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Score: 26/98 (26.53%)

Code: 7451

1. What is the boiling point of refrigerant R-134a?

- A) 20.5 Degree Centigrade  
 B) 22.0 Degree Centigrade (Incorrect)  
**C) 26.5 Degree Centigrade**  
 D) 27.8 Degree Centigrade

2. What should be the high air flow rate permitted while doing performance checking in automobile AC system?

- A) 4 kg per min  
 B) 6 kg per min (Incorrect)  
**C) 8 kg per min**  
 D) 10 kg per min

3. Which is not the part of servo motor assembly?

- A) Gear reduction unit  
 B) Normal DC motor  
C) Position sensor (Incorrect)  
**D) Expansion valve**

4. How much DC supply voltage required for servo motor?

- A) 4 V to 8 V (Incorrect)  
**B) 4.8 V to 6 V**  
 C) 3.5 V to 8 V  
 D) 5V to 7.5 V

5. Which wire of servo motor connected to power supply?

- A) White  
 B) Yellow  
 C) Black  
**D) Red (Correct)**

6. What is the function of magnetic clutch in air conditioning system?

- A) Cool the hot refrigerant  
**B) Connect and disconnect drive to compressor (Correct)**  
 C) Absorbs moisture in the system  
 D) Control the refrigerant flow to evaporator

7. What is the function of condenser?

- A) Control the refrigerant flow  
B) Absorbs moisture in the system (Incorrect)  
**C) Cool the hot refrigerant**  
 D) Convert refrigerant to vapour

8. Which part of air conditioning system absorbs moisture in the system?

- A) Expansion valve  
**B) Receiver**  
C) Condenser (Incorrect)  
 D) Evaporator

9. Which part of air conditioning system remove heat from air and transfer to the refrigerant?

- A) Evaporator**  
B) Condenser (Incorrect)

C) Receiver

D) Blower

10. Which type of flow mode is selected if outside is dusty and contaminated in car AC system?

- A) Recirculation mode (Correct)**  
 B) Fresh mode  
 C) Heating mode  
 D) Defroster mode

11. Which device acts as an evaporator temperature sensing switch?

- A) Thermostatic switch (Correct)**  
 B) Blower switch  
 C) Heater switch  
 D) Defroster switch

12. Where the ambient temperature sensor is located in the vehicle?

- A) Behind the grill**  
B) Rear side of engine (Incorrect)  
 C) Front axle  
 D) Top of servo motor

13. What is the function ambient temperature sensor in the air conditioning system?

- A) Monitor air temperature inside vehicle  
**B) Monitor air temperature outside vehicle**  
 C) Monitor air temperature in driver cabin  
D) Monitor air temperature at the exhaust (Incorrect)

14. What is the advantage of using servo motor in air conditioning system?

- A) High speed operation possible**  
B) Suitable for precision control of rotation (Incorrect)  
 C) Low cost of maintenance  
 D) Suitable to prevent vibration

15. Which sensor measures the actual body temperature of passengers?

- A) Smog sensor  
 B) Sun load sensor  
**C) Infrared sensor**  
D) Interior temperature sensor (Incorrect)

16. Which sensor causes off the outside air inlet or other odours?

- A) Infrared sensor  
 B) **Smog sensor**  
 C) Sunload sensor  
D) Temperature sensor (Incorrect)

17. What is the colour of pilot lamp provided in the vehicle?

- A) Red  
C) White  
**B) Green**  
D) Orange (Incorrect)

18. What is the colour of front indicator lamps?

- A) Red (Incorrect)  
C) Green  
B) White  
**D) Orange**

19. What is the expansion of LED?

- A) Long electrical diodes (Incorrect)  
C) Light emitting diodes  
B) Light electronic diodes  
D) Limited electrical data

20. What is the gas filled in the sealed beam head lights?

- A) Oxygen gas (Incorrect)  
C) Argon gas  
B) Nitrogen gas  
D) Hydrogen gas

21. Where the red colour indicator lamps are provided in the vehicle?

- A) Front side  
C) Side of vehicle (Incorrect)  
B) Pilot lamp  
**D) Rear side**

22. What is the advantage of using side indicator in a vehicle?

- A) Prevent accident while turning left and right (Correct)  
C) Indicate the vehicle behind  
B) Provide effective illumination  
D) Provide enough visibility

23. What is the use of cornering light in a vehicle?

- A) Provide interior illumination  
C) Indicate traffic behind vehicle  
**B) Highlight the blind spot during bend (Correct)**  
D) Provide enough visibility to driver

24. Which type of head light provide 25% more light than sealed beam head lights?

- A) Neon type head light  
C) LED type head light (Incorrect)  
**B) Halogon head light**  
D) LCD type head light

