

**QUESTION BANK FOR DDI/STI (ELECTRICAL) AT DTTC GTL**

**Multiple Choice sample Question Bank 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) Woodward      d) None

- 11) Eddy current clutch is located in ( d )  
 a) Nose compartment b) Control compartment  
 c) Expresser room d) Radiator room
- 12) ERF should be put ON when ( d )  
 a) ECC is defective b) R1 & R2 defective  
 c) TS-1&TS-2 Defective d) Both b and c
- 13) If radiator fan is not working during continuous hot engine alarm switch ON ( a )  
 a) ERF b) LWS c) DMR d) TR
- 14) S21 contactor is connected between TM Nos. ( a )  
 a) 3&6 b) 1&4 c) 2&5 d) 3&5
- 15) In WW Governor loco if tacho generator is defective ( b )  
 a)throttle will not respond b)Load meter will not respond  
 c)Both a and b d)Engine will shut down
- 16) During M.U. operation if trailing loco GR-1 trips on run, ( c )  
 the indication in leading loco  
 a)GR-1 knob projects out b)Bell will ring along with white bulb glowing  
 c)Load meter will overshoot with alarm bell ringing d)Engine will shut down
- 17) Continuous working in restricted zone will cause ( b )  
 a) continuous wheel slip b) Power ground  
 c) Hot engine alarm d) Engine shut down
- 18) In Medha Microprocessor version III loco Low hauling power will be  
 experienced when ( c )  
 a) TE limit switch is enabled. b) Rectifier fuse blown out  
 c) Both a & b. d) Power setter switch enabled.
- 19) In Medha microprocessor loco when one TM is isolated, loco will ( a )  
 a) start with Series parallel combination b) start with Parallel combination  
 c)start with Parallel with shunt combination d)Loco will not move
- 20) In Medha version 3 loco, traction motors are isolated through ( a )  
 a) DID panel b)MCOS c)Toggle switch d)By packing reverser bits
- 21) In Medha microprocessor loco if TM No. 4 & 5 are isolated loco will start with ( b )  
 a )Series parallel combination b) Parallel combination

c)series parallel with shunt combination      d)Parallel with shunt combination

- 22) In GE Microprocessor Loco load meter will not respond if ( c )  
a) GFB trips b)ECB trips. c) Both a & b d) CEB trips.
- 23) In GE microprocessor loco during cranking ECS should be kept in ( c )  
a) Isolate b)Run c) Start d) Idle
- 24) In Medha microprocessor loco when traction motor No.5 is isolated ( c )  
a)S1 will not pick up b)S21 will not pick upc)S31 will not pick upd)P31 will not pick up
- 25) In GE microprocessor loco if GFB trips on run ( b )  
a)Throttle will not respond b) Load meter will not respond  
c)Both a and b d)Engine will shut down.
- 26) If MPCB breaker trips DID will become blank in ( c )  
a) GE microprocessor loco b) Siemens microprocessor loco  
c) Medha microprocessor loco d) GM loco
- 27) In GE microprocessor locos to build up F.O.P ( a )  
a) EST should be moved to prime position b)ECS should be moved to prime position  
c)Both a and b d)EST should be moved to start position
- 28) In GE microprocessor loco during false locked axle indication ( d )  
a) Switch On LACS switch. B) Switch On SCO switch.  
c) Isolate defective TM. d) Both a & b.
- 29) In GE microprocessor loco throttle will not respond if ( a )  
a)ERS breaker trips b)GFB trips c)MCB trips d)MFPB-1 trips.
- 30) In GE microprocessor loco during level - 1 fault is experienced ( d )  
a) Bring throttle to idle. b) Toggle DAS switch.  
c) Press reset key. d) Both a & c
- 31) In GE microprocessor loco when automatic fault is experienced ( a )  
a) Bring throttle to idle. b)Toggle DAS switch.  
c) Press Reset key. d) Both b & c.
- 32) In Medha Microprocessor loco if TM2 & 5 are isolated loco will start with( a )  
a) Series-parallel combination b) Parallel combination

