Syllabus for the Post of JE/DSL-Elec Promotional Against 25% Quota – DTTC/DLS/KZJ

Annexure:I

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1. Diesel rail traction – General principles – Relative merits and demerits compared to other mode of traction.
2. Need to operate transmission system in a diesel electric locomotive. Types of transmission in use. Relative merits of diesel electric transmission system with diesel hydraulic transmission system.
3. Diesel Electric locomotives – Types and standard notations adopted. Use of monomotor bogies and nose suspended different types of suspension in use.
4. Continuous rating and sustained attractive effort/dynamic brake effort of diesel electric locos their significance and evaluation- Valuation of load haulage ability and controlling ability of diesel electric locomotives.
5. knowledge of different types of diesel electric locomotives in use- the characteristics and suitability for adoption types of services.
6. Through knowledge of different types of excitation system provided on diesel electric locomotives and methods of governing power plans systems-Electro hydraulic governor MCBG and its functioning.
7. Application of semi-conductor components in the diesel electric locomotives control system – comparative advantage – Principles of working transistor circuits.
8. Knowledge of specification of different equipment in use in the diesel electric locomotives – Insulating materials used and their specification – selection of suitable material and their requirements – cleaning solvents used their requirements.
9. Load testing of locomotives – Objects of conducting load test significance of the different readings and adjustment to be made , horse power limit and current limit test, efficient calculation, etc.
10. Estimation of power requirements for the different service equipments provided in the sheds/shops. Designing power system layout for a repair shop including sub-station capacity, location-etc.
11. Fuel economy – estimation of fuel consumption – factors affecting fuel consumption.
12. Indian electricity Act & Rules – working knowledge regarding compliance with Indian electricity Act & Rules – precautions to be taken in the installation of electric equipments electrical accident and procedure for reporting for reporting the same both under the Indian electricity Act and under the regulations for safe working of electrical equipment on Indian railways.
13. knowledge of repair methods – reclamation techniques for components used on the locomotives –sound knowledge of testing of different types of locomotives – knowledge of insulation characteristics and amperage.
14. Trends in the development of diesel locos – channels of transmission systems, detailed knowledge of modifications.
15. Working of voltage regulators – clear understanding of various types of voltage regulators available and understanding of the circuitry of the IC version of the voltage regulators.
16. Maintenance schedules-General principles of formulating the same and sound knowledge of the schedules maintenance practices- sound knowledge of trouble shooting of the electric circuits and components.
17. Advance appreciation of semi-conductor devices in the transistors - and also familiarity with IC engines and their catalogue.
18. Detailed knowledge of kits for electronic parts provided on the locomotives. (Both Alco & HHP locos).
19. Detailed knowledge of auto flasher, VCD, Speedometer and other safety devices on the loco.
20. Detailed knowledge of modifications/ add on units such as APU, CReDI, REMMLOT, DPCS &TCAS.

General:

As per extant instructions at least 10% of the total marks prescribed for the written test should be on official policy and rules on optional basis

29.12.23

DME/DSL/KZJ

Annexure-II

DTTC/KZJ/SCR

Multiple Choice Question Bank for JE(against 25% Promotional Quota) /DSL-(Electrical)

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 up c)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 working control stand (c)
a)Auto Brake handle should be kept in RUN b)Direct Brake should be kept in Full Application c)Both a and b d)LT switch in Trail

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 WDP1 is: (a)
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) WDP1 loco transmission is _____ (b)
a) DC b)Electrical c)Mechanical d)Both B&C

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

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

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

106) _____ 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

107) 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

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

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

110) 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 than 500

111) 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

112) 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

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

114) 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

115) 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

116) Shutting down of all diesel engines in a consist is accomplished ___ relay(c)
a)DMR b)GCR c)SDR d)FLR

117) 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

118) 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

119) 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

120) 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

121) 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

122) 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

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

124) 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

125) 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

126) 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

127) 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

128) "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

129) 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

130) 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

131) 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

132) 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

133) How Crank case vacuum is maintained in WDG4/WDP4 engines ? (c)
a)Blower b)Crank case exhauster c) Eductor d)No vacuum creation

134) 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

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

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

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

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

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

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

141) 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

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

143) 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

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

145) 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

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

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

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

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

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

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

152) MR safety valve is set at_____ Kg/Cm2 pressure. (c)
a) 8 b)9 c)10.5 d)9.5

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

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

155) 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

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

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

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

159) 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

160) 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

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

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

163) 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

164) 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

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

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

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

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

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

170) For any reason, a train is brought to a stand, the hand brakes of Locomotive and formation shall be applied if stoppage is more than (d)
a) 5 minutes b) 10 minutes c) 20 minutes d) 15 minutes

171) How the notching up is to be done in Undulating terrain ? (c)
a) Repeatedly changing the notches b) without notching up
c)Constant notches to be maintained D)none of the above

172) 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

173) 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

174) 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

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

176) 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.

177) What should be done first for changing console in WDG 4 / WDP 4 locos ? (a)
a)Disable working control stand & enable non working control stand
b)Enable working control stand & disable non working control stand
c)As per convenience
d)None of the above

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

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

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

181) On run if Air Flow Indictor overshoots with jerk indicates_____ (d)
a)Air brake failure b)Loco failure c)Air flow indicator defective d)Train Parting

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

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

184) 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

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

186) 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

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

188) After which check/restriction, non derailed vehicles of a train involved in accident be allowed for on-ward journey (b)
a) Without check b) After certified by TXR c)With 10% less speed d)80 KMPH

189) What immediate action would you take on noticing sudden drop of BPpressure/vacuum on run ? (c)

a) Stop the train b) Contact Guard on VHF c) Switch on Flasher light
d)Inform PRC

190) 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

191) What should be done by LP for releasing proportional loco brakes during A9 application ? (c)
a) Pressing BKIV foot pedal b) Application of DB c) Either A or B d) None

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

193) If BP & FP pipes are wrongly connected ---- will fail. (b)
a) Loco is failed b) Formation Brakes c) Loco brakes d)All

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

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

196) 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

197) 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

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

199) 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

200) 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

201) 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

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

203) 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

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

205) 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

206) 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

207) 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

208) 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

209) 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

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

211) 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

212) 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

213) 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

214) 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

215) 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

216) 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 (Below 1.6Kg/Cm d) All the above

217) 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

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

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

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

221) 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

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

223) 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

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

225) 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

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

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

228) 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

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

230) 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

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

232) 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

233) 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

234) 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

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

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

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

238) 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

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

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

241) 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

242) 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

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

244) 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

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

246) 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

247) 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

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

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

250) 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

251) 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

252) 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

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

254) 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

255) BP pressure in Alco locomotive is _____ kg/cm² (b)

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

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

257) 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

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

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

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

261) Control air pressure in Alco loco _____ kg/cm² (c)
a)3.5 b) 4 c) 5 d) 6

262) Fuel tank capacity in WDG3A loco is _____ liters. (c)

a)5000 b) 5500 c) 6000 d) 4000

263) Pinion to Bull gear ratio in WDM2 loco is _____ (b)

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

264) Pinion to Bull gear ratio in WDG3A loco is _____ (a)

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

265) Pinion to Bull gear ratio in WDP4 loco is _____ (c)

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

266) Pinion to Bull gear ratio in WDG4 loco is _____ (d)

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

267) WDM3A loco is having ____ no. of brake blocks (b)

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

268) Pinion to Bull gear ratio in WDM3A loco is _____ (b)

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

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

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

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

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

271) Type of transmission in WDM3A loco (b)

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

272) Type of transmission in WDG3A loco (b)

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

273) Type of transmission in WDG4 loco (d)

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

274) Type of transmission in WDP4 loco (d)

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

275) In Alco loco LWS is located in _____ (c)

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

(d) Radiator room

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

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

277) In Alco locomotive Battery knife switch is located in _____ (a)

a) Nose Compartment b) Driven cabin

c) Compressor Compartment d) Radiator room

278) Type of engine in Alco loco (c)

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

279) Torque value of water jumper in Alco loco (in ft-lb) (b)

a)50 b) 75 c) 100 d) 125

280) No. of positions in SA9 valve (b)

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

281) In Alco loco fuel oil regulating valve is set at ____ kg/cm² (b)

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

282) In Alco loco lube oil relief valve is set at ____ kg/cm² (d)

a)6 b) 7 c) 8 d) 9

283) In WDG3A loco max. exhaust gas temperature is _____ ºC (b)

a)500 b) 525 c) 600 d) 625

284) In Alco loco compressor is cooled by _____ (c)

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

285) VCD penalty takes place after _____ sec. (b)

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

391. MR safety valve is set at _____ kg/cm² (d)

a)8 b) 8.5 c) 10 d) 10.5

286) In Alco loco EPG is located in _____ (c)

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

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

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

288) In Alco Traction Motor gear case is having ___ no. of bolts (c)

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

289) To find out BP leakage in the formation _____ is provided (b)

a)BP gauge b) Air Flow Indicator c) FP gauge d) Spy glass

290) In Alco loco, if water level comes down below 1" from bottom of tank ____ safety device will operate (c)

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

291) Wheel numbers to which brake blocks get applied when hand brake is applied in WDG3A loco (b)

a)L1,L2 b) R1,R2 c) L1,R1 d) L2,R2292)

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

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

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

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

294) In Alco loco Sanders are operated through ____ pressure (a)

a) MR1 b) MR2 c) FP d) None

295) Rectifier converts (a)

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

296) Inverter converts (b)

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

297) Idle RPM of WDG3A locomotive is (b)

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

298) 8th RPM of WDG3A locomotive is (d)

a)400 b) 950 c) 1000 d) 1050

299) Low Idle RPM of WDG3A locomotive is (a)

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

300) Fabricated bogie is available in _____ locomotive (c)

a)WDM3A b) WDG4 c) WDG3A d) WDP4

301) Type of bogie available in Alco loco locomotive (b)

a)BO-BO b) CO-CO c) BO1-1BO d) HTSC

302) Horse power of WDM3D locomotive is (c)

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

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

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

304) Type of bogie available in WDG4 locomotive is (c)

a)Tri mount b) Fabricated c) HTSC d) None

305) Number of brake cylinders in WDM3A locomotive is (b)

a)4 b) 8 c) 10 d) 12

306) Reduction in BP pressure causes (c)

a)Brakes release b) Brakes slow release

c) Brakes application d) MR pressure increasing

392. WDM3A loco is having ____ no. of brake blocks (b)

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

393. Pinion to Bull gear ratio in WDM3A loco is _____ (b)

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

307) In Alco loco fuel oil relief valve is set at ____ kg/cm² (a)

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

308) In Alco loco fuel oil regulating valve is set at ____ kg/cm² (b)

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

309) VCD penalty takes place after _____ sec. (b)

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

310) MR safety valve is set at _____ kg/cm² (d)

a) 8 b) 8.5 c) 10 d) 10.5

311) In Alco loco EPG is located in _____ (c)

a) Driver cab b) Nose compartment

c) Compressor compartment d) Radiator room

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

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

313) In Alco Traction Motor gear case is having ___ no. of bolts (c)