25. Which type of lights provide maximum brightness in a shorter time?

- A) LED light (Correct)  
C) Halogon light  
B) LCD light  
D) Neon light

26. What is the purpose of indexing pin provided in the bulb case?

- A) Complete the circuit  
C) Prevent damage to light  
**B) Retain the bulb in the socket (Correct)**  
D) For easy identification

27. What is the use of single red lamp of 24 watts fitted at the rear?

- A) Provide enough visibility  
C) Help driver to see full width of road (Correct)  
B) Give indication the traffic behind  
D) Provide interior illumination

28. What is the use of tail light?

- A) Indication to vehicle behind  
C) Provide interior illumination (Incorrect)  
B) Indication to slowing down  
D) Provide enough visibility

29. Which light give indication to the traffic behind the vehicle for slowing down?

- A) Stop light  
C) Dome light (Incorrect)  
B) Fog light  
D) Head light

30. Which light provide effective illumination during snowfall?

- A) Head light  
C) Fog light  
B) Parking light (Incorrect)  
D) Stop light

31. What is the purpose of dome light circuit?

- A) Panel board gauges indication  
C) Used for parking vehicle on road (Incorrect)  
**B) Interior illumination**  
D) Provide enough visibility to driver

32. Which circuit provide miniature bulbs to know the working gauges?

- A) Panel light circuit  
C) Parking light circuit (Incorrect)  
B) Head light circuit  
D) Stop light circuit

33. What is the use of two small lamps fitted front and rear of vehicle?

- A) Used for visibility  
C) Used for parking on the road (Correct)  
B) Provide illumination

34. Which lighting circuit provided with dip and dim switch?

- A) Parking light circuit (Incorrect)  
C) Panel light circuit  
**B) Head light circuit**  
D) Fog light circuit

35. What is the purpose of ?V? pulley in the charging system?

- A) Drive the cam shaft  
**B) Rotate the alternator rotor**

C) Drive the crank shaft  
D) Support rectifier mounting plates (Incorrect)

36. Which type of DC starter motor generally used in automoniles?

A) **Series type**  
C) Compound type  
B) Shunt type  
D) Parallel type (Incorrect)

37. What is the working principle of alternator?

A) Ohms law (Incorrect)  
C) **Electromagnetic induction**  
B) Law of resistance  
D) Lenz's law

38. What is the material used to make diodes?

A) Mica  
C) Alumina foil (Incorrect)  
B) **Silicon**  
D) Graphite

39. Which part of bendix drive starting system limit the turning of the sleeve on the armature shaft?

A) Pinion  
C) Anti drift spring (Incorrect)  
B) **Bendix drive spring**  
D) Fly wheel

40. What is the purpose of slot provided in the laminated cylindrical iron core of stator assembly?

A) For lubricantion  
C) For easy fitting  
B) **For fitting insulated windings (Correct)**  
D) Provide space for cooling

41. What is the function of over running clutch in the starting system?

A) **Protect armature from damage**  
C) Operate the solenoid  
B) Prevent sliding movement of pinion (Incorrect)  
D) Drive the armature shaft

42. How the alternator field terminal is connected to the battery?

A) **By ignition switch (Correct)**  
C) By charge indicator  
B) By indicator lamp  
D) By voltage regulator

43. What is the function of drive end frame in the alternator?

A) Carriers driving pulley  
C) Allow current flow in one direction  
B) Connecting to spring loaded brush  
D) **Support the pre lubricated sealed bearing (Correct)**

44. What is the function of solenoid switch?

A) Open and close the circuit between primary and secondary (Incorrect)  
B) Stepdown voltage from primary to secondary winding

C) **Close the contact between battery and starting motor**

D) Shift the lever to engage the plunger

45. What is the function of rotor assembly?

A) Supports pre lubricated scaled bearing (Incorrect)  
C) Allow the current flow in one direction  
B) **Carriers driving pulley and cooling fan**  
D) Supports rectifier mounting plates

46. Which type of winding is connected to the starter switch in the solenoid switch?

A) **Pull in winding**  
C) Compound winding (Incorrect)  
B) Hold in winding  
D) Primary winding

47. What is the minimum RPM of crank shaft required to start the engine?

A) 180 RPM  
C) **100 RPM (Correct)**  
B) 200 RPM  
D) 150 RPM

48. Where the starter motor located?

A) Front side of engine  
C) Top side of engine  
B) **Rear side of engine (Correct)**  
D) Bottom of engine

49. What is the advantage of series winding type starter motor?

A) **Produce high starting torque**  
C) Increase the life of armature  
B) Produce constant starting torue (Incorrect)  
D) Less cost of maintance

50. Why it is necessary to disengage the starter pinion from fly wheel ring gear once the engine has started?

A) **Prevent damage to starter motor**  
C) Reduce the wear on commutator (Incorrect)  
B) Prevent wastage of current  
D) Increase the fuel efficiency