- c) Parallel with shunt combination                      d) Series-parallel with shunt combination
- 33) Engine should not be cranked if it is shut down for more than ( c )  
a) 24 hrs.      b) 36 hrs.      c) 48 hrs.      d) 32 hrs.
- 34) If MCBG power breaker is in OFF position during cranking engine will ( b )  
a) not Crank    b) not Fire      c) not Hold      d) a and b
- 35) In WDG4 loco LLOB is located in ( a )  
a) Accessories room    b) Compressor room    c) Engine power take off end    d)ECC3
- 36) In WDP4/WDG4 if GR (power) trips continuously three times within 10 minutes ( a )  
a)Truck isolation is to be done                      b)Defective TM is to be isolated  
c)Defective speed sensor is to be isolated      d)Fail the Loco
- 37) In WDP4/WDG4 loco if LLOB is in tripped position during cranking engine will ( d )  
a) Crank                      b) Not Fire      c) Not hold      d) Not crank
- 38) In WDP4/WDG4 loco defective speed sensor should be isolated if ( a )  
a)False locked axle indication is experienced  
b)GR trips more than 3 times within 10 minutes  
c)Any one TM is defective  
d)Crow bar fires
- 39) In WDP4/WDG4 banker loco working CS, L/T switch should be kept in ( c )  
a)Lead              b)Trail              c)HLPR              d)Test
- 40) In WDG 4 if false locked wheel indication is experienced ( a )  
a) Isolate defective sensor                      b)Isolate defective truck  
c)Isolate defective TM                      d)Fail the loco
- 41) In WDP4/WDG4 dead loco for quick release of loco brakes open one side ( d )  
a) MR equalizing cock                      b)BC equalizing cock  
c)BP equalizing pipe                      d)Both a & b
- 42) In WDP4/WDG4 loco when PCS is knocked out ( a )  
a)MAB breaker should be recycled    b)TCC breaker should be recycled  
c)Air drier breaker                      d)Both a and b

- 43) In WDP4 /WDG4 loco before conducting air brake self test ( a )  
a)Recycle MAB b)Recycle TCC1 and TCC2  
c)Recycle Air drier breaker. d)Both a & b
- 44) In WDP4/WDG4 loco engine should not be cranked when ( b )  
a)Low water button is tripped b)crank case pressure button is tripped  
c)LLOB is in tripped d)OSTA is tripped
- 45) In WDP4/WDG4 loco load meter will not respond if ( c )  
a) GFB trips b) AGFB trips c) Both a & b d) MAB trips
- 46) In WDP4/WDG4 when continuous wheel slip is experienced due to locked axle ( c )  
a)Isolate the defective TM b)Isolate the defective speed sensor  
c)Fail the loco immediately d)Isolate the defective truck
- 47) Location of Battery Knife Switch in WDG4 Loco is ( d )  
a)Nose Compartment b)In Accessories room  
c)In LP's cab d)Loco Left Side Foot Plate
- 48) In WDP4/WDG4 loco while conducting air brake self test in ( c )  
working control stand  
a)Auto Brake handle should be kept in RUN b)Direct Brake should be kept in Full  
Application c)Both a and b d)LT switch in Trail
- 49) In WDP4/WDG4 loco while conducting BP leakage test L/T switch ( c )  
should be kept in  
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 failed b) 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 MUSDR 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 MUSDR 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



- 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 8<sup>th</sup> 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/Cm<sup>2</sup> 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



- 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 defectived)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) Locomotives provided with Cast Iron brake blocks require \_\_\_\_\_ than the Locomotives 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/cm<sup>2</sup>
- 184) If a train stopped in mid section on account of Locomotive Failure, the Locomotive 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 Locomotive      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 conjunctive brakes      c) To stop the train      d) none
- 187) While TOC of Locomotive, if Flasher light glows but does not blink, what action would you take. ( a )  
 a) Fail the locomotive      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 an 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 BP pressure/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, the 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 locomotive 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) Conjunctonal 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, IDLE   c) 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-energized b) 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/Cm<sup>2</sup> b) 6Kg.Cm<sup>2</sup> c) 8.5Kg/Cm<sup>2</sup> d) 9.5Kg/Cm<sup>2</sup>
- 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 energise      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/cm<sup>2</sup>      ( 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/cm<sup>2</sup>      b) 3.5 kg/cm<sup>2</sup>      c) 1.8 kg/cm<sup>2</sup>      d) 5.2 kg/cm<sup>2</sup>
- 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/cm<sup>2</sup>      ( 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/cm<sup>2</sup> ( b )  
a)3              b) 4                      c) 5                      d) 6
- 282) In Alco loco lube oil relief valve is set at \_\_\_\_ kg/cm<sup>2</sup> ( d )  
a)6              b) 7                      c) 8                      d) 9
- 283) In WDG3A loco max. exhaust gas temperature is \_\_\_\_ °C ( 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/cm<sup>2</sup> ( 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,R2,292)
- 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) 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/cm<sup>2</sup> ( a )  
 a) 5            b) 2            c) 3            d) 4
- 308) In Alco loco fuel oil regulating valve is set at \_\_\_\_ kg/cm<sup>2</sup> ( 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/cm<sup>2</sup> ( 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/cm<sup>2</sup> ( 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) Weak 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/cm<sup>2</sup>  
 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/cm<sup>2</sup> 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/cm<sup>2</sup> in 8<sup>th</sup> 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/cm<sup>2</sup>      b) 1.3 & 1.6 kg/cm<sup>2</sup>  
 c) 2.5 & 3.0 kg/cm<sup>2</sup>      d) 4.0 & 2.8 kg/cm<sup>2</sup>
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<sup>th</sup> 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/cm<sup>2</sup> b) 6 kg/cm<sup>2</sup> c) 8 kg/cm<sup>2</sup> d) 10 kg/cm<sup>2</sup>
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