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

314) To find out BP leakage in the formation _____ is provided (b)

a)BP gauge b) Air Flow Indicator c) FP gauge d) Spy glass

315) In Alco loco, if water level comes down below 1" from bottom of tank _____ safety device will operate (c)

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

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

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

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

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

317) In Alco loco Sanders are operated through ____ pressure (a)

a)MR1 b) MR2 c) FP d) None

318) Rectifier converts (a)

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

319) Inverter converts (b)

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

320) Idle RPM of WDG3A locomotive is (b)

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

321) 8th RPM of WDG3A locomotive is (d)

a)400 b) 950 c) 1000 d) 1050

322) Low Idle RPM of WDG3A locomotive is (a)

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

323) Fabricated bogie is available in _____ locomotive (c)

a)WDM3A b) WDG4 c) WDG3A d) WDP4

324) Hot Engine Alarm will come at _____ °C in WDG3A locos (c)

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

325) Electro Pneumatic Governor is located in (a)

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

327) 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

328) MR pressure unloading takes place at _____ kg/cm² (a)

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

329) From where the control air pressure gets charged (a)

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

330) 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

331) On WDG3A each truck is fitted with _____

arrangement of traction motors (d)

a) b) LRR c) LRL d) LLL & RRR

332) In WDG3A loco when A9 is brought to Emergency position, action

takes place in Auto Flasher system is (a)

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

c) GFOLR will trip d) Flasher light will glow

333) Power contactors fluttering is due to (c)

a) Less magnetism b) Load meter defective

c) Less control air pressure d) Week batteries

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

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

335) In WDG3A loco whenever BP drops below ____ kg/cm²

Other than A9 operation Auto flasher will come (b)

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

336) In Twin beam head lights __ volts halogen lamps are used (c)

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

337) In twin beam head light system in DC-DC converter if one unit is defective the stand by unit can be brought into function by (a)

a) Operating change over switch on DC-DC converter

b) By changing to other control stand

c) By replacing bulb d) none

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

a) Compressor compartment b) Excitation Panel

c) LP cab d) Existing location of Governor

339) 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

340) The conventional Electronic type excitation system is

replaced with _____ (a)

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

341) In Alco loco SP1 is provided for (b)

a)Over charging b) Quick charging c) resetting AFL d) resetting VCD

342) In Alco loco MV27 switch is provided for (a)

a) Over charging b) Quick charging c) resetting AFL d) resetting VCD

343) In Wood ward governor loco LLOB tripping is set at

_____ kg/cm² in Idle (a)

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

344) In Wood ward governor loco LLOB tripping is set at

_____ kg/cm² in 8^{th} notch (c)

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

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

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

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

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

347) L5 HP pipe line is cracked (b)

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

348) When GF contactor is packed loco can be worked in ____ (c)

a) by manual transition b) only in parallel

c) series parallel d) normal

349. During dynamic braking ____ valve avoids loco brake to apply (c)

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

350. 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

351. If electrolyte leaks from battery, ____ will happen (a)

a) Starting ground b) battery discharging

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

352. When train parting on run ____ will operate to bring engine speed to Idle (a)

a) PCS2 b) P1 c) P2 d) Both b & c

353. In short hood control stand _____ duplicate breaker is provided (d)

a) MCB b) MFPB c) AGFB d) ERF

354. The safety device provided in brake system is (b)

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

355. Dust exhaust motor is available for _____ (b)

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

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

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

357. 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

358. To protect power circuit from earth fault ____ relay is provided (b)

a) DMR b) GR c) ESR d) SAR

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

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

360. In WDG3A LWS located in _____ (b)

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

361. In WDM3A axle boxes are lubricated by _____ (c)

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

362. Malfunctioning of LWS leads engine to _____ (c)

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

363. Position of EPG switch on control stand in rear loco of MU is set __ (c)

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

364. Auto flasher light comes into action if ____ (c)

a) A9 applied b) SA9 applied

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

d) Dynamic brake applied

365. AFL gets operated during _____ (d)

a) D1 emergency b) ACP c) Guard application d) all the above

366. Control air pressure in loco (a)

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

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

a) Main Generator b) Auxiliary generator & Exciter generator

c) Auxiliary generator d) Exciter generator

368. ____ 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

369. ____ 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

370. 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

371. In conventional locos, when VCD is acted (d)

a) Engine comes to Idle b) BP drops

c) Brakes will apply d) all the above

372. For resetting VCD wait for ____ seconds (b)

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

373. If emergency applied _____ operates and engine comes to Idle (c)

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

374. If water temperature raises to 90°C ____ will operate (a)

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

375. If LWS operates engine comes to (b)

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

376. EPG will maintain MR pressure between ___kg/cm² to ___ kg/cm² (c)

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

377. If ETS is operated, engine RPM will _____ (c)

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

378. If LWS is operated _____ indication is displayed (c)

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

379. 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

380. 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

381. Horse Power of WDM3D is (b)

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

382. In WDM3A radiator fan rotates at ___ different speeds (a)

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

383. Air dryer is provided between (b)

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

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

384. Gear case of Alco locomotive is lubricated by (d)

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

385. Number of transitions in AC-DC locomotive (a)

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

386. ___ type of fire extinguisher is provided in DE locomotives (b)

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

387. ECC (Edddy Current Clutch) is located in (b)

a) Compressor room b) Radiator room

c) Engine room d) Generator room

388. LLOB is provided in ___ governor (a)

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

389. If OSTA trips, engine will come to (b)

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

390. If ECC is short circuited ___ breaker will trip (a)

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

391. 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

392. Sanders test on WDG3A to be conducted by keeping reverser handle in ___ position (d)

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

393. In AC-DC loco if CK3 N/C interlock is defective ___ contactor will not pick up (a)

a) GF b) FPC c) CK1 d) CK2

394. Starting ground occurs due to earth fault in ____ circuit (a)

a) Control b) power c) both a & b d) None

c) Radiator room d) under truck

395. In WDM3A fuel pump motor is located in (a)

a) Compressor room b) Engine room

c) Radiator room d) under truck

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

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

397. In Alco loco BKBL is located in (c)

a) Engine room b) Compressor room

c) Nose compartment d) Radiator room

398. BKBL gets current from (c)

a)Battery b) Auxiliary generator

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

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

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

400. 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

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

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

402. 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

403. If engine is not cranking ____ switch is to checked in nose compartment (a)

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

404. If engine is not cranking ___ contactor to be checked (d)

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

405. 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

406. 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

407. 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

408. When does AFL operate? (d)

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

409. What is the effect of AFL operation (d)

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

410. 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

411. Horse Power of WDG4 locomotive (d)

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

412. Type of diesel engine in WDG4 locomotive (b)

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

413. Pinion to Bull gear ratio in WDG4 locomotive (d)

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

414. Pinion to Bull gear ratio in WDP4 locomotive (b)

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

415. Maximum speed of WDG4 locomotive (a)

a) 100 b) 150 c) 160 d) 180

416. Maximum speed of WDP4 locomotive (c)

a) 120 b) 150 c) 160 d) 180

417. Transmission in WDG4 locomotive is (b)

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

418. Fuel tank capacity in WDG4 locomotive (c)

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

419. Type of diesel engine fitted WDG4 locomotive (c)

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

420. Number of power contactors in HHP locomotive (a)

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

421. Number of cylinders in WDG4 locomotive (b)

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

422. Type of traction motors in HHP locomotive (a)

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

423. _____ type of speedometer is available in HHP locomotive (b)

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

424. In WDG4 locomotive hot oil detector is set at _____ °C (b)

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

425. Blended brake is available in _____ locomotive (b)

a)WDG4 b) WDP4 c) WDG3A d) WDM3A

426. Full RPM of WDG4 locomotive (c)

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

427. Idle RPM of WDG4 locomotive (b)

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

428. Low Idle RPM of WDG4 locomotive (a)

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

429. Minimum continuous speed of WDG4 locomotive (in Kmph) (b)

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

430. Type of bogie in WDG4 locomotive (b)

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

d)None

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

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

432. Type of bogie used in HHP locomotive (c)

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

433. Type of Air brake system in HHP locomotive (c)

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

434. In HHP locomotive if water pressure is less (c)

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

c) Both a & b d) None

435. In HHP locomotive, while conducting Air brake self test working control stand L/T switch should be kept in _____ position (c)

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

436. In HHP locomotive, while conducting BP leakage test L/T switch should be kept in _____ position (a)

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

437. In WDG4 banker loco working control stand Auto brake handle should be kept in _____ position (c)

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

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

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

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

a) Primary filter choked b) Spin on filter choked

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

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

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

c) Both A & B d) None

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

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

442. Oil lubricated TM gear case is provided in (c)

a) WDM2 b) WDM3A c) WDG4 d) WDG3A

443. Loco model of WDG4 (b)

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

444. Loco model of WDP4 (a)

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

445. Number of batteries in WDG4 loco (c)

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

446. Number of batteries in WDP4 loco (b)

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

447. Number of axles in WDP4 loco (b)

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

448. Number of positions in Direct Brake of WDG4 loco (a)

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

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

a) 538ºC b) 438ºC c) 338ºC d) None

450. Number of radiator fans in HHP locomotive (a)

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

451. Number of water pumps in HHP locomotive (a)

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

452. Number of brake blocks in HHP locomotive (c)

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

453. Brake cylinder pressure in HHP locomotive (in Kg/cm²) (b)

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

454. In HHP locomotive hand brake applies on wheels (a)

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

455. Diameter of new wheel in HHP locomotive (in mm) (b)

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

456. To check engine sump oil level, engine should be in ____ condition (b)

a) Shut down b) Idle c) 4th Notch d) 2ndNothch

457. Number of after coolers in HHP locomotive (a)

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

458. Number of water expansion tanks in HHP locomotive (b)

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

459. 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

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

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

461. Function of Traction Inverters in HHP locomotive (a)

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

b) Both A & B d) None

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

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

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

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

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

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

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

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

466. 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

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

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

468. In HHP loco, STA, ST contactors are located in (b)

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

469. In HHP loco, ECC-1 is located in (a)

a) Driver Cabb) Under Truck c) Near Compressor Room d) None

470. In HHP loco, ECC-3 is located in (c)

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

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

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

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

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

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

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

474. In HHP loco, if AGFB tripped (c)

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

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

475. Model of Main Generator assembly in WDG4 loco (a)

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

476. Model of Aux Generator assembly in WDG4 loco (b)

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

477. Model of Traction Motor in WDG4 loco (c)

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

478. Speed of Traction Motor in WDG4 loco in RPM (a)

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

479. In WDG4 loco Traction Motor is …… (a)

a) Force air ventilated cooled b) oil cooled

c) Water cooled d) None

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

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

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

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

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

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

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

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

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

a) ECP b) Engine room

c) Control stand d) None

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

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

486. In WDG4 loco Brake warning indication indicates (b)

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

c) Excessive Air Braking d) None

487. 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

488. 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

489. 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

490. In WDG4 loco, Radiator fan controlled by (a)

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

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

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

492. In WDG4 loco compressor is cooled by (d)

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

493. In WDG4 loco turbo is cooled by (c)

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

494. In WDG4 loco power contactors are replaced with (d)

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

495. In WDG4 (ECS) isolation switch is having ____ no. of positions (b)

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

496. 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

497. For quick charging of BP in WDG4 loco, _____ is used. (d)

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

498. _____ brake available only in WDP4. (c)

