Multiple Choice Question Bank for JE/DSL-Electrical (against 25% Quota) / Diesel Loco Shed/MLY

1) When continuous wheel slip is experienced due to locked axle (a)
a) Fail the loco immediately b) Isolate the particular axle's TM and work further
c) Clear the section and fail the loco d) Isolate the truck

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) 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

6) In AC/DC if GFOLR trips (c)
a) Engine will shut down b) Load meter will not respond
c) Throttle will not respond d) Both 'b'and 'c'

7) If exciter current exceeds 285 amps (a)
a) GFOLR will trip b) GR2 will trip c) GR1 will trip d) GR will trip

8) In WW governor. loco if PCS is knocked out (a)
a) ERR will de-energies b) ESR will de-energies c) DMR will de-energies
d) Both A & C

9) In AC - DC loco if MB2 trips on run (c)
a)Batteries will get overcharge b)Batteries will get discharge
c)Engine will shut down d)BCA will show 0

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

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

12) 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

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

14) S21 contactor is connected between TM Nos. (a)
a) 3&6 b) 1&4 c) 2&5 d) 3&5

15) In WW Governor loco if tacho generator is defective (b)
a)throttle will not respond b)Load meter will not respond
c)Both a and b d)Engine will shut down

16) During M.U. operation if trailing loco GR-1 trips on run, (c)
the indication in leading loco
a)GR-1 knob projects out b)Bell will ring along with white bulb glowing
c)Load meter will overshoot with alarm bell ringing d)Engine will shut down

17) Continuous working in restricted zone will cause (b)
a) continuous wheel slip b) Power ground
c) Hot engine alarm d) Engine shut down

18) In Medha Microprocessor version III loco Low hauling power will be experienced when (c)
a) TE limit switch is enabled. b) Rectifier fuse blown out
c) Both a & b. d) Power setter switch enabled.

19) In Medha microprocessor loco when one TM is isolated, loco will (a)
a) start with Series parallel combination b) start with Parallel combination
c)start with Parallel with shunt combination d)Loco will not move

20) In Medha version 3 loco, traction motors are isolated through (a)
a) DID panel b)MCOS c)Toggle switch d)By packing reverser bits

21) In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with (b)
a)Series parallel combination b) Parallel combination
c)series parallel with shunt combination d)Parallel with shunt combination

22) In GE Microprocessor Loco load meter will not respond if (c)
a) GFB trips b)ECB trips. c) Both a & b d) CEB trips.

23) In GE microprocessor loco during cranking ECS should be kept in (c)
a) Isolate b)Run c) Start d) Idle

24) In Medha microprocessor loco when traction motor No.5 is isolated (c)
a)S1 will not pick up b)S21 will not pick upc)S31 will not pick up d)P31 will not pick up

25) In GE microprocessor loco if GFB trips on run (b)
a)Throttle will not respond b) Load meter will not respond
c)Both a and b d)Engine will shut down.

26) If MPCB breaker trips DID will become blank in (c)
a) GE microprocessor loco b) Siemens microprocessor loco
c) Medha microprocessor loco d) GM loco

27) In GE microprocessor locos to build up F.O.P (a)
a) EST should be moved to prime position b)ECS should be moved to prime position
c)Both a and b d)EST should be moved to start position

28) In GE microprocessor loco during false locked axle indication (d)
a) Switch On LACS switch. B) Switch On SCO switch.
c) Isolate defective TM. d) Both a & b.

29) In GE microprocessor loco throttle will not respond if (a)
a)ERS breaker trips b)GFB trips c)MCB trips d)MFPB-1 trips.

30) In GE microprocessor loco during level - 1 fault is experienced (d)
a) Bring throttle to idle. b) Toggle DAS switch.
c) Press reset key. d) Both a & c

31) In GE microprocessor loco when automatic fault is experienced (a)
a) Bring throttle to idle. b)Toggle DAS switch.
c) Press Reset key. d) Both b & c.

32) In Medha Microprocessor loco if TM2 & 5 are isolated loco will start with (a)
a) Series-parallel combination b) Parallel combination
c) Parallel with shunt combination d) Series-parallel with shunt combination

33) 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.

34) 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

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

36) 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

37) 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

38) 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

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

40) 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

41) 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

42) 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

43) 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

44) 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

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

46) 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

47) 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

48) In WDP4/WDG4 loco while conducting air brake self test in (c)
working control stand
a)Auto Brake handle should be kept in RUN b)Direct Brake should be kept in Full Application c)Both a and b d)LT switch in Trail

49) 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

50) In Alco loco fuel pump motor is located in (c)
a) Nose compartment b) Radiator room c) Compressor room d) Engine room

51) Throttle will not respond if (d)
a)MB2 trips b)MB1 trips c)AGFB trips d)MCB trips

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

53) Dynamic brakes should not be used when (d)
a)FPC is packed b)Working with manual transition
c)GF emergency switch is put 'ON' d)GFC is packed

54) In single BKT/Rev Loco during DB which power contactors will not pick up ?(d)
a)P2 & P22 b)S21 & S31 c)S1, S21 & S31 d)Both a and b

55) In Alco locomotive DB should not be used when (d)
a)BKBL failedb) Any TM isolated c)GF emergency switch is 'ON' d)Both a and b

56) Dynamic brake will not work if (b)
a)GF emergency switch is put ON b)TM is isolated
c)Working with manual transition d)LWS emergency switch is put ON

57) In GE governor loco during cranking if MUSD is in stop position engine will (d)
a)Crank b)Not fire c)Not hold d)Not crank

58) In WW governor loco not provided with MUSDR relay during cranking if MUSD is in STOP position during cranking engine will (b)
a)Crank b)Not fire c)Not hold d)Not crank

59) In AC/DC loco during cranking, engine will not crank if (c)
a)GR trips b)GR1 trips c)GR2 trips d)GFOLR trips

60) In AC/DC loco if CK1 and CK2 are welded (c)
a)Battery ammeter will show discharge b)Load meter will not respond
c)Both a & b d)Battery ammeter will show overcharge

61) In AC /DC loco engine will not crank if (b)
a) TDR is energized b) CKR1 is not energized
c)CKR2 is not energized d)Both b and c

62) ERF should be switched ON when (c)
a)R1 and R2 contactors not picking up b)ECC coil is open circuit
c)Both a and d d)TS1 & TS2 defective

63) In AC/DC loco if cranking contactors gets welded (a)
a)Batteries will get discharge b)Batteries will get overcharge
c)Engine will get shut down d)Batteries will neither charge nor discharge

64) In AC/DC loco if TDR is in energized condition (b)
a)Throttle will not respond b)Batteries will discharge
c)Both a and b d)Engine will get shut down

65) In AC/DC loco if CK3 gets welded (d)
a) Load meter will not respond b)Batteries will get discharged
c)TH will not respond d)Both a and b

66) In AC/DC loco load meter will not respond if (c)
a)CK1 & CK2 are welded b)CK3 welded c)Both a and b d)GFC is welded

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

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

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

70) In WDG4 loco Hand brake is applied on Wheel Nos._____ (c)
a) L4,L5 b)L2,R2 c) R4,R5 d)R2,R3

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

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

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

74) 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

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

76) 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

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

78) 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

79) 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

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

81) The dN value represents_____ (d)
a)The amount of speed b)The amount of load c)The amount of tourque
d)the amount of wheel slip the system will permit

82) 8th notch speed of WDP4 Engine_____RPM (c)
a)1050 b)1000 c)954 d)915

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

84) Gear ratio of WDP4 is: (b)
a)18:65 b)17:77 c)18:90 d)22:80

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

86) HP of WDP1 is: (d)
a) 1400 b)1800 c)2400 d)2300

87) Low idle RPM of WDP4 engine is _____ (b)
a) 210 b)200 c)220 d)215

88) Maximum continuous current of Traction Alternator is_____Amperes (b)
a)1200 b)1250 c)1150 d)1050

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

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

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

92) Maximum rectified output voltage of Traction Alternator is_____volts (d)
a)2400 b)2500 c)2700 d)2600

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

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

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

96) To isolate TM 1_____power contactor to be isolated (b)
a)P-1 b)P-2 c)P-22 d)P-21

97) To isolate TM 2_____power contactor to be isolated (d)
a)P-1 b)P-2 c)P-22 d)P-32

98) To isolate TM 4___power contactor to be isolated (c)
a)P-22 b)P-31 c)P-1 d)P-2

99) To isolate TM 5____power contactor to be isolated (b)
a)P-22 b)P-31 c)P-21 d)P-22

100) To isolate TM 6___power contactor to be isolated (a)
a)P-21 b)P-31 c)P-22 d)P-32

101) To isolate TM3___power contactor to be isolated (a)
a)P-22 b)P-32 c)P-21 d)P-31

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

103) One of the following is the equipment in Nose compartment (c)

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

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

105) _____circuit breaker establishes local control with power from Locomotive battery or Auxiliary generator to operate heavy duty switch gear, magnet valves, contactor, blower and miscellaneous relays (d)
a)AGFB b)MCB c)GF d) Local control

106) Aux. Gen. F.B. breaker protects the_____ (c)
a)Aux Gen Field b)Input of Comp.Alternator
c)traction alternator field firing control circuit (FCD). d)Traction Alt. output

107) In WDG4 loco, Current rating of Starting fuse_____ (d)
a)600 amps b)1000 amps c)500 amps d)800 amps

108) How many position does PRIME/START switch has_____ (a)
a)3 b)2 c)1 d)4

109) 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)More than 100
d)less than500

110) If the TM temperature is greater than_____°C the inverter will de-rate to keep the traction motor temperature in control (a)
a)200 b)100 c)95 d)92

111) LOCAL CONTROL circuit breaker establishes local (vs. train lined) control with power from the locomotive battery or auxiliary generator to operate heavy duty switchgear, magnet valves, contactors, blowers, and miscellaneous relays. (a)
a)Relay b)Magnetic valves c)contactors d)All of the above

112) Maximum starting effort of WDG4 is_____ (b)
a)120T b) 54T c)22T d)44T B

113) Purpose of BWR (brake warning relay) is to (a)
a)To cut out Dynamic brake in case of Over current
b)Protect Dynamic brake grid
c)Ensure working of Dyn braking
d)All the above

114) 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

115) Shutting down of all diesel engines in a consist is accomplished by ____relay(c)
a)DMR b)GCR c)SDR d)FLR

116) Stepping down of 74 VDC input from the PRG 300 to +/- 15 VDC and distributes the power to the PDPs (Power distribution panels) and the computer display screen is done by (d)
a)PSM 310 b)PSM 330 c)PSM 300 d)PSM 320

117) Stepping down of 74 VDC input from the PRG 300 to +5 VDC and distributes the power to the computer chassis is done by (c)
a)To step down ac to DC b)PSM 310 c)PSM 300 d)PSM 320

