Diesel Locomotives - Multiple Choice Questions

1. What is the minimum Head light Focusing distance required in the locomotives provided with electrical head light?
   a) 100 meters  
   b) 1000 meters  
   c) 2000 meters  
   d) 250 meters and above

2. What is the Fuel oil tank capacity in WDP1 locomotive in litres?
   a) 4000  
   b) 5000  
   c) 3000  
   d) 2000

3. When OPS drops or LLOB trips, the engine will_______.
   a) Raise  
   b) Shutdown  
   c) Comes to Idle  
   d) Hunting

4. Expressor lube oil pump is driven by___________.
   a) Gear  
   b) Chain  
   c) Motor  
   d) Belt

5. The exhaust manifold is connected to ________ part of the TSC.
   a) Gas Inlet Casing  
   b) Intermediate Casing  
   c) Turbine Casing  
   d) Blower Casing

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

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

8. What is the Lube oil capacity (in litres) in WDP1 locomotives?
   a) 760  
   b) 910  
   c) 1100  
   d) 1457

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

10. What is the effective Rundown test timing (in seconds) of NAPIER Turbo? In seconds
    a) 120 to 200  
    b) 90 to 180  
    c) 25 to 65  
    d) 200 to 280
11. Water leaking continuously from water telltale pipe
   a) Dummy it and work further
   b) Fail the loco
   c) Do fast pumping
   d) Work on lower notches

12. Cooling Water capacity in WDM2 locomotive is ______ liters.
   a) 900
   b) 910
   c) 1300
   d) 1210

13. The rundown test of NAPIER Turbo is to be conducted on ______ notch.
   a) Idle
   b) 4
   c) 6
   d) 2

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

15. The lube oil consumption for every 100 liters consumption of fuel on WDM2/WDG4 is
   a) 1.7/1.0 ltrs
   b) 1.5/0.5 ltrs
   c) 1.6/0.7 ltrs
   d) 1.0/0.3 ltrs

16. .................type of speedometer is available on WDG4.
   a) Mechanical
   b) Radar Sensor
   c) Electrical
   d) Electronic

17. The more Oxygenated Air is required for better ______.
   a) Control air pressure
   b) Combustion of fuel
   c) Braking
   d) Cooling

18. Hot engine alarm (HEA) will come at ______ degrees centigrade in WDG3A locos.
   a) 60
   b) 70
   c) 90
   d) 80

19. Electro Pneumatic Governor is located in
   a) Expressor room
   b) Radiator room
   c) Nose compartment
   d) Rear compartment

20. During the MR air pressure efficiency test ______ kg/cm² pressure should be created within ______ minutes.
   a) 1.0, 7
   b) 1.5, 6
   c) 0.9, 8
   d) 0.7, 5

21. The number of Brake cylinders provided on WDM2 locomotive
   a) 6
   b) 8
   c) 10
   d) 12
When there is current difference of ........Amps between two traction motors in a group of Traction motors WSR will pick up.

a) 200  
b) 125  
c) 100  
d) 150

Fuel oil pressure is not building up though the FPM is working & sufficient fuel oil is available in tank.

a) CK1 and CK2 not picked up   
b) GF contactor is not picked up   
c) Fuel booster pump not working   
d) Fuel pump contactor not picked up

Lube oil Filter drum is located in______.

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

How many kinds of Brakes are provided on Diesel locomotive WDM2?

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

GFC not picking up in motoring due to

a) CK1 welded   
b) ECS run   
c) Rev. at motoring   
d) Throttle notch 1

LWS is connected to

a) Water left side return header  
b) Water expansion tank  
c) Water right side return header  
d) All the above

Main Reservoir (compressed air pressure) Unloading will takes place at_____kg /cm2.

a) 8   
b) 9   
c) 10   
d) 11

N 1 Reducing valve is located in

a) Radiator room   
b) Expressor room   
c) Nose compartment   
d) Rear compartment

If the VRR fuse is fused, the_________indication will come.

a) CK1 and CK2 contactor tips welded   
b) Battery over charging   
c) Green lamp and engine idle   
d) Battery discharge

From where the control air pressure will get air pressure______.

a) MR2   
b) MR1   
c) BKTs   
d) J filter
32. Lube oil dipstick gauge of WDG3A is having ______ liters capacity.
   a) 400   b) 380   c) 600   d) 500

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

34. On what notch the rundown test of ABB Turbo is to be conducted?
   a) Idle   b) 2   c) 3   d) 4

35. Reduction in BP pressure causes ______.
   a) Brakes release   b) Brakes slow release   c) Brakes application   d) MR pressure increasing