51. How the armature winding ends are connected with commutator?

A) By welding  
C) By riveting  
B) **By soldering**  
D) By brazing (Incorrect)

52. What is the purpose of alternator?

A) Produce more electricity at high RPM  
C) Produce constant electric supply at high RPM  
B) **Produce more electricity at low RPM**  
D) Produce variable electric supply at high RPM (Incorrect)

53. What is the function of diodes?

**A) Convert AC to DC (Correct)**

B) Convert DC to AC

C) Step up voltage

D) Step down voltage

54. Which device used to prevent damage to the battery and other electrical accessories?

**A) Voltage regulator (Correct)**

B) Current regulator

C) Distributor assembly

D) Alternator

55. What is the adverse effect of fly wheel ring to starter pinion ratio is very high?

A) Reduce the starting torque

**B) Damage to starter motor**

C) Increase the starting torque (Incorrect)

D) Starter motor fails to start

56. Why the brushes are provided with a curvature at the bottom in the starting system?

A) Prevent wear on commutator

**B) Provide more contact with commutator (Correct)**

C) Ensure proper heat dissipation

D) Provide ventilation to commutator

57. What is the contributory cause of starter motor running but not cranking?

A) Abnormally worn brush

**B) Over running clutch slipping**

C) Faulty ECM circuit

D) Poor contacting action of ignition (Incorrect)

58. What will be the result of worn teeth of ring gear in the starting system?

A) Motor running but too fast

B) Motor not running no operating sound of magnetic switch (Incorrect)

C) Starter motor running too slow

**D) Starter motor running but not cranking**

59. What is the possible cause of motor not running and no operating sound of magnetic switch?

A) Burnt commutator

**B) Battery discharged (Correct)**

C) Worn brushes

D) Worn pinion tip

60. Why anti drift spring is provided in the bendix drive starting system?

A) Provide grip over armature shaft

B) Avoid the side way movement of armature shaft (Incorrect)

**C) Prevent pinion striking fly wheel**

D) Resist wear on the fly wheel

61. What is the cause of low voltage output from alternator?

**A) Faulty regulator**

B) Loose mountings (Incorrect)

C) Worn out bearing

D) Loose drive pulley

62. What causes charges at high rate in the alternator?

A) Open rectifier circuit

B) Open field current

C) Voltage regulator setting too low (Incorrect)

**D) Voltage regulator setting too high**

63. What will be the result of loose drive pulley in the alternator?

A) Charges at high rate

B) Low voltage output from alternator (Incorrect)

C) No change when engine running

**D) Alternator noisy**

64. What causes no charge when engine is running?

**A) Drive belt loose**

B) Shorted rectifier

C) Sticky regulator

D) Brushes not seating properly (Incorrect)

65. Which labour act provide information regarding accidents death, or disability?

A) Employees statute insurance act 1948 (Incorrect)

B) Employees P.F act 1952

**C) Workers compensation act 1923**

D) Minimum wages act 1948

66. Which act regulate the payment of wages to certain class of persons?

**A) Payment of wages act 1936**

B) Trade union act 1926

C) Minimum wages act 1948

D) Equal remuneration act 1976 (Incorrect)

67. Which manual provide information regarding employment in india laws framed by state and central governments?

A) Shop manual

**B) Labour guide**

C) Owners manual (Incorrect)

D) Repair manual

68. Which type of manual provide information about engine no, chassis no and engine capacity?

A) Shop manual

B) Labour guide (Incorrect)

C) Repair manual

**D) Owners manual**

69. Which type of manual give details about sequence of operation of the vehicle?

A) Shop manual

B) Owners manual (Incorrect)

**C) Repair manual**

D) Labour guide

70. Which type of ECU control the power windows of vehicle?

- A) ECM (Incorrect)      B) EBCM  
C) BCM                      D) VCM

71. Which type of ECU is the combination of ECM and TCM in the vehicle?

- A) PCM                      B) EBCM  
C) BCM                      D) VCM (Incorrect)

72. What is the function of vehicle control module?

- A) Control actuators of engine  
B) Control engine and vehicle performance (Correct)  
C) Handle transmission  
D) Control anti clock brake system

73. Which type of ECU control actuators of engine?

- A) VCM                      B) TCM  
C) ECM (Correct)        D) EBCM

74. What does the 3rd digit code no 9. indicate system trouble in scan tool letter codes?

- A) Ignition system (Incorrect)  
B) Input/out signal and controls (Correct)  
C) Emission system  
D) Computer system

75. What does the third digit of system trouble code no.6 deals with in scan tool letter code?

- A) Ignition system        B) Emission system  
C) Computer system       D) Transmission system (Incorrect)

76. What does the first unit identify in the scan tool letter code?

- A) Manufacturer unique number  
B) Trouble code reference system (Incorrect)  
C) Type of error            D) Specific failure

77. What is the motive of vehicle information report?

- A) Provide information about vehicle registration history (Correct)  
B) Provide information about tracking of vehicle  
C) Provide information about vehicle safety  
D) Provide information about warming system

78. What is the expansion of GPS in vehicle safety system?

- A) Global Placing Satellites  
B) Global Positioning Satellites (Correct)  
C) General Positioning Satellites (Incorrect)  
D) Global Preventing Systems

79. What is the expansion of ICAT in the vehicle safety

system?