118) Stepping down of 74VDC from the PRG 300 to +/- 12 VDC and distributes the power to the computer chassis is done by _____ (a)
a)PSM 310 b)PSM 330 c)PSM 300 d)PSM 320

119) TCC1 COMPUTER breaker provides power and protection to (b)
a)GTO1 b)The No.1 bogie traction inverter (TCC1)computer and associated Circuits c)TM1 d)DCL

120) The function of DC link capacitor is (d)
a)Convert AC to DC b)Convert DC to AC
c)To act as AC link voltage d)To act as buffer to DC link voltage

121) The functioning of VCU is_____ (b)
a)to reduces 73.5 V DC to filtered 25 V DC to CRU b)to reduces 73.5 V DC to filtered 24 V DC to CRU c)to reduces 72 V DC to filtered 25 V DC to CRU d)to reduces 110 V DC to filtered 25 V DC to CRU

122) The main functions of EM2000 computer is (d)
a) Logic b) Excitation c) Display d)All of the above

123) The part of the ground relay system and connected to the companion alternator output, as well as the AC input to FCF (Firing Control Feedback) module is protected by (a)
a)AC control b) Companion Alternator output c)Fan circuits d)Radar circuits

124) The purpose of DVR(Digital Voltage Regulator) is (d)
a)To regulates Companion alternator output
b)To regulates Main Generator
c)None of the above
d)To Regulates auxiliary generator output by controlling auxiliary generator field current

125) The purpose of Ground relay is to protect when_____ (b)
a)A failed group of rectifying diodes b)Development of a Main Gen positive or negative high voltage path to ground c)A & B d)TM Low current

126) In WDG4 loco Tractive effort is transferred from to TM to wheel is through ___ (d)
a)Load pads b)side bearers c)coil springs d)Traction rods

127) "Whenever DC link exceeds 3600volts, the____trips, which fires a hard crow bar (b)
a) Hard Crowbar b)AC control TCC Break Over Diode (BOD)
c)Local control breaker d)GR

128) Whenever DC link voltage exceeds 3200 volts ,the TCC fires a_____crow bar (c)
a)Hard Crowbar b)Sneaky crow bar c)Soft Crow bar d)GR

129) Which module provides an interface for communication between EM2000 locomotive computer, and the SIBAS traction inverter computers (a)
a)COM b)FCF c)PSM d)ADA

130) Which module converts analog input signals (Pressure, Temperature, Voltage, Current, Speed) into digital signals for the computer and converts digital computer output signals into analog signals. (c)
a)DIO b)FCF c)ADA d)FCD

131) In WDM2 locomotives, during cranking, if Normally Closed Interlock of SAR is not getting closed, the result will be_____ (c)
a)Throttle will not respond b)Load meter will not respond
c)Engine will crank and fire but not hold d)Engine will not fire

132) Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be_____ (d)
a)ERF not closed b)R1 and R2 not picked up
c)GFC not picked up d)FPC not picked up

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

134) How many Power Contactors are available in WDG4 Locomotive? (d)
a)7 b)9 c)8 d)0

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

136) What is the maximum permissible speed of (designed for) WDG4 locomotives (b)
a)150 kmph b) 120 kmph c) 100 kmph d) 75 kmph

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

138) 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

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

140) 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

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

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

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

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

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

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

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

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

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

150) 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

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

152) If the coolant temperature reaches____degree C, the locomotive will go to throttle six limit. (a)
a) 95 b) 92 c) 85 d) 100

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

154) The EM2000 will consider a temperature probe failed if it reads_____(b)
a)less than -155° C or greater than 150° C b)less than -55° C or greater than 150°C
c)more than -55° C or greater than 150° C d)less than -55° C or greater than 250° C

155) 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

156) What is the indication for blown radiator fan fuse? (c)
a)LED b)Buzzer c)Fuse blown out Indicator will project out d)Message

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

158) 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

159) 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

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

161) 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

162) 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

163) 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) Tacho Generator failure
c)Exciter Generator failure d) Auxiliary Generator failure

164) If train stopped in mid section on account of Loco Failure Loco pilot should do _____immediately (b)
a)Inform TLC/PCOR b)Put on Flasher Light, Apply A-9,SA-9, wooden wedges and secure formation. c)Ask for relief Loco d)Attend the Locomotive

165) 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

166) Use of Dynamic Brake is_____ To raise the engine RPM (a)
a)To control the train and to maintain constant speed at PSR ,TSR and Loop lines
b)To nullify the conjunctional brakes c)To stop the train d) none

167) 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

168) 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

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

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

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

172) 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

173) If BA shows over charging due to defective battery, the following action is to be taken? (a)
a) BS to be open b) Shut down the engine
c) Engine to be brought to idle d) No action required

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

175) If BA shows over charging due to defective VRP, the following action is to be taken? (a)
a) AGFB off b) Shutdown the Engine c) Idle d) No action required

176) 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

177) If battery ammeter shows discharging, what may be the reason? (d)
a) AGFB Tripped b) VRP Fuse Blown out c) Cards Slack(BX ,BN) d) All

178) If battery ammeter shows discharging what should be checked on VRP? (b)
a) AGFB b) Fuse c) MB1 d) Battery Knife Switch

179) If Battery ammeter shows discharging and not rectified what is the action to be taken? (d)
a) Work for 4 Hours b) Do not Shut down c) Do not allow for Automatic Shut Down.
d)All of the above

180) What is the reason for battery ammeter showing ZERO? (a)
a) Battery Switch Open b) AGFB Tripped c) VRP Defective
d) AUX. GEN. Defective

181) 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

182) 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 Switch d) Start Switch

183) 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

184) 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

185) If engine is not cranking which power contactor interlocks are to be checked?(a)
a) P22, S1 b) P22, S21 c) P21, S1 d) P1, S1

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

187) If FPC Contactor closing but engine is not cranking what may be the reason?(c)
a) MB1 Tripped/Off b) MB2 Tripped/Off c) FPB Tripped/Off
d) MFPB1 & MFPB2 Tripped/Off

188) If engine is cranking but not firing what may be the reason? (d)
a) OPS1 Stuck up b) LWS Operated c) OSTA Tripped d) All the above

189) 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

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

191) 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

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

193) What is the reason if engine shutdown automatically on run? (d)
a) MB2 Tripped b) MFPB1 &MFPB2 Tripped c) FPB Tripped
d) All the above

194) Which breaker is to be checked if engine shutdown on run? (c)
a) MB1 b) MCB1 & MCB2 Tripped c) FPB Tripped d) Allthe above

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

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

197) What is the reason if engine shutdown without any indication on run in GE Governor? (a)
a) Tacho Generator failure b) LWS c) OPS d) LLOB

198) What happens if Amphenol plug is slack on GE governor loco? (b)
a) Not cranking b) Not Firing c) Not Holding d) No Problem

199) 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

200) What may be the reason for throttle is not responding? (d)
a) DMR De-energizedb) GR Tripping c) GFOLR Tripping d) All the above

201) What happens if MCB1 & MCB2 get tripped on run? (b)
a) Engine shutdown b) Engine comes to idle c) Load meter showszero d) No Problem

202) When does AFL System operate? (d)
a) Fireman emergency b) ACP c) Guard application d) Allthe above

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

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

205) 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

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

207) 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

208) If AFL Malfunctions Driver must observe (a)
a) BP For 5Kg/Cm b) MR For 9.5Kg/Cm c) Control air pressure for 5Kg/CM
d) FP For 6Kg/Cm

209) The Procedure for isolation of AFL, when AFL is malfunctioning (d)
a) If isolation switch available switch Off b) If not disconnect 171 wire c) Pack DMR
d) All the above

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

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

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

213) If Head light fails what is the action to be taken by the Drivers? (b)
a) Fail the loco b) Follow G&SR Rules
c) Work with classification lights d) Work normally

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

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

216) What is the effect of GR tripping? (d)
a) Load meter zero b) Engine comes to Idle c) GR Indication with bell
d) All the above

217) What is the effect of WSR? (d)
a) LM gradually drops to zero b) Sanders operate
c) Wheel slip indication with buzzer d) All the above

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

219) In AC/DC Locomotives no of cranking relays and no of cranking contactors?(a)
a) 2,3 b) 3,2 c) 2,2 d) 1,2

220) In AC/DC Locos during cranking which relay protects Auxiliary And Exciter Generators? (c)
a) SAR b) GR c) TDR d) WSR

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

222) What is the purpose of GFOLR in AC/DC Locomotive? (c)
a) To protect Main Generator field b) To protect Rectifier panel
c) To protect Main Generator field & rectifier panel d) To protect Auxiliary Generator

223) No of GR's in AC/DC locomotives (b)
a) 1 b) 2 c) 3 d) 4

224) which circuits are protected by GR1 & GR2 after ear thing? (c)
a) Power Circuit b) Control circuit c) Power and Control circuits
d) Nothing

225) what are the changes in single BKT Locomotives as compare to Double BKT Loco's? (d)
a) 3BKR Relays b) P22 & P32 Contactors location interchanged
c) During DB 5 Power contactors will energies d) All the above

226) what is the procedure to be taken before resetting GR & GFOLR? (d)
a) ECS & Throttle Idle b) Both GF Switches Off
c) Reverser Handle neutral d) All the above

227) How many times resetting of GR & GFOLR will be done? (a)
a) 3 b) 6 c) Work on lower notches d) Work up to destination

228) which Relay can reset both On automatic and manual? (c)
a) GR1 b) GR2 c) GFOLR d) All the above

229) If BKT or Reverser is not operating properly what is the action to be taken?(b)
a) Fail the loco b) Operate manually with `L' rod c) Shutdown engine
d) Engine Idle

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

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

231) Main Bearing elongation is _____ (d)
a) 0.010" b) 0.020" c) 0.030" d) 0.040"

232) Maximum Brake cylinder pressure with A9 (c)
a) 5 kg/cm² b) 3.5 kg/cm² c) 1.8 kg/cm² d) 5.2 kg/cm²

233) Horse power of WDG3A loco is _____ (c)
a)2600 b) 3600 c) 3100 d) 4000

234) Horse power of WDG4 loco is _____ (b)
a)2600 b) 4500 c) 3100 d) 4000

235) Horse power of WDM2 loco is _____ (a)
a) 2600 b) 4500 c) 3100 d) 4000

236) Control air pressure in Alco loco_____kg/cm² (c)
a)3.5 b) 4 c) 5 d) 6

237) In Alco locomotive Battery knife switch is located in_____ (a)

a) Nose Compartment b) Driven cabin

c) Compressor Compartment d) Radiator room

238) VCD penalty takes place after_____sec. (b)

a)86 b) 76 c) 96 d) 68

239) In Alco loco EPG is located in_____ (c)

