B) 3.13 ltrs/cylinder
(C) 3.18 ltrs/cylinder
(D) 4.18 ltrs/cylinder

Qn.13. Weight of the QSK-50-L Engine? Ans: (B)

(A) 6060 kgs.
(B) 6050 kgs.
(C) 6000 kgs.
(D) 6500 kgs.

Qn.14.Compression Ratio of QSK-50-L Engine? Ans: (A)
(A) 15:1
(B) 20:2
(C) 15:4
(D) 15:9

Qn.15.Inlet valve clearance of QSK-50L-Engine? Ans: (A)

(A) 0.014”
(B) 0.034”
(C) 0.027”
(D) 0.012”

Qn.16. Exhaust valve clearance of QSK-50-L Engine? Ans: (C)

(A) 0.014”
(B) 0.034”
(C) 0.027”
(D) 0.012”

Qn.17.Lube Oil Cooler provided? Ans: (B)

(A) Externally
(B) Internally
(C) Both
(D) None of them

Qn.18. 1400 DEMU Engine model? Ans: (A)

(A) KTA-50-L
(B) KTTA-50-L
(C) NTA 855R1
(D) QSK-50-L

Qn.19. Rated output of 1400 HP DEMU @ 8^{th} notch? Ans: (B)

(A) 1600 BHP
(B) 1400 BHP
(C) 1800 BHP
(D) None of the above

Qn.20. 1400 HP DEMU Engine idle/8th notch RPM Ans: (B)

(A) 700/2100
(B) 700/1800
(C) 720/1900
(D) 650/1800

Qn.21. No. of Turbo charges used on 1400 HP DEMU Engine? Ans: (C)

(A) 01
(B) 04
(C) 02
(D) 03

Qn.22. 1400 HP Engine is of which type? Ans: (B)
(A) Fabricated
(B) Casted
(C) Moulded
(D) In-built structure

Qn.23.1400 HP DEMU Engine Type of which cycle? Ans: (A)

(A) 4 stroke
(B) 2 stroke
(C) 1 stroke
(D) 5 stroke

Qn.24. KTA-50-l Engine, T stands for? Ans: (A)

(a) Turbo Charger
(b) Tin Charger
(c) Both
(d) None

Qn.25.No. of After coolers used on 1400 HP DEMU Engine? Ans: (D)
(A) 02
(B) 01
(C) 03
(D) 04

Qn.26.How many cylinders are there on KTA-50-L Engine? Ans: (C)
(A) 06
(B) 12
(C) 16
(D) 08

Qn.27.What type of cylinders arrangement is on KTA-50-L Engine Ans: (A)

(A) 'V' Type 60°
(B) 'V' Type 45°
(C) Vertical inline
(D) Horizontal

Qn.28.Cylinder box of KTA-50-L Engine is? Ans: (D)

(A) 150mm
(B) 169mm
(C) 154mm
(D) 159mm

Qn.29. Piston stroke of KTA-50-L Engine is? Ans: (D)

(A) 150mm
(B) 169mm
(C) 154mm
(D) 159mm

Qn.30. Cubic capacity/cylinder of KTA-50-L Engine is? Ans: (B)

(A) 4.12 ltrs/cylinder
(B) 3.13 ltrs/cylinder
(C) 3.18 ltrs/cylinder
(D) 4.18 ltrs/cylinder

Qn.31.KTA-50L-Engine Compression pressure at 8^{th} notch on full load? Ans: (A)

(A) 2000p5I
(B) 2500p5I
(C) 3000p5I
(D) 3500p5I

Qn.32.KTA-50-L Engine Compression pressure at Idel? Ans: (A)

(A) 350PSI
(B) 450PSI
(C) 550PSI
(D) 250PSI

Qn.33.Type of piston used in KTA-50-L Engine? Ans: (A)

(A) Single piece (A1 alloy)
(B) Double piece (A1 alloy)
(C) Trible piece (A1 alloy)
(D) None of the above

Qn.34. No. of piston rings used in KTA_50-L Engine? Ans: (B)

(A) Three Nos.
(B) Four Nos.
(C) Two Nos.
(D) One Nos.

Qn.35.The barring mechanism located on which side of KTA-50-L Engine at the fly wheel housing? Ans: (C)

(A) Horizontal
(B) Vertical
(C) Right
(D) Left

Qn.36. Inlet valve clearance of KTA-50-L Engine? Ans: (C)

(A) 0.034”
(B) 0.027”
(C) 0.014”
(D) 0.012”

Qn.37. Exhaust valve clearance of KTA-50-L Engine? Ans: (B)

(A) 0.034”
(B) 0.027”
(C) 0.014”
(D) 0.012”

Qn.38.Injector plunger travel of KTA-50-L Engine is? Ans: (A)

(A) 0.308”$\pm$0.001”
(B) 0.408”$\pm$ 0.002”
(C) 0.208” $\pm$0.003”
(D) 0.508”$\pm$ 0.004”

Qn.39. SFC of KTA-50-L Engine is? Ans: (A)

(A) 154.17gm/BHP/Hr
(B) 158.17gm/BHP/Hr
(C) 159.17gm/BHP/Hr
(D) 153.17gm/BHP/Hr

Qn.40. Water pump is located on which side of the KTA-50L-Engine Ans: (B)

(A) Left side
(B) Right side
(C) Up side
(D) Down side

Qn.41.P.T.Pump is located at KTA-50-L engine? Ans: (A)

(A) Free end Left side
(B) Free end right side
(C) Free end up side
(D) Free end down side