36. Railway Board has made re-nomenclature of the Diesel locomotives in which the last two digits denotes
   a) Lube oil capacity   b) Fuel oil capacity   c) Horse Power   d) Weight of the loco

37. ______ Number of brake blocks are provided on WDM2.
   a) 16   b) 24   c) 32   d) 22

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

39. The Fuel oil crossover flexible pipe is located in
   a) Radiator room   b) Nose compartment   c) Power takeoff end   d) Free end

40. In WDM2, having IRAB brake system the VA1B valve is located in/at
   a) Nose compartment   b) LPs cab   c) Long hood control stand   d) None of the above

41. After cooler cooled air in air inlet casing is also called as ________.
   a) Control air pressure   b) Vacuum control air pressure   c) HS4 pressure   d) Booster air pressure
42. In WDG4 locos Lube oil Cooler is located in________. b
   a) Radiator room         b) Expressor room
c) Generator room        d) Under truck

43. Lube oil Bypass valve in WDM2 locos is set at _____ d psi.
   a) 50                      b) 40
   c) 30                      d) 20

44. The compressed air enters to MR1 tank through d
   a) MR Safety valve        b) MR2
   c) Cooling Coil          d) 3 / 4" cut out cock

45. Inter cooler safety valve is set at______ psi., pressure.  c
   a) 100                      b) 80
   c) 60                      d) 40

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

47. Air pressure Cooling coils in WDG4 is located at c
   a) Under truck            b) Engine block
   c) Radiator room          d) Expressor room

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

49. The combined unit of Exhauster and Compressor is called b
   a) Impellor                  b) Expressor
   c) Super charger            d) Processor

50. ABB turbo super charger effective Rundown time_____ in seconds. b
   a) 200 to 280                b) 120 to 200
   c) 25 to 65                  d) 90 to 180

51. Where 28VB control valve is is located? c
   a) Engine block             b) Back panel
   c) Short hood control stand d) Long hood control stand

52. In WDM2 locomotives, during cranking, if Normally Closed Interlock of SAR is not getting closed, the result will be c
   a) Throttle will not respond b) Load meter will not respond
   c) Engine will crank and fire but not hold d) Engine will not fire
53. In WDM2 engine, the Water pump is driven by
   a) Motor  b) Pulley  c) Gear  d) Belts

54. On WDG3A high adhesion bogie the loco body weight is supported on bogie frame through
   a) 4 side bearers / load pads  b) centre pivot  c) centre pivot and side group bearers  d) side springs

55. For WDG3A on each truck .............no of horizontal hydraulic dampers are provided.
   a) 5  b) 2  c) 8  d) 16

56. .............is provided on WDG3A bogie to avoid run out of bogie from chassis.
   a) center pivot  b) side bearers  c) Shackles  d) side stoppers

57. On WDG3A each truck is fitted with .................d arrangement of traction motors.
   a) LLR  b) LRR  c) LRL  d) uni directional i.e LLL&RRR

58. Now a days the wick pad type suspension bearing is replaced with .............in new loco's.
   a) Roller bearing  b) Hanging type  c) lubrication with soft grease  d) Higher quality lube oil

59. ........no traction motor will be defective in case continuous wheel slip with WSR1 in Series parallel and
    WSR3 in Parallel operating.
   a) 1  b) 3  c) 4  d) 5

60. To reset auto flasher .............is to be used.
   a) SP1  b) SP2  c) SW1/SW2  d) GFOLR reset button

61. Whenever A9 is brought to emergency position action taken place in auto flasher system is
   a) DMR de-energise  b) BKT will come to braking  c) GFOLR will trip  d) Flasher light will glow

62. Power contactors flutters due to
   a) less magnetism  b) Load meter defective  c) less control air pressure  d) week batteries
63. The following may be used for fast charging of BP on WDG3A.
   a) Release position of A9  b) foot pedal
   c) SP1  d) SW1

64. Whenever BP pressure drops below ......kg/cm² other than A9 operation auto flasher will come into action.
   a) 4.1  b) 4.4
   c) 4.3  d) 4.5

65. In twin beam head lights ........volts halogen lamps are used.
   a) 72  b) 32
   c) 24  d) 20

66. In twin beam head light system in DC-DC convertor if one unit is defective the stand by unit can be brought into function by
   a) operating change over  b) By changing to switch on DC-DC control converter stand
   c) by replacing bulb  d) none