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

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

a)Main Generator b) Auxiliary Generator c) Exciter Generator d) Auxiliary & Exciter Generator

241) In Alco Traction Motor gear case is having____no. of bolts (c)

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

242) Dust exhaust motors are available for _____ type of filters (b)

b) Car body b) Cyclonic c) Air maize d) None

243) The safety device provided in brake system is _____ (b)

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

244) Rectifier converts (a)

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

245) Inverter converts (b)

e)AC to DC b) DC to AC c) DC to DC d) AC to AC

246) Idle RPM of WDG3A locomotive is (b)

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

247) 8th RPM of WDG3A locomotive is (d)
a)400 b) 950 c) 1000 d) 1050

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

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

250) Reduction in BP pressure causes (c)

a)Brakes release b) Brakes slow release
c) Brakes application d) MR pressure increasing

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

252) In Alco loco EPG is located in_____ (c)
a) Driver cab b) Nose compartment
c) Compressor compartment d) Radiator room

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

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

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

256) 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

257) The safety device provided in brake system is _____ (b)

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

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

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

260) Electro Pneumatic Governor is located in (a)

a)Compressor room b) Radiator room c) Nose compartment d) none

261) LWS is connected to (b)

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

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

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

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

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

263) Power contactors fluttering is due to (c)

a) Less magnetism b) Load meter defective

c) Less control air pressure d) Week batteries

264) In Twin beam head lights_____volts halogen lamps are used (c)

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

265) In twin beam head light system in DC-DC converter if one unit is defective the stand byunit 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

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

a) Compressor compartment b) Excitation Panel

c) LP cab d) Existing location of Governor

267) 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

268) In Alco loco SP1 is provided for (b)
a)Over charging b) Quick charging c) resetting AFL
d) resetting VCD

269) ____safety device is provided to prevent traction motors from damages (c)

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

270) When GF contactor is packed loco can be worked in_____ (c)
b) by manual transition b) only in parallel
c) series parallel d) normal

271) During dynamic braking_____valve avoids loco brake to apply (c)
a) C2 relay valve b) Additional C2 relay valve c) BKIV d) SA9

272) 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

273) If electrolyte leaks from battery,_____will happen (a)
a) Starting ground b) battery discharging
c) Non-explosive power ground d) engine shut down

274) When train parting on run_____will operate to bring
engine speed to Idle (a)
a) PCS2 b) P1 c) P2 d) Both b & c

275) In short hood control stand_____duplicate breaker is provided (d)
a) MCB b) MFPB c) AGFB d) ERF

276) The safety device provided in brake system is (b)
a)LLOB b) PCS2 c) OSTA d) LWS

277) Dust exhaust motor is available for _____ (b)
a) Car body filters b) Cyclonic filters c) Air maize filters d) all of the above

278) On run if MCB1 or MCB2 trips_____trouble will be experienced (c)
a) Engine shut down b) Load meter not responding
c) Throttle not responding d) None of these

279) To protect power circuit from earth fault__relay is provided (b)
a) DMR b) GR c) ESR d) SAR

280) In WDG3A LWS located in_____ (b)

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

281) Malfunctioning of LWS leads engine to_____ (c)

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

282) Position of EPG switch on control stand in rear loco of MU is set _____

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

283) Control air pressure in loco (a)

a) 5 kg/cm² b) 6 kg/cm² c) 8 kg/cm² d) 10 kg/cm²

284) In AC-DC locomotives engine is cranked by (b)

a) Main Generator b) Auxiliary generator & Exciter generator

c) Auxiliary generator d) Exciter generator

285) _____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

286) _____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

287) 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

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

a) Engine comes to Idle b) BP drops

c) Brakes will apply d) all the above

289) For resetting VCD wait for_____seconds (b)

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

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

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

291) If water temperature raises to 90°C___will operate (a)

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

292) If LWS operates engine comes to (b)

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

293) EPG will maintain MR pressure between_____ (c)

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

294) If ETS is operated, engine RPM will __ (c)

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

295) If LWS is operated_____indication is displayed (c)

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

296) 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

297) 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

298) Horse Power of WDM3D is (b)

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

299) In WDM3A radiator fan rotates at____different speeds (a)

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

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

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

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

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

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

a) Compressor room b) Radiator room

c) Engine room d) Generator room

303) LLOB is provided in governor (a)

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

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

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

305) If ECC is short circuited breaker will trip (a)

a) FPB b) MFPB c) MCB d) MPCB

306) If there is no control air pressure_____will not pick up (d)

a) Power contactors b) Breaking contactors

c) Reverser contactors d) all of the above

307) In WDM3A fuel pump motor is located in (a)

a) Compressor room b) Engine room

c) Radiator room d) under truck

308) If MCBG power breaker is tripped on run engine will (a)

a) Shut down b) come to Idle c) none

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

a) Engine room b) Compressor room

c) Nose compartment d) Radiator room

310) BKBL gets current from (c)

a)Battery b) Auxiliary generator

c)Current developed by TM during DB d) Main generator

311) If battery ammeter is showing over charging, the reason is (c)

a) BS open b) MB1 tripped c) Battery defective d) AGFB tripped

312) If BA shows over charging due to defective battery (a)

a)BS to be open b) shut down the engine

c)Engine to brought to Idle d) No action required

313) For cranking the engine what should be MUSD & ECS position (b)

a) RUN,RUN b) RUN, IDLE c) STOP, RUN d) STOP, IDLE

314) If battery ammeter shows discharging and not rectified, what is the action to be taken? (d)

a) Work for 4 hours b) Do not shut down

c) Do not allow for automatic shut down c) All of the above

315) If engine is not cranking___switch is to checked in nose compartment (a)

a)Battery knife b) Engine control c) MUSD d) Start

316) If engine is not cranking_____contactor to be checked (d)

a) FPC b) CK1 c) CK2 d) all the above

317) If FPC contactor closing but engine is not cranking_____may be the reason (c)

a)MB1 tripped/Off b) MB2 tripped/Off

c)FPB tripped/Off d) MFPB1 & MFPB2 tripped/Off

318) What is the reason if engine shut down automatically on run (d)

a) MB2 tripped b) MFPB1 & MFPB2 tripped

c) FPB tripped d) all the above

319) What happens if MCB1 & MCB2 tripped on run (b)

a) Engine shut down b) engine comes to Idle

c)Load meter shows zero d) No problem

320) When does AFL operate? (d)

a) Fireman Emergency b) ACP c) Guard application d) all the above

321) What is the effect of AFL operation (d)

a) Engine comes to Idle b) AFL indication c) Buzzer d) all the above

322) 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

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

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

324) Type of traction motors in HHP locomotive (a)

a)AC motors b) DC motors c) both A & B d) None

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

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

326) Which type of Traction Motors fitted in HHP locomotive (a)

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

327) Which type of Main Generator fitted in HHP locomotive (b)

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

328) Function of Traction Inverters in HHP locomotive (a)

c) To control 3-Phase AC Motors b) To control 3 phase Alternator

d) Both A & B d) None

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

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

330) No. of Traction Inverters in HHP loco (In EMD/Siemens Traction system) (b)

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

331) Current rating of Head Light circuit breaker in HHP locomotive (d)

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

332) Number of DC link switch gears in HHP loco (a)

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

333) In HHP loco, During DB TCC converts (b)

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

334) In HHP loco, ECC-2 is located in (b)

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

335) In HHP loco, Power contactors are replaced with (d)

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

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

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

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

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

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

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

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

339) Model of Main Generator assembly in WDG4 loco (a)

a) TA17-CA6B b) 5A-8147 c) Both A & B d) None

340) Model of Aux Generator assembly in WDG4 loco (b)

a) TA17-CA6B b) 5A-8147 c) Both A & B d) None

341) Model of Traction Motor in WDG4 loco (c)

a) TA17-CA6B b) 5A-8147 c) TB26221 d) None

342) Speed of Traction Motor in WDG4 loco in RPM (a)

a) 3220 b) 2000 c) 954 d) 1000

343) In WDG4 loco Traction Motor is …… (a)

a) Force air ventilated cooled b) oil cooled

c) Water cooled d) None

344) Total no. of Batteries in WDG4 loco (c)

a) 01 b) 02 c) 08 d) None

345) Total no. of Cells of batteries in WDG4 loco (a)

a) 32 b) 50 c) 64 d) None

346) Total no. of Cells of batteries in WDP4 loco (b)

a) 32 b) 50 c) 64 d) None

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

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

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

a) ECP b) Engine room

c) Control stand d) None

349) No. of Grid blower motors in WDG4 loco (b)

a. 04 b) 02 c) 03 d) None

350) In WDG4 loco Brake warning indication indicates (b)

a. Excessive Main Alternator current b) Excessive current in DB

c) Excessive Air Braking d) None

351) In WDG4 loco Battery charger rectifies AC to DC of (a)

a. Aux Generator output b) Companion Alternator output

c) Main Alternator output d) none

352) In WDG4 loco, if on run GR trips then the engine … (b)

a. Will shut down b) comes to Idle

c) No effect on engine d) No effect on loco

353) In WDG4 loco the companion Alternator runs at the same speed as (a)

a. Engine RPM b) Aux Gen RPM c) Turbo RPM d) Loco RPM

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

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

(b)

355) In WDG4 loco HP input to Traction motors is

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

356) In WDG4 loco power contactors are replaced with (d)

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

357) In WDG4 (ECS) isolation switch is having_____ (b)

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

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

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

359) For quick charging of BP in WDG4 loco,__is used. (d)

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

360) In HHP loco MVCC is located in

a) Nose compartment b) Compressor room (b)

c) Radiator room d) Under Truck

361) Main components of CCB 1.5 brake system are (d)

a) BVC b) VCU & CRU c) PCU & KE valve d) all of the above

362) Total no. of keys in EM2000 display panel are (d)

a) 8 b) 10 c) 12 d) 16

363) No. of grid blower motors in WDG4 loco (b)

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

364) When computer controlled breaker is recycled the disabled speed sensor (d)

a) 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

365) Break warning indication (b)

a) Excessive main alternator current

b) Excessive breaking current in DB

c) Excessive air braking

d) None

366) Battery charger rectifies AC to DC of (a)

a) Aux. generator output b) companion alternator output

c) Main alternator output d) None

367) On run GR trips, then the engine (b)

a) Will shut down b) comes to Idle c) no effect on engine d) no effect on loco

368) Each traction motor is provided with (b)

a) One speed sensor b) one speed sensor & one temperature sensor

c) One temperature sensor d) Two speed sensors

369) When there is communication link failure and micro air breaker (b)
is active, the loco will work

a) as lead in b) only in trail mode c) in both modes d) in Helper mode

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

a) Both throttle handle in Idle b) any one throttle handle in idle

c) Leading c/s throttle handle in idle

d) Leading throttle handle in idle & reverser in Neutral

371) The companion alternator runs at the same speed as Engine rpm (a)

a) Engine rpm b) Aux gen rpm c) Turbo rpm d) loco rpm

372) MR pressure dropping on run due to (d)

a) Air dryer defective b) Auto drain vale malfunctioning
c) BC pipe damaged d) all the above