Qn.42. What is the minimum limit of crank shaft end play in KTA-50-L Engine? Ans: (A)

(A) 0.005”
(B) 0.007”
(C) 0.012”
(D) 0.006”

Qn.43. What is the maximum limit of crank shaft end play in KTA-50-L Engine? Ans: (C)

(A) 0.005”
(B) 0.007”
(C) 0.015”
(D) 0.012”

Qn.44. What is the torque valve of cylinder head bolt in KTA 50L Engine? Ans: (D)

(A) 300 FT.lbs
(B) 500 FT.lbs
(C) 350 FT. lbs
(D) 410 FT.lbs

Qn.45. Exhaust gas temperature limit on load at 8^{th} notch is? Ans: (B)

(A) 525˚c
(B) 625˚c
(C) 725˚c
(D) 825˚c

Qn.46.Air Compressor model used in 1400 HP DEMU? ANs: (C)

(A) CRT 2507
(B) TRC 2705
(C) TRC 2507
(D) CRT 2705

Qn.47.Air Compressor Model TRC 2507 is _____? Ans: (B)

(A) Two stage, two cylinder compressor
(B) Two stage, three cylinder compressor
(C) Three stage, two cylinder compressor
(D) Three stage, three cylinder compressor

Qn.48. Compressor lubricating oil system, cooling done by ? Ans: (B)

(A) Water
(B) Air
(C) Both
(D) None

Qn.49.Compressor Cylinders arranged in ___form? Ans: (C)

(A) T
(B) L
(C) V
(D) Both T&L

Qn.50. Volumetric efficiency of Air Compressor_____? Ans (B)

(A) 89%
(B) 79%
(C) 69%
(D) 76%

Qn.51.Grade of Oil used in Compressor_____? Ans: (B)

(A) Servo press 100
(B) Servo Press 150
(C) Servo Press 120
(D) Servo Press 130

Qn.52. Safety valve set pressure in Compressor? Ans: (C)

(A) 10kgf/cm2
(B) 6kgf/cm2
(C) 5kgf/cm2
(D) 3kgf/cm2

Qn.53. Working pressure of 1400 HP DEMU Compressor? Ans: (D)

(A) 10kgf/cm2
(B) 5kgf/cm2
(C) 9kgf/cm2
(D) 7kgf/cm2

Qn.54. Torque required for lock nut of Inley valve of Compressor? Ans: (C)

(A) 25 ft.lbs
(B) 20 ft.lbs
(C) 18 ft.lbs
(D) 15 ft.lbs

Qn.55. DEMU Compressor speed? Ans: (D)

(A) 1050 RPM
(B) 700 RPM
(C) 1400 RPM
(D) 1200 RPM

Qn.56. Top Compression ring of Piston Assembly of Compressor is ? Ans: (D)

(A) Stepped Compression ring
(B) Slotted oil control ring
(C) Plain Compression ring
(D) None of the above

Qn.57. Middle Compression Ring of Piston assembly of Compressor is? Ans: (B)

(A) Slotted oil control ring
(B) Stepped compression ring
(C) Plain compression ring
(D) None of the above

Qn.58. Bottom Compressor ring of Piston Assembly of Compressor is_____? Ans: (A)
(A) Slotted oil control ring
(B) Plain Compression ring
(C) Stopped Compression ring
(D) None of the above

Qn.59.Torque required for lock nut of discharge valve of compressor___? Ans: (B)

(A) 20 ft.lbs
(B) 25 ft.lbs
(C) 18 ft.lbs
(D) 15 ft.lbs

Qn.60. Likely cause for compressor does not nload____? Ans: (C)

(A) Blocked unloader pipe
(B) Defective suction unloader
(C) Both
(D) None of the above

Qn.61. Compressor Piston & Connecting rod are connected each other with ? Ans: (C)

(A) Cotter pin
(B) Split pin
(C) Gudgeon pin
(D) Both (A) & (B)

Qn.62. Unloader assembly of compressor are controlled by? Ans: (B)

(A) Engine RPM
(B) Governor
(C) Throttle
(D) None

Qn.63.No. of slotted oil control piston rings in Compressor? Ans: (C)

(A) 4
(B) 3
(C) 2
(D) 1

Qn.64. When MR drops sufficiently governor assumes? Ans: (B)

(A) Cut out position
(B) Cut in position
(C) No change
(D) None of the above

Qn.65. Arrange correct sequence of operation for compressor? Ans: (C)

(i) Air Suction filter (ii) MR Tank (iii) Safety valve (iv) LP Cylinder (v0 HP Cylinder
(A) BCDE
(B) ACDEB
(C) ADCEB
(D) EDCAB

Qn.66.When desired pressure in MR is reached, Unloader Assembly opens? Ans: (B)

(A) Outlet valve
(B) Inlet valve
(C) Safety valve
(D) None

Qn.67. Connecting rod & Crank shaft assembly of compressor are_? Ans: (C)

(A) Dynamically imbalanced
(B) Statically balanced
(C) Dynamically balanced
(D) Statically imbalanced

Qn.68. Type of lubrication of Compressor? Ans: (C)

(A) Pressurized lubrication system
(B) Splash & Pressurized lubrication system
(C) Splash lubrication system
(D) None of the above

Qn.69. Compressor pulley driven by_? Ans: (B)

(A) Gear
(B) Belt
(C) Bolt
(D) None

Qn.70. _____valve is fitted for intercooler? Ans: (C)

(A) Inlet valve
(B) Outlet valve
(C) Safety valve
(D) None