- 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 (Eddy 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) 2<sup>nd</sup> 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





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 Km/h) ( 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) 538°C                      b) 438°C                      c) 338°C                      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/cm<sup>2</sup>) ( 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) 4<sup>th</sup> Notch                      d) 2<sup>nd</sup> Nothch
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) 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/cm<sup>2</sup> ( 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<sup>th</sup> notch c) Idle d) 2<sup>nd</sup> 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<sup>2</sup>) 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





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 )



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
601. No of GR's in AC/DC locomotives ( b )  
 a) 1                      b) 2                      c) 3                      d) 4
602. Which circuits are protected by GR1 & GR2 after earthing? ( c )  
 a) Power Circuit   b) Control circuit   c) Power and Control circuits   d) Nothing
603. 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
604. 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
605. 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
606. 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
607. 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
608. 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  $\frac{3}{4}$ " 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/cm<sup>2</sup>
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.





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 R2 contactors not picking up    b) ECC coil is open circuit  
 c) Both a and d    d) TS1 & TS2 defective
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



- 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 /cm<sup>2</sup> ( 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 8<sup>th</sup> notch 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 8<sup>th</sup> 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 with 50kmph                    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



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 ( d )  
be kept in  
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 ( c )  
be kept in  
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/cm<sup>2</sup> brake cylinder pressure is used in place of 3.5kg/cm<sup>2</sup> 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<sup>th</sup> 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 c) 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) 79° C to 85° 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 )



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



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





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                      c) 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 rpm                      c) 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) All 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. 8<sup>th</sup> 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



963. In HHP loco Medha control system during dynamic braking, engine raise to \_\_\_\_\_ notch rpm. ( a )  
 a) 2<sup>nd</sup>                      b) 4<sup>th</sup>                      c) 6<sup>th</sup>                      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. 4<sup>th</sup> 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) 8<sup>th</sup> 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. 1<sup>st</sup> 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    d) 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)  $500 \Omega \pm 10\%$  at  $20^\circ\text{C}$               b)  $600 \Omega \pm 10\%$  at  $20^\circ\text{C}$   
c)  $700 \Omega \pm 10\%$  at  $20^\circ\text{C}$               d) Non eof the above
1006. Expected water temperature drop through radiator is ( c )  
a)  $5.5^\circ\text{C}$               b)  $7.5^\circ\text{C}$               c)  $9.5^\circ\text{C}$               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) Tracrive 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