373) LCC, ECP, Event recorder are located in (c)
a) ECC3 b) ECC2 c) ECC1 d) None

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

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

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

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

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

379) In HHP loco braking contactors are located in (c)
a) ECC3 b) ECC2 c) ECC1 d) None

380) In HHP loco IPR (Inverter Protection Resistor) is located in (c)
a) Compressor compartment b) Radiator compartment
c) Clean air compartment d) Equipment rack

381) In HHP loco, dust bin blower motor is located in (c)
a) Compressor compartment b) Radiator compartment
c) Clean air compartment d) Equipment rack

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

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

384) 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

385) If BA shows over charging due to defective battery,
the following action is to be taken? (a)
a) BS to be open b) Shut down the engine
c) Engine to be brought to idle d) No action required

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

387) If BA shows over charging due to defective VRP,
the following action is to be taken? (a)
a)AGFB off b) Shutdown the Engine c) Idle d) No action required

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

389) If battery ammeter shows discharging, what may be the reason? (d)
a) AGFB Tripped b) VRP Fuse Blow out c) Cards Slack(BX,BN) d) All the above

390) If battery ammeter shows discharging what should be checked on VRP? (b)
a) AGFB b) Fuse c) MB1 d) Battery Knife Switch

391) If BA ammeter shows discharging and not rectified what is the action to be taken?(d)
a)Work for 4 Hours b) Do not Shut down
c)Do not allow for Automatic Shut Down d) All of the above

392) What is the reason for battery ammeter showing ZERO? (a)
a) Battery Switch Open b) AGFB Tripped c) VRP Defective d) Aux. Gen. defective

393) 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 the above

394) In Alco loco 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 Switch d) Start Switch

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

396) 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

397) If engine is not cranking which power contactor interlocks are to be checked? (a)
a)P22, S1 b) P22, S21 c) P21, S1 d) P1, S1

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

399) If FPC Contactor closing but engine is not cranking what may be the reason? (c)
a) MB1 Tripped/Off b) MB2 Tripped/Off
c) FPB Tripped/Off d) MFPB1 & MFPB2Tripped/Off

400) If engine is cranking but not firing what may be the reason? (d)
a) OPS1 Stuck up b) LWS Operated c) OSTA Tripped d) All the above

401) 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

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

403) 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

405). 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

406). What is the reason if engine shutdown automatically on run? (d)
a) MB2 Tripped b) MFPB1 &MFPB2Tripped c) FPB Tripped d) All the above

407) Which breaker is to be checked if engine shutdown on run? (c)
a) MB1 Tripped b) MCB1 & MCB2Tripped c) FPB Tripped d) All the above

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

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

410) 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

411) What may be the reason for throttle is not responding? (d)

a) DMR De-energized b) GR Tripping c) GFOLR Tripping d) All the above

412) What happens if MCB1 & MCB2 get tripped on run? (b)
a)Engine shutdown b) Engine comes to idle c) Load meter shows zero d) No Problem

413) When does AFL System operate? (d)
a) Fire man emergency b) ACP c) Guard application d) All the above

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

415) 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

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

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

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

419) If AFL Malfunctions Driver must observe (a)
a)BP For 5Kg/Cm² b) MR For 9.5Kg/Cm²
c) Control air pressure for5Kg/Cm² d) FP For 6Kg/Cm²

420) 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

421) How do you adjust control air pressure? (c)
a) A9 Feed valve b) SA9 Feed valve c) N1 Reducing valve d) HS4 Valve

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

423) If Head light fails what is the action to be taken by the Drivers? (b)
a) Fail the loco b) Follow G&SR Rules
c) Work with classification lights d) Work normally

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

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

426) What is the effect of GR tripping? (d)
a) Load meter zero b) Engine comes to idle c) GR Indication with bell d) All the above

427) What is the effect of WSR? (d)
a) LM gradually drops to zero b) Sanders operate
c) Wheel slip indication with buzzer d) All the above

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

429) In AC/DC Locomotives no of cranking relays and no of cranking contactors?(a)
a) 2, 3 b) 3, 2 c) 2, 2 d) 1, 2

430) In AC/DC Locos during cranking which relay protects Aux and Exc. Gens? (c)
a) SAR b) GR c) TDR d) WSR

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

432) What is the purpose of GFOLR in AC/DC Locomotive? (c)
a. To protect Main Generator field b) To protect Rectifier panel
c) To protect Main Generator field & rectifier panel d) To protect Auxiliary Generator

433) No of GR's in AC/DC locomotives (b)
a) 1 b) 2 c) 3 d) 4

434) Which circuits are protected by GR1 & GR2 after earthling? (c)
a) Power Circuit b) Control circuit c) Power and Control circuits d) Nothing

435) What are the changes in single BKT Locomotives as compare to Double BKT Loco's?(d)
a) 3BKR Relays b) P22 & P32 Contactors location interchanged
c) During DB 5Power contactors will energize d) All the above

436) What is the procedure for resetting GR & GFOLR? (d)

a. ECS & Throttle Idle b) Both GF Switches Off

c) Reverser Handle Neutral d) All the above

437) How many times resetting of GR & GFOLR can be done? (a)

a)3 b) 6 c) Work on lower notches d) Work up to destination

438) If BKT or Reverser is not operating properly what is the action to be taken? (b)

a)Fail the loco b) Operate manually with `L' rod c)Shutdown engine d) Engine Idle

439) Revised VCD cyclic timings are_____(a)

a. 60, 8 and 8 seconds b) 60,17 and 17seconds

c) 170, 17 and 17seconds d) 65,8 and 8seconds

439) 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

440) In WW governor loco if PCS is knocked out (d)

a) ERR will de energize b) ESR will de energize

c) DMR will de energize d) Both a & c

441. In AC - DC loco if MB2 trips on run (c)

a. Batteries will get over charge b) Batteries will get discharge

c) Engine will shutdown d) BCA will show 0

442. Hot engine alarm will be experienced after (d)

a) TS1 picks up b) LLOB operates

c) TS2 picks up d) ETS picks up

443. Eddy current clutch is located in (d)

a) Nose compartment b) Control compartment

c) Compressor room d) Radiator room

444. ERF should be put ON when (d)

a) ECC is defective b) R1 & R2 defective

c) TS-1&TS-2Defective. d) Both b and c

445. If radiator fan is not working during continuous hot engine alarm switch ON (a)

a) ERF b) LWS c) DMR d) TR A

446. S21 contactor is connected between (a)
a) TM Nos. 3&6 b)1&4 c) 2&5 d) 3&5

447. In WW Governor loco if tacho generator is defective (b)
a) throttle will not respond b) Load meter will not respond
c) Both a and b d) Engine will shutdown

448. During M.U. operation if trailing loco GR-1 trips on run, the indication in leading loco (c)
a) GR-1 knob projects out b) Bell will ring along with white bulb glowing
c) Load meter will over shoot with alarm bell ringing d) Engine will shutdown

449. Continuous working in restricted zone will cause (b)
a) continuous wheel slip b) power ground
c) Hot engine alarm d) Engine shutdown

450. 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

451. In Medha Microprocessor ver-III loco Low hauling power will be experienced when (c)
a) TE limit switch is enabled. b) Rectifier fuse blown out
c) Both a & b. d) Power setter switch enabled

452. In Medha microprocessor loco when one TM is isolated, loco will (a)
a) start with Series parallel combination b) start with Parallel combination
c) start with Parallel with shunt combination d) Loco will not move

453. In Medha ver-3 loco, traction motors are isolated through (a)
a) DID panel b) MCOS c) Toggle switch d) By packing reverser bits

454. In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with(b)
a) Series parallel combination b) Parallel combination
b) series parallel with shunt combination d) Parallel with shunt combination

455. In GE Microprocessor Loco load meter will not respond if (c)
a) GFB trips b) ECB trips. C) Both a & b d) CEB trips.

456. In GE microprocessor loco during cranking ECS should be kept in (c)
a) Isolate b) Run c) Start d) Idle

457. In Medha microprocessor loco when TM no.5 is isolated (c)
a) S1 will not pick up b) S21 will not pickup
c) S31 will not pickup d) P32 will not pickup

458. In GE microprocessor loco if GFB trips on run (b)
a) Throttle will not respond b) Load meter will not respond
b) Both a and b d) Engine will shutdown.

459. If MPCB breaker trips DID will become blank in (c)
a) GE micro processor loco b) Siemens micro processor loco
c) Medha micro processor loco d) GM loco

460. In GE microprocessor locos to build up FOP (a)
a) EST should be moved to prime position b) ECS should be moved to prime position
c) Both a and b d) EST should be moved to start position

461. In GE microprocessor loco during false locked axle indication (d)
a) Switch On LACS switch b) Switch On SCO switch.
c) Isolate defective TM. d) Both a & b.

462. In GE microprocessor loco throttle will not respond if (a)
a) ERS breaker trips b) GFB trips c) MCB trips d) MFPB-1 trips

463. In GE microprocessor loco during level - 1 fault is experienced (d)
a) Bring throttle to idle. b) Toggle DAS switch.
c) Press reset key d) Both a & c

464. In GE microprocessor loco when automatic fault is experienced (a)
a) Bring throttle to idle b) Toggle DAS switch.
c) Press Reset key d) Both b & c.

465. In Medha Microprocessor loco if TM2 & 5 are isolated loco will start with (a)
a) Series-parallel combination b) Parallel combination
c) Parallel with shunt combination d) Series-parallel with shunt combination

466. 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.