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

499. Blended Brake is a mixture of (b)

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

c) Formation + Loco d) Dynamic + Loco

500. In WDP4 loco when loco is moving in opposite direction to the reverser position_____ will happen soon the speed increases to 5 kmph. (a)

a) Dynamic brake comes into action b) Alerter will come into function

c) Power ground will take place d) loco will shut down

501. When wheel is floated speed is restricted to _____ kmph. (b)

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

502. Excess brake cylinder pressure can cause (c)

a) Quick speed dropping b) Train brakes not required

c) Wheel skidding d) Dynamic brake not necessary

503. In fuel oil system ____ type of filters are used (d)

a) Socks type b) Foam type c) Mesh type d) Paper type

504. While EOT (Engine on Train) L/T switch should be in ___ position (d)

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

505. Bail off ring is operated to nullify _____ brake (d)
a) Loco b) Formation c) blended d) conjunction

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

507. In HHP loco conjunction brake pressure is ____ kg/cm² (b)
a)3.5 b) 1.8 c) 5.0 d) 5.2

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

509. In HHP loco MVCC is connected in ____ line (b)
a) MR2 b) MR1 c) BP d) FP

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

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

512. Horns are operated from (a)
a) MR1 b) MR2 c) MREQ d) BCEQ

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

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

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

516. In WDG4/WDP4 loco crank case vacuum is maintained by (b)
a) CCEM b) Eductor c) Breather valve d) vacuum pump

517. In HHP loco MRPT is located in (d)
a) Nose compartment b) ECC1
c) ECC2 d) ECC3

518. In HHP loco MVCC is located in (b)
a) Nose compartment b) Compressor room
c) Radiator room d) Under Truck

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

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

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

522. No. of grid blower motors in WDG4 loco (b)
a) 01 b) 02 c) 03 d) 4

523. 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

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

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

526. Battery charger rectifies AC to DC of (a)
a) Aux. generator output b) companion alternator output
c) Main alternator output d) None

527. BP continuity not getting to train from a working WDG4 loco (d)
a) Additional BP coc closed in train end
b) BP angle coc defective c) in train end no BP pressure in loco
d) All the above

528. 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

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

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

531. 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

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

533. 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

534. 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

535. 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

536. 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

537. In WDG4/WDP4 locos Hand brake applies on wheels (a)
a)R4, R5 b) R4, L4 c) R5, R6 d) L4, L5

538. Brake cylinder pressure (in kg/cm^2) in WDG4/WDP4 loco (a)
a) 5.2 b) 4.8 c) 3.8 d) 3.5

539. MR pressure not building up due to (d)
a) MREq coc in open condition
b) EBT valve defective
c) Defective MVCC
d) All the above

540. Type of bogie in WDG4 locomotive (b)
a) BO-BO b) CO-CO c) BO1-1BO d) fabricated

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

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

543. 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

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

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

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

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

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

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

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

551. To reset VCD Reverser should be in ____ position (d)

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

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

553. 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

554. 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

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

556. 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

557. 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

558. 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

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

560. 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

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

562. 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

563. 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

564. 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

565. 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

566. 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

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

568. 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

569. 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

570. 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

571. 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

572. 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

573. 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

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

575. 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

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

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

578. 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

579. 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

580. 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

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

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

583. 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

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

585. 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

586. To get quick charging of BP which should be operated? (b)

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

587. 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

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

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

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

591. 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

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

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

594. 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

595. 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

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

597. 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

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

599. 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

600. 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

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

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

663. 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

664. 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

665. 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

666. 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

667. 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

668. 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

669. Use of Dynamic Brake is_____ (b)

a) To raise the engine RPM

b) To control the train and to maintain constant speed at PSR , TS Rand Loop lines

c) To nullify the conjunctional brakes d) To stop the train

670. When Head light become defective speed of the train shall not exceed ? (c)

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

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

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

672. The lead /Trail switch position in consol of WDG4/WDP4 working as MU trailing is (a)

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

673. If WSR3 energizes both in SP and P combination (c)

a) TM3 defective b) TM4 defective c) TM6 defective d) TM2 defective

674. If traction motor 2 is defective during SP and parallel combination (b)

a) WSR1 will energize b) WSR2 will energize

c) WSR3 will energize d) WSR will not energize

675. 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

676. Loco should not be moved if water level above rail is (a)

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

677. Side load pads are provided in this type of under truck (b)

a) Tri mount bogie b) Fabricated bogie c) HTSC bogie d) both b and c

678. If FSR is not picking at 30 KMPH (b)

a) continuous wheel slip will be experienced b) 1st transition will not pick up

c) power ground will be experienced d) 2nd transition will not pick up

679. Continuous wheel slip will be experienced during 1st transition if (c)

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

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

680. How to reset the VCD penalty brakes in Alco locos (c)

a) Bring TH to idle b) Reset after 35secs

c) Both a and b d) Engine will get shut down

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

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

683. 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

684. 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

685. Hot engine alarm will be experienced after (d)
a) TS1 picks up b) LLOB operates
c) TS2 picks up d) ETS picks up

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

687. 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

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

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

690. 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

691. 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 over shoot with alarm bell ringing d) Engine will shutdown

692. Continuous working in restricted zone will cause (b)
a) continuous wheel slip b) power ground

c) Hot engine alarm d) Engine shutdown

693. 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

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

695. 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

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

697. 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

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

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

700.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

701. 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.

702. 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

703. 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

704. 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.

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

706. 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

707. 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.

708. 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

709. 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.

710. 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

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

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

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

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

715. 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

716. 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

717. 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

718. 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

719. 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

720. 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

721. 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

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

723. 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

724. 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

725. 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

726. 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

727. 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

728. 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

729. 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

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

731. Main reservoir safety valve is set at _____kg/cm² (a)
a) 10.5 b)8 c) 9 d) 9.5

732. FTTM drives with (c)
a) Electric motor b) Belts c) Gear d) Hydraulicpressure

733. HP of WDP1 is (d)
a) 1400 b) 1800 c) 2400 d) 2300

734. Latest modified lube oil cooler is of _____type (b)
a) Drum b) plate c) Paper d) Roll

735. Max. continuous current of Traction Alternator is_____ Amp (b)
a) 1200 b) 1250 c) 1150 d) 1050

736. To isolate TM 1 ____ power contactor to be isolated (b)
a) P-1 b) P-2 c) P-22 d) P-21 B

737. To isolate TM 2 _____ power contactor to be isolated (d)
a) P-1 b) P-2 c) P-22 d) P-32

738. To isolate TM 4 __ power contactor to be isolated (c)

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

739. To isolate TM 5 ___power contactor to be isolated (b)
a) P-22 b) P-31 c) P-21 d) P-22

740. To isolate TM 6 __ power contactor to be isolated (a)
a) P-21 b) P-31 c) P-22 d) P-32

741. To isolate TM3 __ power contactor to be isolated (a)
a) P-22 b) P-32 c) P-21 d) P-31

742. In Alco loco Turbo supercharger is rotated by _____ (b)
a) Cam gear b) Exhaust gasses c) Crank shaft d) AC motor

743. WDP1 loco transmission is ___ (b)

a) DC b) Electrical c) Mechanical d) Both B&C

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

745. 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

746. 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

747. 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

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

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

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

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

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

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

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

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

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

757. 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

758. 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

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

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

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

762. 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

763. 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

764. 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

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

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

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

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

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

770. 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

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

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

773. 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

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

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

776. 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

777. 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

778. 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

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

780. 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

781. 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

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

783. 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

784. 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

785. 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

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

787. 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

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

789. 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

790. 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

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

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

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

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

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

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

797. Brake cylinder pressure maximum is ___Kg/Cm2 during backup system (a)
a) 3.8 b) 3.2 c) 2.2 d) 5

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

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

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

801. 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

802. The EM2000 reads main reservoir air pressure from _____ transducer. (d)
a) BPT b)BCT c) ERT d) MRPT

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

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

805. 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

806. 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

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

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

809. 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

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

811. 8^{th} notch engine RPM of WDP4 (c)
a) 1050 b) 1000 c) 954 d) 915

812. Gear ratio of WDP1 is: (a)
a) 18:65 b) 17:77 c) 8:90 d)22:80

813. How many number of batteries are there in WDP4 Locomotive (b)
a) 8 b)10 c) 4 d)6 B

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

815. Maximum rectified output voltage of Auxiliary Alternator is _____volts (a)
a) 74 b) 75 c) 72 d) 70

816. Maximum rectified output voltage of Companion Alternator is_____ volts (b)
a) 250 b) 230 c) 200 d) 110

817. Maximum rectified output voltage of Traction Alternator is_____ volts (d)

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

818. Minimum continuous speed at Maximum tractive effort of WDP4 Locomotive(d)
is __ kmph
a) 15.5 b) 20 c) 10.0 d) 22.5

819. HP of WDP4 Loco motive is _____ HP (a)
a) 4500 b) 3900 c) 3950 d) 3939

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

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

822. _____ 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

823. Current rating of Starting fuse_____ (d)
a) 600 amps b) 1000 amps c) 500 amps d) 800 amps

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

825. If the LR % is_____EM2000 is reducing power output because the engine's capabilities are less than the load being requested. (**b**)

a) less than 200 b) less than 100 c) 100 More than d) 100 less than 500

826. If the TM temperature is greater than _____degree Celsius the inverter will De-rate to keep the traction motor temperature in control (a)
a) 200 b) 100 c) 95 d)92 `

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

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

829. 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

830. Shutting down of all diesel engines in a consist is accomplished ___ relay (c)
a) DMR b) GCR c) SDR d) FLR

831. 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

832. 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

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

834. 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

835. 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

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

837. 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

838. 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

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

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

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

842. 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

843. 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

844. 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

845. 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

846. _____ Number of brake blocks are provided on WDG4 (b)
a) 16 b) 12 d) 32 d) 22

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

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

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

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

851. 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

852. 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

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

854. 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.