67. If DMR not picking up in idle but on opening throttle to 2nd notch by pressing DMR if it is picking means
   a) Week DMR  b) TH & selector interlocks defective
   c) Self interlocks defective  d) PCS knocked out

68. In MCBG loco actuator /sensor unit is located at
   a) inside engine block  b) excitation panel
   c) LP cab  d) existing location of governor

69. In MCBG loco when shut down occurs due to over speed initiated by MCBG, it should be acknowledged by
   a) Resetting push button  b) OST test key switch
   c) Power switch  d) GFOLR reset button

70. In MCBG loco if sensor signals not coming or wire opens what will happen?
   a) engine will shut down  b) Engine will not fire
   c) engine will not respond  d) Load meter will not respond

71. The conventional electronic type excitation system is replaced with ..........in new loco's
   a) Microprocessor  b) static type
   c) shunt type  d) self excitation

72. In WDG4 loco HP input to Traction motors is
   a) 4000  b) 3726
   c) 3100  d) 3900
73 In WDG4 loco compressor is cooled by d
   a) Nature b) Air
c) Oil d) Water
74 In WDG4 turbo is cooled by c
   a) Nature b) Air
c) Oil d) Water
75 In WDG4 power contactors are replaced with d
   a) FS contactors b) only relays
c) BKT/REV d) DC Link
76 In WDG4 traction motors are b
   a) DC b) AC
c) 50%AC and 50% DC d) Low voltage
77 In WDG4 (ECS) isolation switch is having ...........no of positions. b
   a) 1 b) 2
c) 3 d) 4
78 While on run if airflow meter shoots up with jerk means b
   a) defect b) parting taken place
c) spring broken d) moisture in air
79 For quick charging of BP in WDG4 ............is used. d
   a) SP1/SP2 b) SW1/SW2
c) Foot pedal d) A9 (auto brake) release
80 In WDG4 hot oil detector is set at....degrees centigrade. b
   a) 100 b) 126
c) 200 d) 124
81 If GF contactor is fluttering after taking II transition check d
   a) GF relay b) P2
c) S1 d) P32
82 GR protects from b
   a) Nothing b) earth fault
c) hot engine d) melting of grids
83 OPS2 function is d
   a) to when OPS1 is defective
   c) To watch fuel oil pressure
d) to safe guard engine from low lube oil pressure on higher notches
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<td>When GFOLR resetting button is defective ................................................................................................................</td>
<td>d) reset manually</td>
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<td>...........................................................................................................................................to be done.</td>
<td>a) inform shed</td>
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<td>b) ask for R.E.</td>
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<td>c) Use L rod</td>
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<td>brake is available only in WDP4. ......................................................................................................................................</td>
<td>c) blended brake</td>
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<td>a) Computer brake</td>
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<td>b) vigilance brake</td>
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<td>d) tread brake</td>
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<td>86</td>
<td>Blended brake is mixture of ........................................................................................................................................</td>
<td>b) Vacuum + Air</td>
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<td>d) tread brake</td>
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<td>87</td>
<td>In WDP4 when the loco is moving in opposite direction to the reverser position............will happen soon the speed increases to 5 kmph.</td>
<td>a) Dynamic brake come into action</td>
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<td>b) altery will come into function</td>
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<td>...........................................................................................................................................power ground will take place</td>
<td>c) power ground will take place</td>
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<td>...........................................................................................................................................loco will shutdown</td>
<td>d) loco will shutdown</td>
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<td>88</td>
<td>Now a days the following item is removed on WDM2 loco's ..................................................................................................</td>
<td>b) Lube oil by pass valve</td>
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<td>a) Transition switch</td>
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<td>b) Lube oil by pass valve</td>
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<td>c) VCD system</td>
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<td>d) vacuum brake</td>
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<td>89</td>
<td>While on run if SPM drops to zero and transition also drops it may be due to ........................................................................</td>
<td>d) ADA dropped/ defective</td>
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<td>a) emergency brake</td>
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<td>b) ACP</td>
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<td>c) Defect in mother card</td>
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<td>d) ADA dropped/ defective</td>
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<td>90</td>
<td>When wheel is floated speed is restricted ............kmph. ...................................................................................................</td>
<td>b) 35</td>
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<td>a) 25</td>
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<td>d) 40</td>
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<td>91</td>
<td>WDM2 expressor is having .................couplings. .............................................................................................................</td>
<td>a) Fast and flexible</td>
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<td>b) CBC and Baby</td>
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<td>c) ABC and fast</td>
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<td>d) Universal and flexible</td>
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<td>92</td>
<td>Excess Brake cylinder pressure can cause ................................................................................................................................</td>
<td>c) wheel skidding</td>
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<td>a) quick speed dropping</td>
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<td>b) train brakes not required</td>
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<td>c) wheel skidding</td>
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<td>d) Dynamic brake not necessary</td>
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93. If SAR coil is open circuited during cranking
   a) GR trips  
   b) nothing will happen  
   c) OSTA trips  
   d) Throttle will not respond