467. 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

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

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

470. Throttle will not respond if (d)
a) MB2 trips b) MB1 trips c) AGFB trips d) MCB trips

471. 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

472. Dynamic brakes should not be used when (d)
a) FPC is packed b) Working with manual transition
c) GF emergency switch is put 'ON' d) GFC is packed

473. In single BKT/Rev Loco during DB which power contactors will not pick up?(d)
a) P2 & P22 b) S21 &S31 c) S1, S21 & S31 d) Both a and b

474. DB should not be used when (d)
a) BKBL failed b) Load meter failed
c) GF emergency switch is 'ON' d) Both a and b

475. In Alco loco Dynamic brake will not work if (b)
a) GF emergency switch is put ON b) TM is isolated
c) Working with manual transition d) LWS emergency switch is put ON

476. In GE governor loco during cranking if MUSD is in stop position engine will (d)
a) Crank b) Not fire c) Not hold d) Not crank

477. In WW governor loco not provided with MUSDR relay during cranking if (b)
MUSD is in STOP position during cranking engine will
a) Crank b) Not fire c) Not hold d) Not crank

478. In AC/DC loco during cranking, engine will not crank if (c)
a) GR trips b) GR1 trips c) GR2 trips d) GFOLR trips

479. In AC/DC loco if CK1 and CK2 are welded (c)
a) Battery ammeter will show discharge b) Load meter will not respond
c) Both a & b d) Battery ammeter will show over charge

480. In AC /DC loco engine will not crank if (b)
a) TDR is energized b) CKR1 is not energized
c) CKR2 is not energized d) Both b and c

481. ERF should be switched ON when (c)
a) R1 and R2contactors not picking up b) ECC coil is open circuit
c) Both a and d d) TS1 & TS2defective

482. In AC/DC loco if cranking contactors gets welded (a)
a) Batteries will get discharge b) Batteries will get overcharge
c) Engine will get shut down d) Batteries will neither charge nor discharge

483. In AC/DC loco if TDR is in energized condition (b)
a) Throttle will not respond b) Batteries will discharge
c) Both a and b d) Engine will get shut down

484. In AC/DC loco if CK3 gets welded (d)
a) Load meter will not respond b) Batteries will get discharged
c) TH will not respond d) Both a and b

485. In AC/DC loco load meter will not respond (c)
a) if CK1 & CK2 welded b) CK3 welded
c) Both a and b d) GFC is welded

486. In WDM2 locomotives, during cranking, if Normally Closed Interlock of SAR is not getting closed , the result will be _____ (c)
a. Throttle will not respond b) Load meter will not respond
b. Engine will crank and fire but not hold d) Engine will not fire

487. Fuel pump motor is not working though the all circuit breakers are switched ON, the immediate reason could be_____ (d)
a. ERF not closed b) R1 and R2 not picked up
b. GFC not picked up d) FPC not picked up

488. 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

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

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

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

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

491. MR (compressed air pressure) Unloading will takes place at_____kg /cm² (c)
a) 8 b) 9 c) 10 d) 11

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

493. Hot engine alarm (HEA) will come at__°C in WDG3A (c)
a) 60 b) 70 c) 90 d) 80

494. 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

495. Hot engine alarm (HEA) will come at__°C in WDG3A(c)
a) 60 b) 70 c) 90 d) 80

496. 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

497. ____will be switched automatically in loco, during accidents (b)
b. Head light b) Auto flasher light c) Marker light d) Doom light

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

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

489. 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

500. 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

501. What combination of trains are Permitted for running long haul train ? (d)
a. Empty/Empty b) loaded/Empty
c) Loaded/Loaded d) All the above

490. 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

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

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

493. 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

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

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

496. In WDP4/WDG4 if GR (power) trips continuously 3 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

497. 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

498. 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

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

500. 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

501. 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

502. 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

503. 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

504. 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

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

506. 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

507. 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

508. 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

509. 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

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

511. Traction Motor gear ratio for MAC is (c)
a) 17:77 b) 18:90 c) 17:90 d) 16:90

512. _____is the main power supply of CCB for the CCB system. (b)
a) DCU b)VCU c) PCU d) DVR

513. MRPT-main reservoir pressure transducer reads pressure_____ (b)
a) Between MR1&MR2 b) MR1 pressure c) MR2 pressure d) FP pressure

514. The air brake system, trips locomotive control system whenever _____relay initiates a safety control or emergency air brake application. (a)
a) PCR b) DMR c) WSR d)SR

515. The EM2000 reads main reservoir air pressure from_transducer. (d)
b) BPT b)BCT c) ERT d) MRPT

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

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

518. 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

519. 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

520. Maximum rectified output voltage of Companion Alternator is_____volts (b)

a) 250 b) 230 c) 200 d) 110

521. Maximum rectified output voltage of Traction Alternator is_volts (d)

a) 2400 b) 2500 c) 2700 d) 2600

522. Minimum continuous speed at Maximum tractive effort of WDP4 Locomotive(d)is kmph

a) 15.5 b) 20 c) 10.0 d) 22.5

523. HP of WDP4 Loco motive is_____HP (a)

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

524. Normal idle RPM of WDP4 Engine is _____ (b)

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

525. WDP4 OSTA tripping rpm is: (c)

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

526. ___circuit breaker establishes local control with power from Locomotive batteryor Auxiliary generator to operate heavy duty switch gear, magnet valves, contactor, blower and miscellaneous relays. (d)

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

527. Current rating of Starting fuse_____ (d)

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

528. How many position does PRIME/START switch has_____ (a)

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

529. . Maximum starting effort of WDG4 is_____ (b)

a) 120T b) 54T c) 22T d) 44T

530. 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

531. Shutting down of all diesel engines in a consist is accomplished____relay (c)
a) DMR b) GCR c) SDR d) FLR

532. TCC1 COMPUTER breaker provides power and protection to (b)
a) GTO1 b) The No.1 bogie traction inverter (TCC1) computer and associated circuits
c) TM1 d) DCL

533. The functioning of VCU is _____ (b)
a) to reduces 73.5 V DC to filtered 25 V DC to CRU
b) to reduces 73.5 V DC to filtered 24 VDC to CRU
c) to reduces 72 V DC to filtered 25 V DC to CRU
d) to reduces 110 VDC to filtered25 V DC to CRU

534. The main functions of EM2000 computer is (d)
a) Logic b) Excitation c) Display d) All of the above

535. The purpose of DVR(Digital Voltage Regulator) is (d)
a) To regulates Companion alternator output
b)To regulates Main Generator
c)To Regulates auxiliary generator output by controlling auxiliary generator field current
d) None of the above

536. The purpose of Ground relay is to protect when _____ (b)
a) A failed group of rectifying diodes
b) Development of a Main Gen positive or negative high voltage path to ground
c) a & b d)TM Low current

537. Tractive effort is transferred from TM to wheel is through _____ (d)
a) Load pads b) Side bearers c) coil springs d) Traction rods

538. Whenever DC link exceeds 3600volts,the_____trips, which fires a Hard Crowbar. (b)
a) AC control b) TCC Break Over Diode (BOD)
c) Local control breaker d) GR

539. Whenever DC link voltage exceeds 3200 volts ,the TCC fires a____crow bar(c)
a) Hard Crowbar b) Sneaky crow bar c) Soft Crowbar d) GR

540. How many Power Contactors are available in WDG4 Locomotive? (d)
a) 7 b) 9 c) 8 d) 0

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

542. What is the maximum permissible speed of (designed for) WDG4 locomotives(b)
a) 150kmph b) 120kmph c)100kmph d)75kmph

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

544. 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

545. 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

546. Turbo lube pump should be running for_____minutes after engine is shutdown if engine was running at 5th notch and higher for 60minutes prior to engine shut down. (b)
a) 15 b) 35 c) 20 d) 45

547. _____Number of brake blocks are provided on WDG4 (b)
a) 16 b) 12 d) 32 d) 22

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

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

550. If the coolant temperature reaches_____degree C, the locomotive will go to throttle six limit. (a)
a) 95 b) 92 c) 85 d) 100

551. EPD is Located at _____ (a)
a) Engine Accessories Room b) Engine room
c) Radiator Room d) Equipment rake

552. 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

553. 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

554. What is the indication for blown radiator fan fuse ? (c)
a) LED b) Buzzer c) Fuse blown out Indicator will project out
d) Message

555. 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.

556. 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

557. AGFB Stands for (b)

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

558. BL KEY Stands for (c)
a) Button Lever Key b) Big Lever Key
c) Box Lever Key d) none

559. CRU Stands for (d)
a) Control Relay Unit b) Centre Relay Unit
c) Constant Relay Unit d) Computer Relay Unit

560. DCL Stands for (b)
a) Direct Circuit Link b) Direct Current Link
c) Digital Current Link d) Digital Circuit Link

561. DIO Stands for (a)
b) Digital Input Output b)Digital Internal Output
c) Direct Input Output d)Digital Interlock Output

562. 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

563. EPU Stands for (b)
a) Engine Performance Unit b) Engine Pick Up
c) Engine Pressure Unit d) Electrical Pick Up

564. FP RLY Stands for (d)

b) Fuel Pressure Relay b) Failure Protection Relay

c) Full Pressure Relay d) Fuel Pump Relay

565. GTO Stands for (a)

c)Gate Turn Off Thyrister b) Gate Thyrister off

c) Gate Turn On d)Gate Thyrister On

566. IPR Stands for (d)

d) Inverter Protection Relay b) Insulator Protective Resistor

c) Inverter Protective Rod d) Inverter Protective Resistor

567. MMC Stands for (c)

e) Miss Management Case b) Miscellaneous Management Control

c) Miss Management By Crew d) Miscellaneous Management By Crew

568. WDG4 loco is a (a)

a) Single cab loco b) Dual cab loco

c) Dual cab loco with disc brake d) None

569. Maximum speed of WDG4D loco is_____KMPH(b)

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

570. To operate sander, air supply is received from (a)

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

571. 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

572. 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

573. Length of WDG4D locomotive is__meters (a)

a) 22.98 b) 21.54 c) 21.7 d) 19.5

574. To operate MVCC, air supply is received from (a)

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

575. In HHP loco mainly which governor is fitted (a)

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

576. HHP locomotive has a (a)

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

577. During EPD testing at Idle engine normally shutdown in sec (c)

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

578. EPU fitted on (b)

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

579. No. of starter motors fitted in WDP4D loco is (a)

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

580.Starter motors in HHP loco are (b)

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

581. No. of teeth in starter motor pinion is (c)

a. 10 b) 15 c) 11 d) None

582. During engine starting do not hold the fuel prime/engine start switch (FP/ES) to ES position for more than_____sec. (a)

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

583. Backlash to be maintained between ring gear and starter motor pinion (c)

a) 0.008”-0.016” b) 0.007”-0.025” c) 0.015”-0.040” d) 0.020”-0.030”

584. Compressor of HHP loco is (a)

a. Mechanical driven b) Electrical motor driven c) Belt driven d) None

585. Starting abutment means (a)

a. Starting motor pinion not coming out
b. Starting motor pinion not disengaging with ring gear
c. Starting motor pinion not rotating
d. All of the above

586. Starting abutment message will come on display if (a)

a. STA contactor not pick up within 0.3 sec after starting is initiated
b. STA contactor not pick up within 0.5 sec after starting is initiated
c. STA contactor not pick up within 3 sec after starting is initiated
d. None of the above

587. Which logic is implemented for starter motor drop out (d)

a. After releasing of ES switch from engine start position
b. After reaching engine speed 200 rpm
c. If engine start switch kept more than 20 sec in start position
d. All of the above