- A) Indian computer advanced technology  
B) Intelligent computerized anti theft system (Correct)  
C) Intelligent computer advanced techonlogy (Incorrect)  
D) Indian combat advanced technology

80. What is the advantage of multiplex network?

- A) Improve vehicle safety system  
B) Prevent malfunctioning of air bag system (Incorrect)  
C) Reduce system cost and weight  
D) Determine vehicle tracking system (Correct)

81. Which system determine the vehicles location by forming a triangle with a group of four or more satallites?

- A) Triangulation (Correct)  
B) Reflective displays  
C) Telematic  
D) Networking and Multiplexing (Incorrect)

82. Which sensor used for safer parking of vehicle?

- A) Infrared sensor  
B) Proximity sensor (Correct)  
C) Crash sensor  
D) Air bag sensor

83. What is the purpose of seat belt pre tensioners?

- A) Hold the ocupant tightly in the seat (Correct)  
B) Detect passengers weight  
C) Prevent the side way movement of seat (Incorrect)  
D) Protect the occupant from head injury

84. How to confirm the satisfactory function of air bag system?

- A) Air bag warming light come on during starting and stopping (Incorrect)  
B) Warming light on with engine running throught  
C) Warning light on and flash few times and go out during starting (Correct)  
D) Peep sound on during starting

85. Which device inflate the air bag in few milli seconds during vehicle collision?

- A) Seat belt pre tensioners (Incorrect)  
B) Steering lock  
C) GPS tracker  
D) Inflator module (Correct)

86. Why seat belt and air bag systems are necessary in the vehicle?

- A) Provide ventilation inside vehicle  
B) Prevent the steering wheel from turning (Incorrect)  
C) To protect the driver and passenger (Correct)  
D) To track the stolen car

87. What is the purpose of engine immobilizer?

A) Electric opening and closing of door

**C) Prevent from starting the engine**

B) Used to operate horn relay

D) o compensate from sun light entering vehicle  
(Incorrect)

88. How much is the current consumption of wind shield wiper motor?

**A) 2.7 to 3.4 Amps**

C) 1.8 to 3.2 Amps

B) 2.2 to 3.2 Amps (Incorrect)

D) 3.5 to 5.2 Amps

89. Which type of horn consist electically driven air pump forces air through plastic trumpet?

**A) Wind horn**

C) Air horn

B) Wind horn

D) Electric horn (Incorrect)

90. Which type of wipers are used for heavy motor vehicles?

A) Hand operated wiper

C) Hydraulically operated wiper

B) Vacuum operated wiper

**D) Compressed air operated wiper (Correct)**

91. Which is the most commonly used wiper in all motor vehicles?

**A) Electrically operated wipers**

C) Vacuum operated wipers

B) Hydraulically operated wipers

D) Compressed air operated wipers (Incorrect)

92. What is the cause of horn does not produce any sound?

A) Relay point stuck up

C) Low voltage at horn terminal (Incorrect)

**B) Fuse blown off**

D) Tone disc damaged

93. What causes horn sounds continuously even switch is in

off position?

A) Fuse blown off

**C) Relay point stuck up**

B) Incorrectly adjusted relay

D) Low battery voltage  
(Incorrect)

94. Why horn produces low improper sound?

**A) Cracked diaphragm**

C) Relay points stuck up  
(Incorrect)

B) Fuse blown off

D) Open field coil winding

95. What is the necessicity of wiper unit?

**A) To see road and traffic clearly (Correct)**

C) To reduce effert on the steering

B) To provide easy steering

D) To provide balancing of vehicle

96. Why power windows are provided with lock out switch controlled by a driver?

**A) Prevent accident**

C) Improve easy handling

B) Provide effective operation (Incorrect)

D) Prevent damage to windows

97. What is the cause of window glass is not lifting while motor running properly?

A) Glass door channels unserviceable

**C) Window glass lifting regulator defective (Correct)**

B) Motor is defective

D) Power window switch defective

98. What is the possible cause for immobilizer antenna error?

**A) ECM problem**

C) Poor transponder in key

B) Unregistered ignition key  
(Incorrect)

D) Blown fuse