855. 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

856. AGFB Stands for (b)

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

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

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

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

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

861. 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

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

863. FP RLY Stands for (d)
a) Fuel Pressure Relay b) Failure Protection Relay
c) Full Pressure Relay d) Fuel Pump Relay

864. GTO Stands for (a)

a)Gate Turn Off Thyrister b) Gate Thyrister off

c) Gate Turn On d)Gate Thyrister On

865. IPR Stands for (d)

a) Inverter Protection Relay b) Insulator Protective Resistor

c) Inverter Protective Rod d) Inverter Protective Resistor

866. MMC Stands for (c)

a) Miss Management Case b) Miscellaneous Management Control

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

867. WDG4D is specially designed for (a)

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

868. WDG4 loco is a (a)

a) Single cab loco b) Dual cab loco

c) Dual cab loco with disc brake d) None

869.Maximum speed of WDG4D loco is ____ KMPH (b)

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

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

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

871. 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

872. 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

873.Length of WDG4D locomotive is ____ meters (a)

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

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

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

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

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

876. HHP locomotive has a (a)

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

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

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

878. EPU fitted on (b)

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

879. No. of radiators fitted in WDP4D loco is (b)

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

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

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

881. Starter motors in HHP loco are (b)

a) AC motors b) DC series motors

c) 3 phase AC motors d) None of the above

882. Starter motors in HHP loco are connected in (b)
a) Series b) parallel c) Series parallel d) None

883. Starter motors used in HHP loco are (b)
a) 32 volts motors b) 64 volts motors
c) 72 volts motors d) None

884. For starting of HHP loco (b)
a) Single electric motor is used
b) Dual electric motor is used
c) Dual air starting motor is used
d) None of the above

885. Rating of starting motor fuse is (b)
a) 400 A b) 800 A c) 500 A d) None

886. Use of starting fuse is (a)
a) Only during engine starting
b) Only during engine running
c) Only during engine shutdown
d) All of the above

887. In Medha control system if starting fuse is removed during running then (d)
a) Engine will shut down
b) Engine will come to Idle
c) TE will comes to zero
d) There will be no effect on engine

888. Purpose of starting fuse is (c)
a) To protect the LV (low voltage) control circuit
b) To protect the HV (High voltage) control circuit
c) To protect starter motors from current overload
d) All of the above

889. No. of teeth in starter motor pinion is (c)
a) 10 b) 15 c) 11 d) None

890. 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

891. 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”

892. Compressor of HHP loco is (a)
a) Mechanical driven b) Electrical motor driven c) Belt driven d) None

893. 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

894. 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

895. 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

896. 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

897. Full form of STA is (b)
a) Starting contactor b) Starting Auxiliary Contactor

c) Starting Relay d) None

898. Full form of ST is (a)
b) Starting contactor b) Starting Auxiliary Contactor
d) Starting Relay d) None

899. During starting which contactor picks up first (b)
a) ST b) STA c) depends on last sequence of pickup d) None

900. 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

901. 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

902. 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

903. Fuel oil primary filter condition gauge having (d)
a) Green zone b) Yellow zone
c) Red zone d) all of the above

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

905. 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

906. 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

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

908. 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

909. 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

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

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

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

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

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

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

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

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

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

919. Maximum speed of WDP4 locomotive is ____ kmph (d)
a) 100 b) 105 c) 120 d) 160

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

921. Delivery rate of soak back pump in HHP engine (b)
a) 27 LPM b) 57 LPM c) 75 LPM d) None

922. Weight of WDG4D locomotive is (d)
a) 126 T b) 123 T c) 121.2 T d) 130.2 T

923. Control system used in HHP locomotive is (d)
a) EMD b) Medha c) Siemens d) all of the above

924. In Medha control system during pre-lubrication TLPM run for (b)
a) 120 sec b) 900 sec c) 2100 sec d) 1000 sec

925. Gear case oil capacity of WDP4D locomotive is (b)
a) 7.5 litres b) 8.5 litres c) 9.5 litres d) 9.8 litres

926. Gear case oil capacity of WDG4D locomotive is (a)
a) 7.5 litres b) 8.5 litres c) 9.5 litres d) 9.8 litres

927. VCD cycle consists of (d)
a) T0 – Vigilance cycle
b) T1 & T2 – Warning cycle
c) T3 & T4 Penalty brake cycle & Penalty brake reset
d) Al of the above

928. T0 – Vigilance cycle is called (a)
a) Vigilance cycle b) Warning cycle
b) Penalty brake cycle d) all of the above

929. T1 – Vigilance cycle is called (b)
a) Vigilance cycle b) Warning cycle
c) Penalty brake cycle d) all of the above

930. T2 – Vigilance cycle is called (c)
b) Vigilance cycle b) Warning cycle
c) Penalty brake cycle d) all of the above

931. T4 – Vigilance cycle is called (c)

c) Vigilance cycle b) Warning cycle

d) Penalty brake reset cycle d) all of the above

932. Duration of T0 cycle is (a)

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

933. Duration of T1 cycle is (b)

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

934. Duration of T3 cycle is (b)

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

935. FPM of HHP locomotive is (c)

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

936. 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

937. 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

938. 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

939. POH of HHP locomotive is done after (d)

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

940. In HHP loco following model Woodward governor is fitted (b)

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

941. Maximum tractive effort of WDP4D locomotive is (b)

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

942. Water temperature maintained in cooling water system of

HHP locomotive is (c)

a) 64° - 90° C b) 65° - 91° C c) 79° - 85° C d) None

943. Full form of EBT is (a)

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

944. Capacity of water tank of HHP locomotive is ____ litres (c)

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

945. Number of positions in L/T switch (c)

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

946. Full form of "EFCO" is (c)

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

947. Control stand of HHP locomotive is called (c)

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

948. 8th notch RPM of WDP4D locomotive is (c)

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

949. Advantage of installation of APU system is (d)

a) Saving fuel oil b) reduce emission
c) reduce noise pollution d) all of the above

950. Number of cells in a battery of WDP4D locomotive (b)

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

951. Number of cells in a battery of WDG4D locomotive (a)

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

952. Before re-cranking engine, wait for minimum ___ minutes
To cool starter motors (c)

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

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

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

955. 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

956. 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

957. Maximum tractive effort of WDG4 locomotive is ____ tons (c)
a) 42 b) 23 c) 53 d) 39

958. 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

959. No. of Traction Inverters in Medha make traction system in HHP loco (c)
a) 2 b) 4 c) 6 d) 8

960. Type of Main Generator fitted in HHP locomotive (c)
a) DC Generator b) single phase AC alternator
c) Three phase AC alternator d) None of the above

961. Type of Traction Motors fitted in HHP locomotive (c)
a) DC series motor b) Single phase AC motor
c) Three phase AC motor d) None of the above

962. Full form of EPD is (c)
a) Engine Position Device b) Engine Parting Device
c) Engine Protection Device d) Engine Patrolling Device

963. In HHP loco Medha control system during dynamic braking, engine raise to ____ notch rpm. (a)
a) 2^{nd} b) 4^{th} c) 6^{th} d) None of the above

964. Series of WDP4D is (c)
a) 12 b) 20 c) 40 d) 70

965. 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

966. Do not switch off _____ circuit breaker immediately after Engine shut down (a)
a) Computer & TLPM b) MAB c) Local control d) None

967. 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

968. Don't try to raise the engine before engine coolant temperature has been reached (b)
a) 42° b) 52 c) 62° d) 72°

969. Purging cycle of air dryer is (c)
a) 15 ÷ 1 sec b) 30 ÷ 1 sec c) 60 ÷ 1 sec d) None

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

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

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

973. Maximum speed of WDP4d loco is ___kmph (c)
a) 100 b 120 c) 135 d) 160

974. In HHP loco auxiliary generator rotate at (b)
a) 2 times of the engine speed b) 3 times of the engine speed
c) 5 times of the engine speed d) None of the above

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

976. 4th notch engine rpm WDP4D locomotive is (c)
a) 269 b) 486 c) 572 d) 675

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

978. 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

979. Soak back filter is fitted (b)
a) before soak back pump b) after soak back pump
c) 'a' or 'b' d) None of the above

980. "TRI-NETRA" is a project related to (c)
a) Introduction of CCTV camera in Railway platform to monitor passenger activity
b) Introduction of CCTV camera in Diesel Loco shed to monitor workmen activity
c) Terrain imaging for locomotive driver
d) All of the above

981. No. of poles in HHP locomotive Traction Motor (a)
a) 4 b) 6 c) 10 d) None of the above

982. 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

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

984. Which of the following changes are done during conversion from 4000 HP to 4500 HP (d)
a) 54" Radiator fan is introduced instead of 52" radiator fan
b) 8th notch engine rpm is increased from 904 rpm to 954 rpm
c) OSTA tripping rpm is increased from 1035 to 1085
d) All of the above

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

986. 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

987. 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

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

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

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

991. 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

992. Gear case joint curing time is (a)
a) 24 hours b) 36 hours c) 48 hours d) None of the above

993. 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

994. 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

995. 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

996. 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

997. SFC of locomotive depends upon (d)
a) engine performance b) controlling of loco pilot
c) condition of carriage & wagon d) all of the above

998. 1st notch TE of WDP4D locomotive is (a)
a) 35 KN b) 50 KN c) 15 KN d) 25 KN

999. Weight of WDP4D locomotive is (b)
a) 126 T b) 123 T c) 121.2 T d) 117 T

1000. No. of batteries in WDP4D locomotive (c)
a) 2 b) 8 c) 10 d) None of the above

1001. type of battery used in WDP4/WDP4D locomotive is (b)
a) Lead acid battery b) Nickel cadmium (NiCd) battery
c) Nickel Metal hydride (NiMH) battery d) Lithium Ion (Li-ion)battery

1002. 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

1003. Peak firing pressure of locomotive is (c)
a) 350 psi b) 1150 psi c) 1750 psi d0 3500 psi

1004. 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

1005. 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

1006. 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

1007. In HHP locomotive, oil level capacity of gear case is (b)
a) Same in WDP4 & WDG4 locomotives
b) More in WDP4 loco as compared to WDG4 loco
c) More in WDG4 loco as compared to WDP4 loco
d) None of the above

1008. RPM of governor drive gear is same as (a)
a) Crank shaft rpm b) Main lube oil pump rpm
c) Water pump rpm d) None of the above

1009. No. of ETPs fitted inn HHP locomotive (b)
a) 1 b) 2 c) 3 d) 4

1010. 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) All of the above

1011. In 710 G3B engine maximum permissible temperature difference (b)
between lube oil and water is
a) 10°C b) 11.1°C c) 16°C d) None of the above

1012.Standard range of PH value of corrosion inhibitor in HHP loco coolant (b)
is in between
a) 5.5 to 7.5 b) 7.5 to 10.5 c) 9.5 to 10.5 d) 10.5 to 11.5

1013. 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"

1014. Series of WDG4 is (b)
a) 20 b) 12 & 70 c) 40 d) 70

1015. 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

1016. Axle load of WDG4 Locomotive is (a)
a) 21T b) 20.5T c) 20.25T d) 19.5T

1017. How will you check the working of soak back pamp? (d)
a) After engine shut down & by opening no.1 oil pan hand hole cover
b) After engine shut down & by opening no.8 oil pan hand hole cover
c)After engine shut down & by opening no.9 oil pan hand hole cover
d)After engine shut down & by opening no.16oil pan hand hole cover