588. Starter motor will not drop (b)

a. If engine start switch kept more than 20 sec in start position
b. If STA & ST contactors tip welded
c. Until engine not crank
d. All of the above

589. Full form of STA is (b)

a. Starting contactor b) Starting Auxiliary Contactor
c) Starting Relay d) None

590. Full form of ST is (a)

a) Starting contactor b) Starting Auxiliary Contactor
d) Starting Relay d) None

591. During starting which contactor picks up first (b)

a. ST b) STA c) depends on last sequence of pickup d) None

592. Full form of SM 1&2 (c)
a. Starting motor contactor 1&2 b) Starting Module 1&2
c) Starting Motor 1&2 d) None of the above

593. Each starting motor solenoid assembly has (d)
a. a pickup coil (PU) b) a hold-in coil (HOLD)
c) a set of contacts (SM) d) all of the above

594. 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

595. Up to notch HHP loco can be raised without load (b)
a. 4^{th} b) 5^{th} c) 6^{th} d) 7^{th}

596. 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

597. 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

598. EEC-4 is found in (d)
a. WDP4 b) WDG4 c) WDP4B d) WDG4D

599. 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

600. 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

601. Companion alternator nominal output voltage is (a)
a. 230V AC b) 315V AC c) 415V AC d) None

602. Number of Lube oil pumps in HHP loco (d)
a) 1 b) 2 c) 3 d) 4

603. Full form of BL key is (a)
a. Button Lever key b) Block Lever key
c) Bench Lock key d) None of the above

604. In HHP loco Tractive Effort limit value is (c)
a. 200 KN b) 250 KN c) 294 KN d) None

605. Blades of Dynamic brake grids fans are made of (b)
a. Iron b) Aluminium c) Steel d) None

606. Normal LR dropping permitted up to (b)
a) 0.75 b) 0.85 c) 0.95 d) None

607. Pick up time between one radiator fan to another (b)
a. 10 sec b) 20 sec c0 30 sec d) 40 sec

608. Discharge capacity of FPM in HHP locomotive (b)
a. 5 GPM b) 7 GPM c) 10 GPM d) 12 GPM

609. Minimum engine cranking speed for starting (a)
a) 45 – 50 rpm b) 60 – 75 rpmc) 75 – 90 rpm d) 100 – 120 rpm

610. Maximum speed of WDP4 locomotive is_____kmph (d)
a) 100 b) 105 c) 120 d) 160

611. Low Idle RPM of WDP4D locomotive is (a)
a) 200 b) 269 c) 350 d) 400

612. T4 – Vigilance cycle is called (c)
a) Vigilance cycle b) Warning cycle
c) Penalty brake reset cycle d) all of the above

613. Duration of T0 cycle is (a)
a) 60 sec b) 8±2 sec c) 34±2 sec d) None

614. Duration of T1 cycle is (b)
a) 60 sec b) 8±2 sec c) 34±2 sec d) None

615. Duration of T3 cycle is (b)
a) 60 sec b) 8±2 sec c) 34±2 sec d) None

616. FPM of HHP locomotive is (c)
a) AC motor b) DC series motor c) 3Ø AC motor d) None

617. 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

618. 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

619. 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

620. POH of HHP locomotive is done after (d)
a) 8 years b) 12 years c) 15 years d) 18 years

621. In HHP loco following model Woodward governor is fitted (b)
a) PGR b) PGEV c) PGR & PGEV d) None of the above

622. Before re-cranking engine, wait for minimum____minutes
To cool starter motors (c)
a) 1 b) 2 c) 3 d) 4

623. Hard starting may be experienced due to (d)
a. Week battery b) Defective Starter motor
c) Less compression pressure c) Any of the above

624. Maximum speed of traction motor blower of HHP locomotive is controlled by (a)
a. OSTA b) EPD c) LCC d) HOD

625. 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

626. 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

627. Maximum tractive effort of WDG4 locomotive is_____tons (c)

a) 42 b) 23 c) 53 d) 39

628. 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

629. No. of Traction Inverters in Medha make traction system in HHP loco (c)

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

630. Full form of EPD is (c)

a) Engine Position Device b) Engine Parting Device

c) Engine Protection Device d) Engine Patrolling Device

631. In HHP loco Medha control system during dynamic braking, engine raise to_____ notch rpm. (a)

b) 2^{nd} b) 4^{th} c) 6^{th} d) None of the above

632. Series of WDP4D is (c)

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

633. 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

634. Do not switch off___circuit breaker immediately after Engine shut down (a)

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

635. 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

636. Don't try to raise the engine before engine coolant temperature has been reached (b)

a) 42° b) 52 c) 62° d) 72°

637. Purging cycle of air dryer is (c)

b) 15 ÷ 1 sec b) 30 ÷ 1 sec c) 60 ÷ 1 sec d) None

638. ECC4 located in (b)
c) Cab 1 b) Cab 2 c) Under truck d) None

639. Gear ratio in WDG4D locomotive is (b)
a) 17:77 b) 17:90 c) 18:65 d) 18:74

640. _____is provided in HHP loco in place of CCEM (d)
a) TLPM b) Scavenging pump c) Exhauster d) Ejector assembly

641. Maximum speed of WDP4d loco is_kmph (c)
a) 100 b 120 c) 135 d) 160

642. In HHP loco auxiliary generator rotate at (b)
b) 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

643. Maximum starting tractive effort of WDG4D locomotive is (b)
a) 400 KN b) 540 KN c) 900 KN d) None of the above

644. 4^{th} notch engine rpm WDP4D locomotive is (c)
a) 269 b) 486 c) 572 d) 675

645. No. of EFCO switches fitted in WDP4D loco (c)
a) 2 b) 3 c) 4 d) None of the above

646. 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

647. 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

648. type of transmission in WDG4D (c)
a)DC – DC b) AC – DC c) AC – AC d) None of the above

649. 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) 8^{th} 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

650. cooling time is related to (b)
b) Lube oil cooler b) Radiator c) Turbo super charger d) Compressor

651. 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

652. 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

653. New wheel diameter of WDG4D locomotive is (c)
a)1092 b) 1095 mm c) 1097 d) None of the above

654. Wooden wedge is a (a)
a) safety item b) safety device c) safety fitting d) None

655. Specific gravity of electrolyte of battery is measured by (a)
a) Hydrometer b) Barometer c) Hygrometer d) Voltmeter

656. 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

657. 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

658. 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

659. 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

660. 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

661. 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

662. Peak firing pressure of locomotive is (c)
a) 350 psi b) 1150 psi c) 1750 psi d0 3500 psi

663. 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

664. Coil resistance of Woodward governor solenoid should be (c)
a) 500 Ω ± 10% at 20°C b) 600 Ω ± 10% at 20°C
b) 700 Ω ± 10% at 20°C d) Non eof the above

665. 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

666. 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

667. 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

668. No. of ETPs fitted inn HHP locomotive (b)
a) 1 b) 2 c) 3 d) 4

669. In HHP locomotive Low lube oil shutdown is also initiated by (d)
a) HOD (Hot Oil Detector)
b) EPD low cooling water portion
c) EPD crankcase pressure portion
d)
e) All of the above

670. In 710 G3B engine maximum permissible temperature difference between lube oil and water is (b)

a) 10°C b) 11.1°C c) 16°C d) None of the above

671. Standard range of PH value of corrosion inhibitor in HHP loco coolant is in between (b)

a) 5.5 to 7.5 b) 7.5 to 10.5 c) 9.5 to 10.5 d) 10.5 to 11.5

672. Clearance between flywheel ring gear teeth and EPU must be a gap of (b)

a) 0.020"± 0.005" b) 0.025" ± 0.005" c) 0.030" ± 0.005" d) 0.035" ± 0.005"

673. Series of WDG4 is (b)

a) 20 b) 12 & 70 c) 40 d) 70

674. What is the full of form of TELM? (a)

a) Tractive Effort Limiting Switch b) Tracrtive Effort Limiting motor
c) Tractive Effort Liming mechanism d) None of the above

675. No. of teeth in Accessory Drive Gear is (b)

a) 79 b) 113 c) 131 d) 69

676. 1019. Starter motor to be remove during changing of power assembly no (c)

a) 1 & 8 b) 8 & 9 c) 8 & 16 d) None of the above

677. How many TM blowers are fitted in HHP Locomotive (a)

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

678. Don't shift the ISOLATION Switch to run position immediately after engine start, otherwise Engine will shut down due to (a)

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

679. Gear ratio (pinion Gear: Bull Gear) of WDP4D Locomotive is (b)

a) 18:65 b)17:77 c)17:90 d)) None of the above

680. Gap between TM blower intake ring and blower wheel on both sides of wheel assembly i.e.MA/TM is (b)

a) 2.5 to 5 mm b) 3.5 to 5mm c) 4.5 to 5mm d) none of the above

681. Driver's backup valve handle is located (b)

a)Both control console / desk
b)Behind LP seat
c) Behind ALP seat d) None of the above

682. What is the full from of RAPB? (a)

a) Restricted Air Penalty Brake Switch b) Rapid Air Penalty brake
c) Restored Air Penalty brake d) None of the above

683. What is the full from of AEB? (b)

a) Automatic Engine Breakdown b) Automatic Emergency Bypass Brake
c) Automatic Energy Bypass switch d) None of the above

684. What is the full from of LLOB? (a)

a) Low Lube Oil Button of Governor b) Less lube Oil Button
c) Low Lube Oil blast d) None of the above

685. During pre-lubrication lube oil is filtered through (b)

a)Only TSC Spin on filter b)Only TSC Spin soak back filter
c)Both TSC soak back & TSC Spin on filter d) None of the above

686. In HHP MU (d)

a) Loading of compressor of both loco is occurred at same pressure
b) Unloading of compressor of both loco is occurred at same pressure
c) Loading & unloading of compressor of both loco is occurred at same pressure
d) Loading & unloading of compressor of both loco is occurred at different pressure

687. What is the full from of ECP? (a)

a) Engine Control Panel b) Emergency Control Panel
c) Electrical Control Panel d) None of the above

688. Which of the following NDT process is used for auxiliary generator drive shaft testing (a)

a) ZYGLO testing b) MPT c) UST d) None of the above

689. During engine starting starter motor rotate (d)

a) 954rpm b) 1035-1050rpm c) 1085-110rpm d) 1200-4800rpm

690. Which of the following sensor is not fitted in the traction motor? (c)

a) Current sensor b) Speed sensor c) Air pressure sensor d) All of the above

691. Normal horsepower of WDP4D locomotives traction motor is (a)

a) 855hp b) 924hp c) 1025hp d) None of the above

692. Maximum starting tractive effort of WDP4D locomotive is (a)

a) 400kn b) 540kn c) 900km d) None of the above

693. Which of the following component are recently fitted in HHP Locomotive (d)

a) APU b) MCBG c) CREDI d) All of the above

694. HVAC fitted in HHP locomotive. What is full form of HVAC? (a)

a) Heating Ventilating and Air Conditioner b) High Voltage Air Conditioner
c) High Voltage Alternating Current d) None of the above

695. Epicyclic gear trains are used in HHP Locomotive TSC. Advantage of Epicyeclic gear trains is to (a)

a) Obtain high velocity ratio in comparatively lesser space
b) Obtain the desired direction of motion of drive gear
c) Transmit power when the distance between the two gear is large
d) None of the above

696. Function of EPU is to (d)

a) Measure the rpm of engine crankshaft.
b) Protect the engine crank shaft from damage due to hydraulic lock.
c)Limits the cranking speed to approximately 30rpm during the first engine crankshaft revolution.
d) All of the above

697. During EPD testing if throttle is above third notch then shut down will occur in (d)

a) Approximately 60 seconds. b) Approximately 40 seconds.
c) Approximately 35 seconds. d) Approximately 02 seconds.