94. If CK1 bridge interlock defect ...........trouble.
   a) not cranking  
   b) not holding  
   c) ck1/ck2 fluttering  
   d) not firing

95. If batteries are weak during cranking can be identified by
   a) battery ammeter  
   b) fluttering of CK1,CK2  
   c) starting lamp  
   d) smoke from bat-teries

96. While working on higher notches with full load if B.A.P. is repeatedly dropping and raising is called
   a) Sneeging  
   b) Hunting  
   c) Surging  
   d) None

97. In WDM2 GE governor loco, when stop switch is pressed ..........will be energised.
   a) ESR4  
   b) Clutch coil  
   c) stabilising coil  
   d) SAR coil

98. On WDM2 if engine not cranking ............power a contactor NCI to be checked.
   a) P22/S1  
   b) P21/S1  
   c) P22/S21  
   d) P22/S31

99. TDR in WDM3a (cranking circuit) is set at
   a) 1.5 minutes  
   b) 1.5seconds  
   c) 2seconds  
   d) 1second

100. During cranking if engine not holding may be due to
    a) CK1 bridge interlock  
    b) MUSD  
    c) FPB  
    d) OPS

101. FS21 and FS22 coils get supply through these breaker
    a) FPB  
    b) MFPB  
    c) CCEB  
    d) MCB

102. Stabilising and clutch coil get supply through these breakers.
    a) FPB  
    b) CCEB  
    c) MCB  
    d) MFPB
ECC coil get supply through breaker.  
- a) FPB  
- b) CCEB  
- c) MCB  
- d) MFPB  

104 For 10 minutes time gained by loco .........litr. of fuel is allowed.  
- a) 25  
- b) 35  
- c) 50  
- d) 60  

In fuel oil system .........type of filters are used.  
- a) socks type  
- b) foam type  
- c) mesh type  
- d) paper type  

On WDM2 while working with full load on raising gradient .........liters of fuel will be consumed for an hour.  
- a) 1000  
- b) 400  
- c) 380  
- d) 480  

DMR picking up in idle but dropping on opening throttle means  
- a) Week DMR  
- b) DMR all interlocks defective  
- c) Self interlocks defective  
- d) PCS knocked out  

CTR no is  
- a) T500  
- b) T600  
- c) T700  
- d) T720  

WDM2 Fuel glow rod gauge scale mesure in ltrs is  
- a) 600 to 5000  
- b) 540 to 5000  
- c) 800 to 5000  
- d) 1000 to 5000  

The only loco provided with two dipstick gauges on either side of the engine block to measure lube oil is  
- a) WDM2A  
- b) WDG3A  
- c) WDP4  
- d) WDG4  

The oil pressure switch in wood ward governor loco is in  
- a) engine block  
- b) inside crank case  
- c) in built governor  
- d) inside nose compartment  

In WDG4 engine cylinders are cooled by  
- a) Water  
- b) oil and water  
- c) super charged air and water  
- d) air conditioning water
Conventional air maize oil bath filters are replaced with a) baggie type  b) paper filter type  c) cyclonic type  d) mesh type filters

While working air brake passenger train if air leaking badly from FP angle cock do a) close 1" C.O.C.  b) Close leading FP angle cock  c) Close 3/4" C.O.C.  d) Close 28VB C.O.C.

EMU and DHMU are provided with c) ……………..couplings a) CBC  b) Automatic  c) Shacoo  d) ABC

If sufficient vacuum is not available in expressor ...........will take place. a) train brakes will apply  b) only loco brakes will apply  c) expressor will burn  d) oil throw takes place

Breather valve provided on c) expressor a) Governor  b) LP cab  c) expressor  d) main generator

On modified (Rack)28LAV1 brake system conjunctional brakes takes place through b)………..will take place. a) 28VB control valve  b) C3W valve  c) VA1B valve  d) none of these

In MU trailing loco during parting, trial position changes lead position in brake system through d)………..will take place. a) A1 Differential pilot valve  b) MU2B  c) VA1 release valve  d) F1selector valve

Weak batteries causes a) over charging  b) Discharge  c) None  d) Load meter will not respond