1018. No. of teeth in Accessory Drive Gear is (b)
a) 79 b) 113 c) 131 d) 69

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

1020. How many TM blowers are fitted in HHP Locomotive (a)
a) 1 b) 2 c) 3 d) 4

1021. Where is the battery knife switch located in HHP Locomotive? (a)
a) on left side platform near clean air compartment
b) on right side platform near clean air compartment
c) on right side platform hand brake
d) None of the above

1022. No. of teeth in Auxiliary Generator Drive Gear is (d)
a) 80 b) 37 c) 64 d) 26

1023. Don't shift the ISOLATION Switch to run position immediately after engine start, (a)
otherwise Engine will shut down due to
a)EPD low water button & LLOB operation. b) EPD crankcase button & LLOB operation
c)Only LLOB operation. d) None of the above

1024. 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

1025. Gap between TM blower intake ring and blower wheel on both sides of wheel (b)
assembly i.e.MA/TM is
a) 2.5 to 5 mm b) 3.5 to 5mm c) 4.5 to 5mm d) none of the above

1026.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

1027. 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

1028. 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

1029. 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

1030. Series of WDP4B is (c)
a)12 b)20 c)40 d)7

1031.WDG4DD is a (c)

a)single cab loco b) Duel cab loco

c) Duel cab loco with disc brake d) Duel cab loco with Hotel load

1032. 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

1033. In HHP MU, loading & unloading of compressor of both loco is synchronized by (c)

a) MVCC of leading loco b) MVCC of trailing loco

c) CMPSYN d) None of the above

1034. 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

1035.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

1036. 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

1037. In which schedule height is cattle guard & rail guard is measure and recoded? (b)

a) T-30 & above b) T-90 & above c) T-180 & above d) 3Yeatly & above

1038.Which oil is filled in HHP loco gear case (a)

a) RR460 b) SP100 c)RR606 d) SP57

1039. How many magnetic poles are in radiator fan when run in full speed? (a)

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

1040. During engine starting starter motor rotate (d)

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

1041. MP.MISC-285is related to (a)

a) Schedule of standard examination of HHP Locomotive

b) Reliability and quality issues of Power Assembly

c) TSC fitment and matching procedure

d) Commissioning Schedule of HHP Locomotive

1042. 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

1043. Normal horsepower of WDP4D locomotives traction motor is (a)
a) 855hp b) 924hp c) 1025hp d) None of the above

1044. Maximum starting tractive effort of WDP4D locomotive is (a)
a) 400kn b) 540kn c) 900km d) None of the above

1045. Which of the following component are recently fitted in HHP Locomotive (d)
a) APU b) MCBG c) CREDI d) All of the above

1046. 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

1047. Epicyclic gear trains are used in HHP Locomotive TSC. Advantage of Epicyeclic (a)
gear trains is to
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

1048. 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

1049. 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.

1050. Maximum speed of WDP4D Locomotive (b)
a) 105kmph b) 165kmph c) 140kmphd) 160kmph

1051. Maximum speed of WDG4 Locomotive is (a)
a) 100kmph b) 105kmph c) 135kmph d) 160kmph

1052. How many blades are in Radiator cooling fan? (b)
a) 6 b) 8 c) 10 d) None of the above

1053. Condition for radar blow down magnet valve operation is (d)
a) Diesel engine should be in running condition
b) The reverser handle should not be in neutral position
c) The LOCAL CONTROL circuit breaker should be in closed condition

d) All of the above

1054. Radar is fitted at (b)
a) Under truck at loco left side b) Under truck at loco right side
c) Under truck at engine right side d) None of the above

1055. What is the starting sequence of radiator fan? (d)
a) Both fan will pick up at slow speed with interval of 20 seconds
b) 1st fan will pick up at full speed with interval of 20 second of last
c) 2nd fan will pick up at full speed with interval of 20 second of last pick up
d) All of the above

1056. In MEDHA control system Radiator fan drop at (b)
a) Below 73°c b) Below 79°c c) Above 85°c d) 96°c

1057. 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

1058. 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

1059. 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

1060. 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

1061. Specific gravity of fully charged battery of WDG4D locomotive is (d)
a) 1.1 b) 1.15 c) 1.17 d) 1.25

1062. 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

1063. 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

1064. There are how many batteries are fitted in WDG4D Locomotive? (b)
a) 2 b) 8 c) 10 d) none of the above

1065. Aux. generator drive shaft coupler is renew during (c)
a) Yearly Schedule b) 2 Yearly Schedule
c) 3 Yearly Schedule d) 6 Yearly Schedule

1066. Which solenoid valve is energizes during idle speed (d)
a) A b) A,C c) A,D d) None of the above

1067. 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

1068. How many poles are in main alternator (TA 17) ? (c)
a) 6pole b) 8pole c) 10pole d) 16pole

1069. In MEDHA control system hot engine alarm come at (d)
a) 73°c b) 79°c c) 85°c d) 96°c

1070. Atmospheric pressure is measured by (b)
a) Manometer b) Barometer c) Hydrometer d) Pyrometer

1071. Radiator fan rpm is measured by (a)
a) Stroboscope b) Vibration meter c) Decibel meter d) Pyrometer

1072. 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

1073. In HHP locomotive Blended Brake cut out switch is located in (a)
a) Engine control panel b) Nose compartment
c) ECC2 d) ECC3

1074. Engine model in HHP locomotive is (b)
a) 710G3B b) Gt46 MAC c) GT 46 PAC d) None of the above

1075. 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

1076. In WDG4D locomotive EEC4 is located in (b)
a) Cab 1 b) Cab 2 c) Under truck d) near compressor room

1077. 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

1078.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

1079. In WDG4D locomotive PERCOS is provided on (c)
a) 16 CP b) 20 CP c) ERCP d) BP CP

1080. Out of which safety device engine comes to Idle (d)
a) OST b) EPD c) HOD d) PCS

1081. 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

1082. 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

1083. 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

1084. TPU is fitted on (b)
a) Harmonic damper b) TSC c) Main Alternator d) Companion alternator

1085. In HHP locomotive bail off ring is used for (a)
a) VCD acknowledge b) to release train brake
c) to apply train brake d) None of the above

1086. Type of governor available in HHP locomotive (d)
a) Woodward governor b) MCBG c) EH governor d) both a & b

1087. 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

1088. 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

1089. Weight of WDG4 locomotive is (a)
a) 126T b) 123T c) 121.2 T d) 117 T

1090. 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

1091. 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

1092. VCD alarm sound during (c)
a) T0 cycle b) T1 cycle c) T2 cycle d) T3 cycle

1093. In which VCD cycle, yellow flashing light will glow (d)
a) T1 cycle b) T2 cycle c) T3 cycle d) All of the above

1094. 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

1095. Length of radiator cooling fan blade is (a)
a) 52" b) 48" c) 23" d) None of the above

1096. Length of WDP4B locomotive is (b)
a) 22.98 meters b) 21.24 meters c) 21.7 meters d) None of the above

1097. 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

1098. To measure the speed of HHP locomotive ____ is used (c)
a) Axle generator b) Pulse generator c) Radar d) None of the above

1099. In HHP locomotive to create crankcase vacuum _____ fitted (a)
a) Oil separator & Eductor tube is fitted
b) CCM
c) Exhauster
d) all of the above

1100. How many ETP are fitted in HHP locomotive (b)
a) 1 b) 2 c) 3 d) 4

1101. 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

1102. Coolant water capacity in HHP locomotive (c)
a)1000 b) 1100 c) 1045 d) 1145

1103. Normal TSC rpm of 4500 hp HHP Locomotive is (b)
a) 15000-20000rpm b) 18500-21500rpm
c) 18500-25000rpm d) 18500-20000rpm

1104. Minimum TSC rpm of 4500 hp HHP Locomotive at full load is (b)
a) 1500rpm b) 15932rpm c) 18400rpm d) 018400prm

1105. Scavenging lube oil pump minimum pressure at 8notch is (a)

a) 1.4kg/cm2 b) 4.5kg/cm2 c) 5.2kg/cm2 d) 7.0kg/cm2

1106. Normal air box pressure (BAP) in HHP Locomotive at full speed & full load is (c)

a) 1.1kg/cm2-1.75kg/cm2 b) 1.5kg/cm2-1.95kg/cm2

c) 1.4kg/cm2-1.75kg/cm2 d) 1.4kg/cm2-1.50kg/cm2

1107. In HHP Locomotive normal lube oil inlet Temperature is (a)

a) 70-90^{o}c b) 70-80^{o}c c) 80-90^{o}c d) 80-99^{o}c

1108) During 4th notch _____ solenoid will pick up (d)

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

1109) In HHP loco FCF2A is located in _____ Panel (c)

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

1110) 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

1111) Function of VRR is to control_____. (c)

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

1112) GF contactor is used in _____ circuit (b)

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

1113) Loco hot engine alarm will come if engine temperature reaches ___^{o}C (c)

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

1114) _____ contactor is used in TCC input side (c)

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

1115) In HHP loco, Radiator Fan is getting power supply from _____ (d)

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

1116) _____ Contactors are available in ECC2. (b)

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

1117) In HHP loco pilot exciter is available in _____ machine (c)

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

1118) Maximum HP of WDP_{4D} loco is _____. (b)

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

1119) Twin beam headlight bulb is having ____ filaments (b)

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

1120) Output of PSM 305 card is _____ Volts. (a)

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

1121) Transition picks up at _____ kmph in WDG3A loco. (a)

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

1122) Siemens HHP loco has _____ number of TCC. (b)
a) 1 b) 2 c) 6 d) 3

1123) PRS unit is available in _____governor (c)
a) GE b) WOODWARD c) MCB d)NS16

1124) In HHP loco Battery Charging Assembly is located in _____ Panel (b)
a) ECC1 b) ECC2 c) ECC3 d) Breaker

1125) 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

1126) In HHP loco, Function of DVR is to control (c)
a) Main generator b) Engine RPM c) AG output d) CA output

1127) FCF2A contactor is used in _____ circuit (c)
a)TCC blower b) Filter blower c) Radiator fand) FPM

1128) If MFPB trips on RUN engine will _____ (b)
a) Idle b) shutdown c) over shoot d) none

1129) In HHP loco, the normal maximum DC Link voltage is _____. (d)
a)600 b) 2000 c) 2500 d) 2600

1130) In HHP loco, TCC Blower is getting power supply from_____. (d)
a) ECC1 b) ECC2 c) TA d) CA

1131) _____Breaker is yellow labelled. (b)
a) Air brake b) computer c) TA d) CA

1132) Medha HHP loco has _____ number of Traction computers (c)
a) 1 b) 2 c) 6 d) 3

1133) Actuator unit is available in _____governor (c)
a) GE b) WOODWARD c) MCBG d)NS16