698. Maximum speed of WDP4D Locomotive (b)

a) 105kmph b) 165kmph c) 140kmphd) 160kmph

699. Maximum speed of WDG4 Locomotive is (a)

a) 100kmph b) 105kmph c) 135kmph d) 160kmph

700. How many blades are in Radiator cooling fan? (b)

a) 6 b) 8 c) 10 d) None of the above

701. In MEDHA control system Radiator fan drop at (b)

a) Below 73^{o}c b) Below 79^{o}c c) Above 85^{o}c d) 96^{o}c

702. How many magnetic poles are connect in radiator fan circuit when run slow speed? (c)

a) 8pole b) 12pole c) 16pole d) None of the above

703. In WDP4DH, DH stand for ? (a)

a) Duel cab loco with Hotel load facility b) Double head loco with Hotel load facility
c) Disk brake loco with Hotel load facility d) None of the above

704. Which type of Battery Is used in WDG4/WDG4D Locomotive (a)

a) Lead acid battery b) Nickel cadmium (NiCd) battery
c) Nickel Metal hydride (NiMH) d) Lithium ion (Li-ion) battery

705. Auxiliary generator out put is utilised (d)
a) To excite the field of companion alternator b) For Battery charging
c) To run FPM d) All of the above

706. Specific gravity of fully charged battery of WDG4D locomotive is (d)
a) 1.1 b) 1.15 c) 1.17 d) 1.25

707. What is the rated capacity of battery fitted in WDG4D locomotive? (b)
a) 8V 450 Ah b) 8V 500 Ah c) 8V 155 Ah d) None of the above

708. What is the rated capacity of battery fitted in WDP4D locomotive? (c)
a) 450 Ah b) 500 Ah c) 155 Ah d) None of the above

709. There are how many batteries are fitted in WDG4D Locomotive? (b)
a) 2 b) 8 c) 10 d) none of the above

710. Aux. generator drive shaft coupler is renew during (c)
a) Yearly Schedule b) 2 Yearly Schedule
c) 3 Yearly Schedule d) 6 Yearly Schedule

711. Which solenoid valve is energizes during idle speed (d)
a) A b) A,C c) A,D d) None of the above

712. Which solenoid valve is energizes during 1st notch ? (d)
a)Minimum flash point of RR-460 is b) A,C c) A,D d) None of the above

713. How many poles are in main alternator (TA 17) ? (c)
a) 6pole b) 8pole c) 10pole d) 16pole

714. In MEDHA control system hot engine alarm come at (d)
a) 73°c b) 79°c c) 85°c d) 96°c

715. Atmospheric pressure is measured by (b)
a) Manometer b) Barometer c) Hydrometer d) Pyrometer

716. Radiator fan rpm is measured by (a)
a) Stroboscope b) Vibration meter c) Decibel meter d) Pyrometer

717. In MEDHA control system when turbo cool down cycle is running, radiator fan will drop at (a)
a) Below 73°c b) Below 79° c c) Above 85°c d) 96°c

718. In HHP locomotive Blended Brake cut out switch is located in (a)
a) Engine control panel b) Nose compartment
c) ECC2 d) ECC3

719. Engine model in HHP locomotive is (b)
a) 710G3B b) Gt46 MAC c) GT 46 PAC d) None of the above

720. Type of Traction Motors in HHP locomotive (a)
a) 3-phase AC motors b) DC series motors c) both a & b d) None of the above

721. In WDG4D locomotive EEC4 is located in (b)
a) Cab 1 b) Cab 2 c) Under truck d) near compressor room

722. In WDG4/WDP4 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 position

723. In WDG4 loco Battery ammeter consists of (a)
a) Green zone & Red zone b) Green zone & Yellow zone
c) Yellow zone & Red zone d) None of the above

724. In WDG4D locomotive PERCOS is provided on (c)
a) 16 CP b) 20 CP c) ERCP d) BP CP

725. Out of which safety device engine comes to Idle (d)
a) OST b) EPD c) HOD d) PCS

726. In HHP locomotive governor pump is driven by (a)
a) governor drive gear b) No1 idler gear c) No 2 idler gear d) cam gear

727. Accessory drive gear is fitted in the (a)
a) front end of the engine b) rear end of the engine
c) front & rear end of the engine d) None of the above

728. During EPD testing at idle engine should not be shut down before (d)
a) 120 seconds b) 50 seconds c) 60 seconds d) 35 seconds

729. Type of governor available in HHP locomotive (d)
a) Woodward governor b) MCBG c) EH governor d) both a & b

730. In HHP locomotive EPD is fitted in the (c)
a) right side front end of the engine
b) right side rear end of the engine
c) left side front end of the engine
d) None of the above

731. During EPD testing (engine running above 3rd notch) engine should be shutdown in(d)
a) 120 seconds b) 40 seconds c) 35 seconds d) immediately

732. Weight of WDG4 locomotive is (a)

a) 126T b) 123T c) 121.2 T d) 117 T

733. In HHP locomotive governor is fitted on (a)

a) front of the engine b) rear end of the engine
c) loco pilot cabin d) ECC-1

734. TM blower air duct (bellow) is changed at (d)

a) 360 days schedule b) 720 days schedule
c) 3 yearly schedule d) 6 yearly schedule

735. VCD alarm sound during (c)

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

736. In which VCD cycle, yellow flashing light will glow (d)

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

737. Starting fuse is located in the (a)

a) Left side of the locomotive b) Right side of the locomotive
c) Both side of the locomotive d) None of the above

738. Length of radiator cooling fan blade is (a)

a) 52" b) 48" c) 23" d) None of the above

739. Length of WDP4B locomotive is (b)

a) 22.98 meters b) 21.24 meters c) 21.7 meters d) None of the above

740. Dynamic brake grid motor is a (a)

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

741. To measure the speed of HHP locomotive____is used (c)

a) Axle generator b) Pulse generator c) Radar d) None of the above

742. Low lube oil shutdown by the governor is also initiated by (d)

a) HOD (Hot Oil Detector) b) EPD low cooling water pressure portion
c) EPD crankcase pressure portion d) All of the above

743. During 4th notch solenoid will pick up (d)

a) A b) B c) C d) A & C

744. In HHP loco FCF2A is located in____Panel (c)

a) ECC1 b) ECC2 **c)** ECC3 d) Breaker

745. Type of battery used in WDP4 loco is (b)

a) Lead acid b) Nickel Cadmium c) Lithium ion d) Any one of a,b,c

746. Function of VRR is to control_. (c)

a) Main generator b) Engine RPM c) AG output d) Radiator

747. GF contactor is used in_____circuit (b)

a) AG circuit b) EG circuit c) TG output d) Radiator fan

748. Loco hot engine alarm will come if engine temperature reaches_^{o}C (c)

a) 68 b) 74 c) 85 d) 90

749. _contactor is used in TCC input side (c)

a) Power b) GF c) DC link d) TCC

750. In HHP loco, Radiator Fan is getting power supply from _____

a) ECC1 b) ECC2 c) TA d) CA

751. ____Contactors are available in ECC2. (b)

a) Radiator fan b) starting c) GF d) TCC

752. In HHP loco pilot exciter is available in _machine (c)

a) Alternator b) Companion Alternator c) AG d) Radiator Fan

753. Maximum HP of WDP_{4D} loco is_____. (b)

a) 2600 b) 4500 c) 2400 d) 3300

754. Twin beam headlight bulb is having_____filaments (b)

a) 4 b) 2 c) 1 d) 8

755. Output of PSM 305 card is____Volts. (a)

a) 5 b) 10 c) 12 d) 15

756. Transition picks up at_kmph in WDG3A loco. (a)

a) 41.5 b) 42.5 c) 46.5 d) 52

757. Siemens HHP loco hasnumber of TCC. (b)

a) 1 b) 2 c) 6 d) 3

758. PRS unit is available in governor (c)

a) GE b) WOODWARD c) MCB d)NS16

759. In HHP loco Battery Charging Assembly is located in_Panel (b)

a) ECC1 b) ECC2 c) ECC3 d) Breaker

760. Type of battery used in WDG_4 loco is (a)

a) Lead acid b) Nickel Cadmium

c) Lithium ion d) Any one of a,b,c

761. In HHP loco, Function of DVR is to control (c)

a) Main generator b) Engine RPM c) AG output d) CA output

762. FCF2A contactor is used in___circuit (c)

a)TCC blower b) Filter blower c) Radiator fand) FPM

763. If MFPB trips on RUN engine will _____(b)

a) Idle b) shutdown c) over shoot d) none

764. In HHP loco, the normal maximum DC Link voltage is_____. (d)
a)600 b) 2000 c) 2500 d) 2600

765. In HHP loco, TCC Blower is getting power supply from_____. (d)
a) ECC1 b) ECC2 c) TA d) CA

766. _____Breaker is yellow labelled. (b)
a) Air brake b) computer c) TA d) CA

767. Medha HHP loco has _____number of Traction computers (c)
a) 1 b) 2 c) 6 d) 3

768. Actuator unit is available in governor (c)
a) GE b) WOODWARD c) MCBG d)NS16

769. In HHP loco auxiliary output side 250 Amps breaker is located in_____(b)
a) ECC1 b) ECC2 c) ECC3 d) Breaker Panel

770. FCS contactor is used in_____circuit (c)
a) TCC blower b) Filter blower c) Radiator fand) FPM

771. In HHP loco__sensor measures Turbo RPM. (a)
a) TPU b) EPU c) MPU d) BAP

772. The number of IGBT modules in EMD HHP Loco is___. (c)
a) 1 b) 2 c) 6 d) 3

773. In HHP loco MRPT is available in compartment. (c)
a) ECC1 b) ECC2 c) ECC3 d) Breaker Panel

774. Model no. of Traction Motor Speed Sensor used in MEP.Ver.3 loco is_____(a)
a) T.818 b) T.815 c) RDB d) ADB

775. Position of LCR in Woodward governor for maximum excitation is____(a)
a) 5.30 b) 6.30 c) 11 d) 3

776. Power deration starts if TANGI current above__mA. (a)
a) 400 b) 500 c) 800 d) 700

777. During 2nd notch solenoid will pickup. (a)
a) A_V b) B_V c) C_V d) A_V, B_V & C_V

778. Rating of starting fan fuse in HHP loco is_____Amps (d)
a) 800 b) 400 c) 200 d) 300

779. Pre lubrication will work for_____minutes in HHP loco. (d)
a) 30 b) 20 c) 10 d) 15

780. 1148) Output of HHP loco auxiliary generator is _____(c)
a) 72 V DC b) 72 V AC c) 55 V AC d) 74 V DC