- 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) 900kn      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 Epicyclic gear trains is to ( a )  
a) Obtain high velocity ratio in comparatively lesser space  
b) Obtain the desired direction of motion of drive gear  
c) Transmit power when the distance between the two gear is large  
d) None of the above
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) 140kmph      d) 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) 1<sup>st</sup> fan will pick up at full speed with interval of 20 second of last  
 c) 2<sup>nd</sup> 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 energized during idle speed ( d )  
 a) A                      b) A,C                      c) A,D                      d) None of the above
1067. Which solenoid valve is energized during 1<sup>st</sup> 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 comes 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 3<sup>rd</sup> 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/cm<sup>2</sup>      b) 4.5kg/cm<sup>2</sup>      c) 5.2kg/cm<sup>2</sup>      d) 7.0kg/cm<sup>2</sup>
1106. Normal air box pressure (BAP) in HHP Locomotive at full speed & full load is ( c )  
 a) 1.1kg/cm<sup>2</sup>-1.75kg/cm<sup>2</sup>      b) 1.5kg/cm<sup>2</sup>-1.95kg/cm<sup>2</sup>  
 c) 1.4kg/cm<sup>2</sup>-1.75kg/cm<sup>2</sup>      d) 1.4kg/cm<sup>2</sup>-1.50kg/cm<sup>2</sup>
1107. In HHP Locomotive normal lube oil inlet Temperature is ( a )  
 a) 70-90°c      b) 70-80°c      c) 80-90°c      d) 80-99°c
- 1108) During 4<sup>th</sup> 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 \_\_\_\_°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<sub>4D</sub> 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<sub>4</sub> 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 2<sup>nd</sup> notch \_\_\_\_\_ solenoid will pickup. ( a )  
 a) A<sub>v</sub>                      b) B<sub>v</sub>                      c) C<sub>v</sub>                      d) A<sub>v</sub>, B<sub>v</sub> & C<sub>v</sub>
- 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<sup>2</sup>    b) 5 Kg / cm<sup>2</sup>                      c) 8 Kg/ cm<sup>2</sup>    d) 10 Kg/ cm<sup>2</sup>
- 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 release    b) 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<sub>3A</sub> 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<sup>th</sup> notch RPM of 4500 HP loco is \_\_\_\_\_. ( a )  
a) 960      b) 900      c) 1000      d) 1050
- 1187) Low idle RPM of WDG<sub>3A</sub> loco is \_\_\_\_\_. ( a )  
a) 350      b) 260      c) 400      d) 450
- 1188) 8<sup>th</sup> notch RPM of WDG<sub>3A</sub> loco is \_\_\_\_\_. ( a )  
a) 1050      b) 900      c) 1000      d) 110
- 1189) During 8<sup>th</sup> notch \_\_\_\_\_ solenoid will pickup. ( d )  
a) A<sub>V</sub>      b) B<sub>V</sub>      c) A<sub>V</sub> & B<sub>V</sub>      d) A<sub>V</sub>, B<sub>V</sub> & C<sub>V</sub>
- 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<sup>2</sup>      b) 5 Kg/ cm<sup>2</sup>      c) 8 Kg/ cm<sup>2</sup>      d) 10 Kg/ cm<sup>2</sup>
- 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<sup>2</sup>. ( a )  
 a) >4.2            b) >2.8            c) >4.5            d) Between 4 to 5
- 1212) DMR drops if BP pressure is \_\_\_\_\_ kg/cm<sup>2</sup>. ( 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°C                      b) 45°C                      c) 55°C                      d) 60°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) Clampmeter                      d) 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/cm<sup>2</sup> ( 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) 2<sup>nd</sup>                      b) 3<sup>rd</sup>                      c) 4<sup>th</sup>                      d) 5<sup>th</sup>
- 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<sub>2</sub> 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) 8<sup>th</sup> notch      d) 2<sup>nd</sup> 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 °C      b)74 °C                      c)90 °C                      d)86 °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
- 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 °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 ( c )  
(diameter in mm)
- 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) 170°C above ambient temperature

- b) 140°C above ambient temperature
  - c) 200°C above ambient temperature
  - d) 500°C above ambient temperature
- 1304) Traction Motor type -165M pinion never be heated above ( c )  
a) 100°C b) 150°C c) 220°C d) 300°C
- 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<sup>2</sup>
  - b) 1.3 Kg/cm<sup>2</sup>
  - c) 2.5 Kg/cm<sup>2</sup>
  - d) 3.0 Kg/cm<sup>2</sup>
- 1317) On 3<sup>rd</sup> 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<sub>2</sub> 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<sub>2</sub>, 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<sup>2</sup>
  - b) 2 to 4 Kg/cm<sup>2</sup>
  - c) 8 to 10Kg/cm<sup>2</sup>
  - 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<sub>2</sub> 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 )
- Blocking the reserve flow of current to Tr. Gen.
  - Blocking the reserve flow of current to Aux. Gen.
  - Blocking the reserve flow of current to Tacho Gen.
  - Blocking the reserve flow of current to fuel motors
- 1340) Which relay has lowest value of coil resistance..... ( b )
- ERR
  - GR
  - ERR
  - ESR-1
- 1341) On which type of loco thyrite resistor is fitted ( b )
- WDM<sub>2</sub>
  - WDM<sub>3A</sub>
  - WDS<sub>6</sub>
  - YDM<sub>4</sub>
- 1342) Welding of FS contactor tips will give the indication of ( c )
- Ground relay operating
  - EP contactor fluctuating
  - Wheel slip on Ist notch onwards
  - GF not picking up
- 1343) If the reference voltage is more than 24.4 volts, the defects in ( a )
- LCP
  - SP
  - GCR
  - Pilot valve
- 1344) In MU operation both the loco can be shut down through... ( c )
- Stop Button
  - OST
  - MUSD
  - Lube oil plunger
- 1345) The combination of Tr. Motors across WSR-1 in parallel is ( a )
- 1,5
  - 2,4
  - 3,4
  - 2,3
- 1346) The combination of Tr. Motors across WSR-3 in parallel is ( d )
- 3,6
  - 2,5
  - 3,4
  - 4,6
- 1347) No load voltage is checked on wire No. ( b )
- 34G-36
  - 34-36
  - GK-2-GA
  - E-36
- 1348) GCR resistance is a part of ..... ( a )
- ECP
  - VRP
  - TRP
  - 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)  $72 \pm 1$  V d)  $72 \pm 1$  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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