1134) In HHP loco auxiliary output side 250 Amps breaker is located in _____(b)
a) ECC1 b) ECC2 c) ECC3 d) Breaker Panel

1135) FCS contactor is used in _____ circuit (c)
a) TCC blower b) Filter blower c) Radiator fand) FPM

1136) In HHP loco _____ sensor measures Turbo RPM. (a)
a) TPU b) EPU c) MPU d) BAP

1137) The number of IGBT modules in EMD HHP Loco is _____. (c)
a) 1 b) 2 c) 6 d) 3

1138) In HHP loco MRPT is available in_____ compartment. (c)
a) ECC1 b) ECC2 c) ECC3 d) Breaker Panel

1139) 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

1140) No of brush arms in 4907 TM is_____ (d)
a) 1 b) 2 c) 6 d) 4

1141) No. of batteries in WDP4D loco is _____ (b)
a) 8 b) 10 c) 6 d) 4

1142) Total HP of auxiliaries in WDG3A loco is _____ (a)
a) 207 b) 186 c) 200 d) 250

1143) Position of LCR in Woodward governor for maximum excitation is_____ (a)
a) 5.30 b) 6.30 c) 11 d) 3

1144) Power deration starts if TANGI current above _____mA. (a)
a) 400 b) 500 c) 800 d) 700

1145) During 2nd notch _____ solenoid will pickup. (a)
a) A_V b) B_V c) Cv d) A_V, Bv & C_V

1146) Rating of starting fan fuse in HHP loco is ____ Amps (d)
a) 800 b) 400 c) 200 d) 300

1147) Pre lubrication will work for _____ minutes in HHP loco. (d)
a) 30 b) 20 c) 10 d) 15

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

1149) In MEP loco _____ is used to sense power ground (c)
a) GR1 b) GR2 c) TANGI d) BANGI

1150) 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

1151) Operating air pressure of BKT/REV is (b)
a) 6 Kg / cm^2 b) 5 Kg / cm^2 c) 8 Kg/ cm^2 d) 10 Kg/ cm^2

1152) In ALCO loco Wheel slip fault will be declared if difference between TM RPM (a)
exceeds___,
a)15 b)125 c) 10 d) 25

1153) AG is controlled by _____ in EMD loco (c)
a) FCF b) PSM c) DVR d) PRG

1154) Blended brake is available in _____ loco (d)
a) WDM3A b)WDG3A c)WDM3D d) WDP4

1155) Flasher Light will work if _____ pressure switch alone drops. (a)
a) P2 b) P1 c) PCS2 d) VCD

1156) In AC-DC loco, CK2 is connected to _____ machine (a)
a) AG b) EG c) TG d) TA

1157) In AC-DC loco, CK1 is connected to _____ machine (b)
a) AG b) EG c) TG d) TA

1158) _____ gear is provided in Tacho generator. (a)
a) Nylon b) stainless c) cast iron d) Rubber

1159) In HHP loco, TPU sensor measures _____ (a)
a) Turbo RPM b) Engine RPM c) TM RPM d) CA RPM

1160) No. of brushes in HHP loco EMD Traction alternator is_____ (d)
a) 2 b) 4 c) 8 d) 6

1161) After application of A9 auto flasher will not work for _____ seconds (a)
a) 60 b) 30 c) 90 d) 10

1162) During continuous supply to EPG, MR pressure_____ (a)
a) drop b) buildup c) maintain normal d) leaks

1163) _____ Button is to be pressed to avoid conjunction brake (a)
a) Quick releaseb) VCD c) AFL Reset d) Release/Run

1164) _____ relay operates EPG in MEP loco (a)
a) CMR b) DCR c) MVR d) RT5X

1165) _____ relay operates EPG in MEP loco (c)
a) CMR b) DCR c) MVR d) RT5X

1166) _____ is used in between TM commutator segments (c)
a) porcelain b) copper c) Mica d) Rubber

1167) In MEP loco engine RPM is measured by_____ (a)
(a) ESS (b)Tacho (c) TPU sensor (d)none of above

1168) In Alternator R-Y-B coils are in (b)
a) Rotor b) Stator c) Armature d) None

1169) 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

1170) Total no. of batteries in WDG4 loco is_____ (b)
a) 10 b) 8 c) 12 d) 6

1171) Reverse bias in diode means connecting (b)
a) +ve to anode b) –ve to anode c) -ve to cathode d) None

1172) Rating of MB1 is _____ Amps (b)
a) 150 b) 200 c) 250 d) 15

1173) Output of headlight DC-DC converter is _____ (c)
a) 72V DC b) 72V AC c) 24V DC d) 24 V AC

1174) In MEDHA VER.3 WDG3A loco, LAM gets supply from _____ (c)
a) TM current b) LAM Shunt c) MEP- output d) TG

1175) In HHP loco_____valve controls MR cutin/ cutout (a)
a) MVCC b) EPG c) EBT d) RT5X

1176) In ALCO loco, if _____ relay drops then auto flasher will work. (c)
a) DMR b) VCDR c) AFLR d) FLSHR

1177) The number of DC Link Breaker in Medha Loco is _____. (d)
a) 2 b) 4 c) 8 d) 6

1178) BKBL is getting power from _____ (d)
a) TG b) TA c) EG d) TM

1179) STA is available in_____ (b)
a) ECC1 b) ECC2 c) ECC3 d) Breaker Panel

1180) Specific gravity lead acid battery at the end of charging cycle is_____ (a)
a) 1.245 b) 1.210 c) 1.220 d) 1.200

1181) No of brush arms in BHEL Traction Generator is_____ (a)
a) 10 b) 6 c) 8 d) 12

1182) NLV of WDG_{3A} loco is _____ volt. (c)
a) 750 b) 1000 c) 1100 d) 1050

1183) Total HP of auxiliaries load in WDM2 loco is _____ (a)
a)186 b) 207 c) 200 d) 250

1184) Position of LCR in Woodward governor for minimum excitation is _____ (b)
a) 5.30 b) 6.30 c) 11 d) 3

1185) Low idle RPM of 4500 HP loco is _____. (a)
a)200 b) 260 c) 400 d) 450

1186) 8^{th} notch RPM of 4500 HP loco is _____. (a)
a) 960 b) 900 c) 1000 d) 1050

1187) Low idle RPM of WDG_{3A} loco is _____. (a)
a)350 b) 260 c) 400 d) 450

1188) 8^{th} notch RPM of WDG_{3A} loco is _____. (a)
a) 1050 b) 900 c) 1000 d) 110

1189) During 8^{th} notch _____ solenoid will pickup. (d)
a) A_V b) B_V c) A_V & Bv d) A_V, Bv & C_V

1190) In HHP loco if EPD is tripped engine will _____. (b)
a)shutdown without message b) shutdown with message
c) idle with message d) idle without message

1191) Rating of radiator fan breaker rating in HHP loco is ____ Amps (b)
a) 800 b) 400 c) 200 d) 300

1192) Before cranking, Pre lubrication will work for _____ minute in ALCO loco.(d)
a) 30 b) 20 c) 60 d) 1

1193) In MEP loco _____ is used to sense control ground (d)
a) GR1 b) GR2 c) TANGI d) BANGI

1194) In HHP loco _____ relay controls auto flasher (c)
a) AFLR b) DMR c) FLSHR d) ERR

1195) In HHP loco _____ relay drops auto flasher will work (c)
a) AFLR b) FLSHR c) PCR d) ERR

1196) In HHP loco _____ controls excitation (c)
a) AFLR b) FLSHR c) SCR d) ERR

1197) Operating air pressure of electro pneumatic contactor is (b)
a) 6 Kg/ cm^2 b) 5 Kg/ cm^2 c) 8 Kg/ cm^2 d) 10 Kg/ cm^2

1198) Battery capacity of WDP4D loco is_____ (b)
a)500 Ah b)150Ah c) 450 A d) 250 Ah

1199) For HP calculation in ALCO locos 1 HP is equal to _____ Kw (a)
a) 746 b) 735 c) 550 d) 476

1200) Total No. of slip rings in HHP loco main generator is (c)
a) 2 b) 8 c) 4 d) 6

1201) Long term memory will be recorded in a time interval of _____ sec. (b)
a) 10 Sec b) 20 Sec c) 2 Sec d) Each Sec

1202) In WDM2 loco, LAM gets supply from _____ (b)
a) TM current b) LAM Shunt c) MEP- output d) TG

1203) 253 card is called as _____ (a)
a) Oscillator b) PWM c) FG d)PWM

1204) HHP loco CA output is _____ (c)
a) constant DC b) constant AC c) Varying AC d) Varying DC

1205) Radar is fixed at an angle of _____ degrees (a)
a) 37.5 b) 90 c) 48.5 d) 26.5

1206) During DB _____ valve will energize to avoid conjunction brake. (c)
a) BKR b) BKT c) BKIV d) Release/Run

1207) Type of TM speed sensor used in MEP Ver.2 loco is _____. (b)
a) T.818 b) T.815 c) RDB d) ADB

1208) After shutdown, Post lubrication will work for _____ minutes in HHP loco. (d)
a) 30 b) 20 c) 10 d) 15

1209) In MEP loco _____ is used to measure alternator output current (a)
a) TAAI b) TA.V c) ACCR d) EXAI

1210) In HHP loco _____ relay controls air dryer (c)
a) AFLR b) DMR c) DCR d) MVR

1211) DMR picks up if BP pressure is _____ kg/cm^2 . (a)
a) >4.2 b) >2.8 c) >4.5 d) Between 4 to 5

1212) DMR drops if BP pressure is _____ kg/cm^2 . (b)
a) <4.2 b) <2.8 c) >4.5 d) Between 4 to 5

1213) Wheel slip will occur if difference between TM-current exceeds_____ Amps (a)
a) 125 b) 25 c) 15 d) 75

1214) For changing direction of rotation in Traction motor_____ is to be changed (b)
a) incoming supply b) field supply
c) both field & armature d) None (c)

1215) Exciter generator field is controlled through_____
a) VRR b) AGFB c) Excitation cards d) GF

1216) In Excitation cards, _____ card controls TG voltage. (a)
a) 292 b) 210 c) 186 d) 188

1217) Total no. of cards in Excitation Panel is_____ (b)
a) 6 b) 7 c) 8 d) 3

1218) AG output to be maintained at _____ Volts (b)
a) 64 b) 72 c) 24 d) 110

1219) 188 card is for _____ (a)
a) PWM b) EFT c) Oscillator d) Mixer Reference

1220) EPG is operated _____ type pressure switch. (c)
a)RT116 b) RT200BX c)RT5BX (d)None.

1221) Function of release /Run button---------- (c)
(a) To stop auto flasher (b) To isolate conjunction brake.
(c) Quick charging of BP. (d) To start engine.