781. In MEP loco__is used to sense power ground (c)
a) GR1 b) GR2 c) TANGI d) BANGI

782. The clearance between TM commutator and brush holder is_____(a)
a) 1.6 to 2.5mm b) 2.5 to 4.5 mm c) 1 to 2 inch d) 1 to 3 mm

783. Operating air pressure of BKT/REV is (ba)

a) 6 Kg / cm^2 b) 5 Kg / cm^2 c) 8 Kg/ cm^2 d) 10 Kg/ cm^2 (d)

784. After application of A9 auto flasher will not work for__seconds (a)

a) 60 b) 30 c) 90 d) 10

785. _____Button is to be pressed to avoid conjunction brake (a)

a) Quick releaseb) VCD c) AFL Reset d) Release/Run

786. _____relay operates EPG in MEP loco (a)

a) CMR b) DCR c) MVR d) RT5X

787. _____relay operates EPG in MEP loco (c)

a) CMR b) DCR c) MVR d) RT5X

788. _____is used in between TM commutator segments (c)

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

789. In MEP loco engine RPM is measured by_____(a)

(a) ESS (b)Tacho (c) TPU sensor (d)none of above

790. In Alternator R-Y-B coils are in (b)

a) Rotor b) Stator c) Armature d) None

791. Short term memory will be recorded in a time interval of_____sec. (d)

a) 10 Sec b) 20 Sec c) 2 Sec d) Each Sec

792. Total no. of batteries in WDG4 loco is_____(b)

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

793. Reverse bias in diode means connecting (b)

a) +ve to anode b) –ve to anode c) -ve to cathode d) None

794. Rating of MB1 is_____Amps (b)

a) 150 b) 200 c) 250 d) 15

795. Output of headlight DC-DC converter is _____(c)

a) 72V DC b) 72V AC c) 24V DC d) 24 V AC

796. In MEDHA VER.3 WDG3A loco, LAM gets supply from _____(c)

a) TM current b) LAM Shunt c) MEP- output d) TG

797. In HHP loco__valve controls MR cutin/ cutout (a)

a) MVCC b) EPG c) EBT d) RT5X

798. In ALCO loco, if_____relay drops then auto flasher will work. (c)

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

799. The number of DC Link Breaker in Medha Loco is____. (d)

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

800. BKBL is getting power from _____ (d)

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

DEMU

Qn.1. When OPS drops will cause? Ans: (B)

(A) Engine to Idle
(B) Engine shut down
(C) Hot Engine
(D) Lower water alarm

Qn.2. What is the OSTA tripping R.P.M. in DEMU? Ans: (D)

(A) 1900
(B) 2300
(C) 2200
(D) 2100

Qn.3. How many traction motor in DEMU? Ans: (B)

(A) 6
(B) 4
(C) 2
(D) 8

Qn.4. If any traction motor isolated in DEMU. What is engine R.P.M.? Ans: (D)

(A) 750
(B) 1200
(C) 1000
(D) 1300

Qn.5. How many engine speed sensors available in 1400 HP DEMU? Ans: (A)

(A) 2
(B) 1
(C) 3
(D) 4

Qn.6. 1400 HP DEMU engine R.P.M. at idle? Ans: (D)

(A) 400
(B) 500
(C) 600
(D) 700

Qn.7. 1400 HP DEMU engine R.P.M. at 8^{th} notch? Ans: (D)

(A) 1000
(B) 1100
(C) 1500
(D) 1800

Qn.8. No of power contraction in 1400 HP DEMU? Ans: (C)

(A) 2
(B) 6
(C) 4
(D) 8

Qn.9. What the 'DEAD MAN' handle operate in running? Ans: (B)

(A) Engine shot down
(B) Engine come to idle
(C) OSTA tripped
(D) Engine R.P.M. raised

Qn.10.How many carbon grosses in 1400HP traction alternator ? Ans: (A)

(A) 2
(B) 4
(C) 6
(D) Nil

Qn.11. In DEMU engine starting and engine safety circuit voltage ? Ans: (B)

(A) 110 V
(B) 24 V
(C) 72 V
(D) 12 V

Qn.12. In DEMU control, fan and light supply voltage? Ans: (A)

(A) 110 V
(B) 24 V
(C) 72 V
(D) 12 V

Qn.13. DEMU head light DC-DC converter input voltage? ANS: (D)

(A) 12 V
(B) 72 V
(C) 24 V
(D) 110 V

Qn.14. No of reverser in 1400 CGC DEMU? Ans: (D)

(A) 4
(B) 3
(C) 2
(D) 1

Qn.15. No of reverser in 1400 HP BHEL DEMU? Ans: (B)

(A) 1
(B) 2
(C) 3
(D) 4

Qn.16. How many jumper cables are available in 1400 HP DEMU? Ans: (D)

(A) 4
(B) 2
(C) 3
(D) 5

Qn.17. 24 V alternator drives by no of belts? Ans: (A)

(A) 1
(B) 2
(C) 3
(D) 4

Qn.18. 24 V alternator make in 1400 HP DEMU? Ans: (A)

(A) TBS local
(B) C.G.C.
(C) BHEL
(D) KEL

Qn.19. 110 V AC alternator make in 1400 HP DEMU? Ans: (D)

(A) TBS local
(B) C.G.C.
(C) BHEL
(D) KEL

Qn.20. 1600 HP DEMU engine idle,R.P.M.? Ans: (B)

(A) 700
(B) 750
(C) 400
(D) 600

Qn.21. 1400 HP DEMU when low cooling water level (LCWL) sensor operated?

(A) Engine to idle Ans: (B)
(B) Engine shutdown
(C) Hot engine
(D) Engine to 8^{th} notch

Qn.22. When the parking brake applied the parking brake gauge shows? Ans : (C)

(A) $5Kg/cm^2$
(B) $7Kg/cm^2$
(C) $0Kg/cm^2$
(D) $3.5Kg/cm^2$

Qn.23. 1400 HP DEMU when the T.M. ********** load I.D. coming the load motor shows? Ans: (C)

(A) Max
(B) Min.
(C) Zero
(D) No of the above

Qn.24. 1400 HP DEMU in E.P.brake system application magnetic valve is? Ans: (B)

(A) N.O.(Normally open)
(B) N.C.(Normally close)
(C) N.O.& N.C
(D) None of the above

Qn.25. 1400HP DEMU in E.P brake system holding magnetic valve is? Ans: (A)
(A) Normally Open
(B) Normally Close
(C) Normally Open & Normally Close
(D) None of the above

Qn.26.1400HP DEMU formation having no. of coaches? Ans: (A)
(A) 2 DPC+6TC
(B) 2DPC+10TC
(C) 2 DPC+4TC
(D) 1 DPC+6TC

Qn.27.1600 HP DEMU formation having no. of coaches? Ans: (C)
(A) 2 DPC+6TC
(B) 2 DPC+10TC
(C) 2 DPC+8TC
(D) 2 DPC+4TC

Qn.28.1400 HP DEMU 4^{th} Notch RPM? Ans: (C)
(A) 1000
(B) 1200
(C) 1300
(D) 1400

Qn.29. Hot Engine Alarm experienced in 1400 HP DEMU water temperature is? Ans: (B)
(A) 85˚C
(B) 93˚C
(C) 78˚C
(D) 68˚C

Qn.30. No. of Traction Motors available in single DPC? Ans: (A)
(A) 4
(B) 2
(C) 6
(D) None of the above

Qn.31. Type of Traction Motors use in DEMU's are _____? Ans: (A)
(A) DC series wound
(B) D
(C) D
(D) D

Qn.32. No. of poles in Traction Motor is? Ans: (B)

(A) 6
(B) 4
(C) 8
(D) 2

Qn.33. Cooling type used in DEMU Motors_____? Ans: (A)

(A) Self ventilated
(B) Under ventilation
(C) Ot
(D) None of the above

Qn.34. No. of Isnpection covers available for such traction motor? Ans: (B)

(A) 2
(B) 3
(C) 4
(D) 5

Qn.35. Continuous rations of the DEMU Traction Motor is _____? Ans: (B)

(A) 550V, 410A, 210KW, 1150RPM
(B) 557V, 415A, 212KW, 1160RPM
(C) 558V, 420A, 214KW, 1170RPM
(D) 560V, 421A, 215KW, 1178RPM

Qn.36.Insulation class used for Armature and field in_____? Ans: (C)

(A) D
(B) F
(C) H
(D) J

Qn.37. No. of commutator segments available on DEMU Traction Motor____? Ans: (B)

(A) 240
(B) 210
(C) 200
(D) 230

Qn.38. No. of brush holders available per motor_____? Ans: (B)

(A) 2
(B) 4
(C) 6
(D) 8

Qn.39. No. of brushes per arm is ___? Ans: (A)

(A) 2
(B) 4
(C) 6
(D) 8

Qn.40.Type of grease used for lubricating pinion and commutator end is__? Ans: (A)

(A) Servogem-RR3
(B) Servogram-RR4
(C) Sangram-3
(D) None of the above

Qn.41. Quantity of grease for first fill at pinion end is ____? Ans: (A)

(A) 565 Grams
(B) 570 Grams
(C) 585 Grams
(D) None of the above

Qn.42.Quantity of grease for first fill at Commutator end is _____? Ans: (B)

(A) 220 Grams
(B) 227 Grams
(C) 230 Grams
(D) 250 Grams

Qn.43. No. of teeth's available of DEMU Traction Motor pinion gear is _____? Ans: (B)

(A) 22
(B) 20
(C) 25
(D) 24

Qn.44. Brush grade used in BHEL Motor type TM4303DY is _____? Ans: (A)

(A) EG14D
(B) EG16D
(C) EF14D
(D) EF16D

Qn.45.Condemn size of TM Brush EG 14D is _____? Ans: (A)

(A) 25mm
(B) 30mm
(C) 15mm
(D) None of the above