1222) TM6 is connected to _____ grid cable (b)
a) R1 b) R14 c) R21 d) R11

1223) If EPG COC is in closed condition MR _____ (c)
a) will not buildup b) work normal
c) safety valve blow d) BP pressure drop

1224) In HHP loco throttle will not respond if _____ relay not picked up. (b)
a) DMR b) PCR c) FPR d) TLPR

1225) In ALCO loco throttle will not respond if _____ relay not picked up. (a)
a) DMR b) PCR c) FPR d) TLPR

1226) _____ is used to control EG output in E type. (a)
a) EFT b) ECP c) VRR d) TRP

1227) _____ is used to give supply to field in alternators (c)
a) Commutator b) Terminal c) Slip ring d) Bolt & Nut

1228) During Battery charging electrolyte temperature should not cross_____ (c)
a) 35^{o}C b) 45^{o}C c) 55^{o}C d) 60^{o}C

1229) MFPB breaker is available in _____ (c)
a) SH control stand b) LH control stand
c) LH & SH control stand d) ECP

1230) Voltage is measured using (a)
a) voltmeter b) Ammeter c) Clampmeterd) Megger

1231) Traction Motor is a _____ machine in ALCO loco (a)
a) DC Series b) DC Shunt c) AC d) DC Compound

1232) Ohmic value of field is measured using (a)
a) Milli ohm meter b) Voltmeter c) Megger d) Ammeter

1233) Megger is used to measure value of _____ (c)
a) Current b) Voltage c) Insulation d) All

1234) Condemn size of brush in TG is_____ mm (c)
a) 50-55 b) 30-35 c) 22-25 d) 40-45

1235) No of brush Arm in TG is _____ (a)
a) 10 b) 8 c) 12 d) 15

1236) Total no. of brushes in TG is _____ (b)
a) 40 b) 60 c) 56 d) 30

1237) No slip rings in ALCO Traction Alternator is (b)
a) 4 b) 2 c) 1 d) No slip ring

1238) In ALCO loco MR pressure is to be maintained between _____kg/cm2 (b)
a) 9-10 b) 8-10 c) 9-11 d) at 10

1239) Dry run button is available in (b)
a) Breaker Panel b)MCBG Control Unit
c) Control Stand d) Nose comp

1240) 24V DC / DC convertor is for _____ light (b)
a) Doom b) Head c) classification d) Control stand

1241) ADA supplies current signals to _____ (b)
a) VRP b) TRP c) EXCP d) FCP

1242) Battery ammeter will show 'Zero' when _____ breaker of tripped. (a)
a) MB1 b) MB2 c) AGFP d) MFPB

1243) BKBL gets supply from the _____ (c)
a) batteries b) auxiliary generator c) grids d) MG

1244) During D.B in engine RPM raises to _____ notch in ALCO (c)
a) 2nd b) 3rd c) 4th d) 5th

1245) During DB _____&_____ EPPC will not pick up (WDM2) (c)
a) P1&P21 b) P2&P21 c) P2&P22 d) P1&P31

1246) EPPC P22 connects _____ TM in parallel (c)
a) 1 b) 2 c) 3 d) 4

1247) FS contactors are located at _____ (WDM2) (a)
a) Back panel b) Control compartment
c) control stand d) Nose compartment

1248) For manual transition _____emergency switch to be ON (d)
a) GFS b) LWS c) PCS d) TR

1249) Which of these are not found in Medha Recording & indicating system (d)
a)Recorder b)Pulse generator c)Indicator d) Signal converter

1250) Pulse generator is always mounted at..... (a)
a)Loco R-1/2 Axle box cover plate b)Loco L-1/2 Axle box cover plate
c)Driven cabin d)Expansion Tank

1251) 187 card is available in _____ panel. (a)
a)EXCP b)ECP c)TRP d) MEP

1252) The total no. of carbon brushes used in Traction Alternator are (c)
a)10 b) 6 c)4 d) 8

1253) BX card is available in _____ panel. (d)
a)EXCP b)ECP c)TRP d) VRP

1254) In WDP_2 locomotive output of Traction Alternator at 400 rpm is (a)

a)120 HP b)160 HP c)140 HP d)200 HP

1255) The carbon brush grade used in Traction Alternator type 10102 DW is…(a)

a)HM6 b)EGO c) EG14D d) EG225

1256) Normal Battery charging current in WDM2 loco is _____Amp. (a)

a)10 b)60 c)100 d)150

1257) The Auxiliary Machine type 3101 AY and 3101 AY1 are (a)

a)Interchangeable b) Non interchangeable

c) Fitted in WDM4 d)Fitted in WDS4

1258) No. of main poles in Auxiliary Generator type 3101 AY1 are (b)

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

1259) The direction of rotation of Auxiliary M/Cs type 3101 AY1 is (a)

a)CCW from commutator end b)CW from commutator end

c) CCW from pinion end d) CW from pinion end

1260) While running If FPB trips, Engine comes to _____ (a)

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

1261) Battery is discharging, due to _____ trips. (a)

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

1262) The total nos. of main pole in Auxiliary Machine type AG-51 are (d)

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

1263) The brush grade used in Auxiliary Machine type 3101 AY is (a)

a)EG 251 b)EG14D c)HM6 d)EGO

1264) Gear ratio of Eddy current clutch gear unit (Right angle gear box) is(a)

a)1:1.312 b)1:1.321 c)1:1.231 d)1:1.213

1265) The continuous rating of ECC (Eddy current clutch) is (KW, RPM)… (a)

a)60KW, 1000 rpm b)60KW, 1200 rpm

c) 80KW, 1000 rpm d)80KW, 1200 rpm

1266) The nominal air gap between inner and outer drum of ECC (Eddy current clutch) is (a)

a)0.8 to 1.2mm b) 1.9mm to 2 mm

c)2mm to 3 mm d)9mm to 4mm

1267) The brush grade used in Auxiliary Machine type 3101 AY is (a)

a)EG 251 b)EG14D c)HM6 d)EGO

1268) Gear ratio of Eddy current clutch gear unit (Right angle gear box) is (a)

a)1:1.312 b)1:1.321 c)1:1.231 d)1:1.213

1269) Grad of Carbon brush is _____ in ECC (d)

a)EG 251 b)EG14D c)HM6 d)EGO

1270) Horse power Rating of WDS6 loco _____ HP. (a)

a)1400 b)2600 c)3100 d)4000

1271) In ECC (Eddy current clutch), clutching of inner and outer drum is through(c)

a)Mech. Clutch b)Electrical clutch
c)Magnetic clutch d)By pulley arrangement

1272) The brush grade used in Traction Generator is (a)
a)EG 55 b)EG225 c)EG14D d)EGO

1273) Breaking blower (BKBL) motor have total numbers of inter poles (a)
a)4 b)6 c)8 d)10

1274) TS-2 is set at temp. Degree centigrade (b)
a)64 ^{0}C b)74 ^{0}C c)90 ^{0}C d)86 ^{0}C

1275) Clearance between brush holder and slip ring of Traction Alternator type 10106 AZ is (a)
a) 2 to 3 mm
b) 3 to 4 mm
c) 4 to 5 mm
d) 1 to 2 mm

1276) The bearing used in rotor of Traction Alternator type 10106 AZ is (a)
a) NU 330
b) NH 330
c) NU314
d) NH 300 EM/C4

1277) Gearbox oil capacity of Traction Alternator type 10106 AZ (In WDP1 loco) is (b)
a) 1 Lts.
b) 2.6 Lts.
c) 4 Lts.
d) 5 lts.

1278) Total numbers of carbon brushes used in BKBL/Grid blower motors are (c)
a) 12
b) 24
c) 8
d) 6

1279) The brush grade used in T/M type 5002 AZ is…… (a)
a) EG14D
b) EG15D
c) EG225
d) EG55

1280) How many poles are in rotor winding of traction Alternator type 10106 AZ (a)
a) 10 poles
b) 8 poles
c) 12 poles
d) 6 pole

1281) The stator winding of Traction Alternator type 10106 AZ (In WDP1 loco) is

connected as (c)

a) Star connected b)Delta Connected
b) Star connected with two parallel path per phase
c) Delta connected with two parallel path per phase

1282) Tacho-generator have total numbers of magnetic poles

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

1283) The brush grade used in Traction Alternator type 10106 AZ is (c)

a) EG15
b) EG55
c) HM6
d) EGO

1284) Traction Alternator type 10106 AZ is used in which type of loco (a)

a) WDP1
b) WDM2
c) WDP2
d) WDP4

1285) Total number of brush holder assembly fitted in Traction Alternator are (a)

a) 4
b) 6
c) 9
d) 2

1286) Traction Alternator type 10106 AZ (WDP1) is used up to (RPM, HP) (a)

a)1000rpm, 2000 HP
b)1000rpm,1800HP
c)1000rpm, 2300 HP
d) 1050 rpm, 3150 HP

1287) Total numbers of interlopes fitted in Traction Generator are (a)

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

1288) Tacho generator output voltage is … (c)

a) A/C single phase
b) DC
c) A/C three phase
d) Pulsating DC

1289) Run out of commutator of Traction Gen. After reconditioning I (a)

a) 0.002”
b) 0.005”
c) 0.006”
d) 0.007”

1290) Function generator card is also known as……. (c)

a) 188 card
b) 187 card
c) 293 card
d) 254 card

1291) Traction motor-165 is a …. (a)

a) D.C. Series Motor
b) A.C. Series Motor
c) D.C. Shunt Motor
d) Induction Motor

1292) Main field resistance of TM-165 at 25 ^{o}C in m- ohms (c)

a. 10 m ohm
b. 6.5 m ohm
c. 20 m ohm
d. 30 m ohm

1293) Weight of complete TM-165 with pinion & axle caps is. (c)

a) 3500 kg
b) 2800 kg
c) 3340 kg
d) 3600 kg

1294) Nominal new diameter of Commutator for TM-165 in mm is (a)

a) 422 mm
b) 200 mm
c) 550 mm
d) 500 mm

1295) In bearing NU-300 EM/C4 ; C4 stands for …… (a)

a) Class of Radial clearance
b) Bearing with extra load carrying capacity
c) Machined brass cage
d) Angle ring

1296) Inner diameter of bearing NH 320EM /C4 is (d)

a) 400 mm
b) 200 mm
c) 300 mm
d) 100 mm

1297) TM-165 brush Holder assembly Spring pressure is. (b)

a) 2 kg
b) 4.5 kg
c) 10 kg
d) 12 kg

1298) Which class of insulation is used in TM-165M (d)

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

1299) How many numbers of com poles are fitted in TM-165M (a)

a) 4
b) 5
c) 6
d) 7

1300) What is the condemning dia. size of comm. of Traction Motor type 165M is (diameter in mm) (c)

a) 420 mm
b) 430 mm
c) 390 mm
d) 500 mm

1301) 'K' value of 18 teeth Traction Motor pinion in mm is (a)

a) Max. 88.72 mm to Min.86.99 mm
b) Max. 89.74 mm to Min.87.02 mm
c) Max. 90 mm to Min.88 mm
d) Max. 84.02 mm to Min.82.02 mm

1302) Max. rpm of Traction Motor type 165M is…… (a)

a) 2275 rpm
b) 2375 rpm
c) 2175 RPM
d) 2475 RPM

1303) At which temperature Traction Motor type -165M pinion is mounted on shaft (in degree centigrade) (a)

a) 170ºC above ambient temperature

b) 140ºC above ambient temperature
c) 200ºC above ambient temperature
d) 500ºC above ambient temperature

1304) Traction Motor type -165M pinion never be heated above (c)
a) 100°C b) 150ºC c) 220°C d) 300ºC

1305) Which type of bearing fitted in pinion end of Traction Motor type -165 (b)
a) NU320
b) NU330
c) NU328
d) NU326

1306) Which type of bearing fitted in comm. End of Traction Motor type -165 (c)
a) NU320
b) NU330
c) NH320
d) NI350

1307) Gap between holder assembly and Comm. of Traction Motor type -165M (in mm) is (c)
a) 10mm to 11mm
b) 7mm to 8 mm
c) 1.6 mm to 2.4 mm
d) 4.5 mm to 6.5 mm

1308) New commutator diameter of Traction Motor type 7362 CGL make (in mm) is... (c)
a) 300mm
b) 490mm
c) 380mm
d) 600mm

1309) Minimum usable diameter of Comm. of Traction Motor type 7362 in mm is…. (c)
a) 400mm
b) 600mm
c) 360mm
d) 500mm

1310) What is the brush spring pressure of Traction Motor type 7362 Brush holder (a)
a) 3.0 kg to 3.6 kg
b) 8.0 kg to 9.0 kg
c) 9.0 kg to 10.0 kg
d) 10.0 kg to 11.0 kg

1311) Reference mixer card is also known as …….. (b)

a) 253 card
b) 186 card
c) 188 card
d) 187 card

1312) LCR position on Idle condition in WW Gov. is at „O' clock (c)

a) 11 Hours
b) 12 Hours
c) 17 Hours, 30 minute
d) 15 Hours

1313) LCR position of WW Governor (Clock) on full load HP is (d)

a) 11 Hours
b) 12 Hours
c) 08 Hours
d) 15 Hours

1314) Which solenoids are operate on idle condition in WW Gov. (d)

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

1315) Which solenoid operated when LWS worked in WW Gov. is (c)

a) C Solenoid
b) B Solenoid
c) D Solenoid
d) None

1316) Low lube oil shut down pressure setting in WW governor fitted locomotive. (b)

a) 2.0 Kg/cm^2
b) 1.3 Kg/cm^2
c) 2.5 Kg/cm^2
d) 3.0 Kg/cm^2

1317) On 3^{rd} notch solenoid operated in WW governor (c)

a) D Solenoid
b) A Solenoid
c) C Solenoid
d) A-C Solenoids

1318) In WW Governor which solenoid operated on operation of Low Lube oil plunger. (d)

a) C Solenoid
b) CD Solenoids
c) AD Solenoids
d) None

1319) Traction Motor (make-CGL-Q7362) has total numbers of interpole… (c)

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

1320) Current rating of MB1 circuit breaker in WDM_2 DC/DC loco is (c)

a) 100 Amp
b) 150 Amp
c) 200 Amp
d) 250 Amp

1321) Current rating of MB2 circuit breaker in WDM_2, DC/DC loco is (d)

a) 100 Amp
b) 250 Amp
c) 200 Amp
d) 150 Amp

1322) The higher temperature of the electrolyte in the battery caused life of battery to.. (c)

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

1323) Blowing air pressure in TG/TA is recommended between… (b)

a) 0.2 Kg/cm^2
b) 2 to 4 Kg/cm^2
c) 8 to 10Kg/cm^2
d) Pressure of the blowing air is not specified

1324) Which type of Traction Alternator used in WDG3A loco is ….. (d)

a) TG10931AZ
b) TA10102 CW
c) TA10102 DW

d) TA10102 EV

1325) The function of slip rings in Traction Alternator is (b)

a) Work as commutator
b) Work as a current collector
c) Work for balancing of Tr. Alt. rotor
d) None of the above

1326) Generator field cover load relay operating current limit is.. (c)

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

1327) Head light bulb is rated at voltage… (b)

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

1328) Which is not a safety item in a diesel locomotive? (b)

a) Cattle Guard
b) Dome light
c) LWS
d) F/Light

1329) The function of Field Control Panel in diesel Electric locomotive is. (c)

a) To control the head light voltage
b) To control the battery charging voltage
c) To control the exciter output
d) To control the Tacho Generator voltage

1330) The no load voltage limit of Traction Generator 10931 AZ is at…. (c)

a) 685V
b) 800V
c) 770V
d) 1100V

1331) Total nos. of capacitors used in power rectifier panel of AC/DC locos are……(a)

a) 06
b) 08
c) 12

d) 04

1332) In AC/DC loco time delay relay (TDR) is provided for time delay of (c)

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

1333) The main generator used on WDM_2 diesel locomotive is …… (b)

a) Shunt Generator
b) Separately excited generator
c) Compound generator
d) None of the above

1334) If a supply of wire no.0 or 8 nos. breaks up, what will happen (b)

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

1335) The lubrication of roller bearings in Traction Alternator/ Traction Generator is done by (c)

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

1336) Ovality of Tr. Alternator slip rings is allowed upto (b)

a) 0.010" b).002" c) .005" d) .006"

1337) Current rating of a single diode used in Alternator mounted power rectifier in Amps… (c)

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

1338) Continuous wheel slip is due to defect in (a)

a)WSRR
b)ACCR
c) GDR
d) LAR

1339) Reverse control diode fitted in diesel loco is for ….. (b)

a) Blocking the reserve flow of current to Tr. Gen.
b) Blocking the reserve flow of current to Aux. Gen.
c) Blocking the reserve flow of current to Tacho Gen.
d) Blocking the reserve flow of current to fuel motors

1340) Which relay has lowest value of coil resistance…….. (b)

a) ERR
b) GR
c) ERR
d) ESR-1

1341) On which type of loco thyrite resistor is fitted (b)

a) WDM_2
b) WDM_{3A}
c) WDS_6
d) YDM_4

1342) Welding of FS contactor tips will give the indication of (c)

a) Ground relay operating
b) EP contactor fluctuating
c) Wheel slip on Ist notch onwards
d) GF not picking up

1343) If the reference voltage is more than 24.4 volts, the defects in (a)

a) LCP
b) SP
c) GCR
d) Pilot valve

1344) In MU operation both the loco can be shut down through… (c)

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

1345) The combination of Tr. Motors across WSR-1 in parallel is (a)

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

1346) The combination of Tr. Motors across WSR-3 in parallel is (d)

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

1347) No load voltage is checked on wire No. (b)

a) 34G-36 b)34-36 c) GK-2-GA d) E-36

1348) GCR resistance is a part of ….. (a)

a)ECP b) VRP c) TRP d) EXCP

1349) Reverser Contactor used on diesel loco is …… (a)

a) To change the direction of field
b) To use the Dynamic braking
c) To pass the power supply to T/Motors
d) None of the above

1350) MCOS is used in WDP1 loco in case of trouble (d)

a) Power Ground
b) Wheel Slip
c) EP Contactor fluctuates
d) Power ground or wheel slip operates

1351) During DB traction motors are cooled by _____ (d)

a) FTTM BLOWER b) RTTM BLOWER
c) BKBL d) FTTM &RTTM BLOWERS

1352) No of crowbars fitted in WDG3A Locos (d)

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

1353) Engine speed signal is given by _____ in E type excitation loco (b)

a) ADA b) TACHO GEN c) AUX.GEN d) EX.GEN

1354) Total no traction motors in 4000 HP WDP4 Locos (a)

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

1355) Pinion to bull gear ratio in WDG4 Loco is (b)

a) 17: 77 b) 17:90 c) 18:77 d) 18: 90

1356) Pinion to bull gear ratio in WDP4 Loco is (a)

a) 17: 77 b) 17:90 c) 18:77 d) 18: 90

1357) In WDM2 LOCO MB2 trips, engine comes to --------
(b)

a) Idle b) shut down c) isolate d) none

1358) _____No. of power contactor in WDS6 loco. (a)

a) 9 b) 6 c) 3 d) 12

1359) 24V DC / DC convertor is for_____ light
(b)

a) Doom b) Head c) classification d) Control stand

1360) 2nd transition take place from _____ combination (WDM2) (c)

a) sp to p b) sp to sp + shunt
c) sp + shunt to p d) p to p + shunt

1361) 2nd transition takes place at _____ KMPH (WDM2) (d)

a) 30 b) 60 c) 80 d) 48

1362) 3 field loco has _____ No. of operating coils in WSR (WDS6) (b)

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

1363) 492, 493 cards available in _____ panel (c)

a) TRP b) VRP c) EXCP d) FCP

1364) ABC relay is available in _____ loco. (d)

a) WDM3D MEDHA b) WDM2 c) WDS6 d) WDM3D GETS

1365) ADA is a _____ phase AC machine (a)
a) 1 b) 2 c) 3 d) NONE

1366) ADA supplies current signals to _____ (b)
a) VRP b) TRP c) EXCP d) FCP

1367) AGFB trips _____ lamp glow (c)
a) ESLP b) CSLP c) BDIL d) OVER LOAD

1368) Alternator has _____ No. of slip rings (b)
a) 1 b) 2 c) 3 d) 4

1369) At 80 KMPH WDM2 loco _____ transition will pick up (d)
a) sp to p b) sp to sp + shunt c) sp + shunt to p d) p to p + shunt

1370) Aux. Gen. Voltage of WDM3A loco is _____ (c)
a) 68 b) 70 c) 72 ± 1 V d) 72 ± 1 A

1371) AV, BV, CV solenoids energise in _____ notch (d)
a) 2 b) 4 c) 6 d) 8

1372) Battery ammeter will show 'O' when _____ breaker of tripped. (a)
a) MB1 b) MB2 c) AGFP d) MFPB

1373) Battery capacity is _____ AH (WDM2) (b)
a) 290 b) 500 c) 450 d) 600

1374) Battery charging current can be noted in _____ WDM3D (GE) (a)
a) BCA b) DID c) DU d) NONE

1375) BDIL glowing indicates batteries _____ (c)
a) over charging b) no charging c) discharging d) none

1376) Before checking battery charging _____ & _____ to be ensured (b)
a) BS & MB1 b) BS & MB2 c) MB1 & AGFP d) MB2 & MFB

1377) Before switching ON GF emergency switch _____ to be ensured (c)
a) FPC b) FSC c) CK1 & CK2 d) R1 & R2

1378) BKBL gets supply from the _____ (c)
a) batteries b) auxiliary generator c) grids d) MG

1379) BL box is available in _____ loco (d)
a) WDM2 b) WDM3D c) WDS6 d) WDP3A

1380) BS is located in _____ in WDM3A (b)
a) Control compartment b) nose compartment
c) gen. room d) under truck

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