

**Duration: 30 Mins**

**Total Marks: 72**

**Q.ID: ITISKILL2701EL**

1. What is the effect on engine performance if air leak in the induction system observed?

- A) Engine produce abnormal noise
- B) Pressure regulator
- C) Engine hard to start - Hot
- D) Engine cranks but will not start

**Answer: C) Engine hard to start - Hot**

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

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

**Answer: A) Rear side**

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

- A) Vacuum operated wipers
- B) Hydraulically operated wipers
- C) Electrically operated
- D) Compressed air operated wipers

**Answer: C) Electrically operated wipers**

4. What is the advantage of EFI engine management system?

- A) Effective fuel distribution achieved
- B) Increased mechanical efficiency
- C) Better starting and acceleration
- D) Increased thermal efficiency

**Answer: C) Better starting and acceleration**

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

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

**Answer: C) To protect the driver and passenger**

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

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

**Answer: C) Halogon head light**

7. Which electronic control system supplies optimum airfuel mixture to the combustion chamber under different driving condition?

- A) Idle speed control system
- B) Ignition control system
- C) Oil pump control system
- D) Fuel injection control system

**Answer: D) Fuel injection control system**

8. Which electronic control system prevent stalling of engine when additional loads are placed on the engine?

- A) Fuel pump control system
- B) Ignition control system
- C) Fuel injection control system
- D) Idle speed control system

**Answer: D) Idle speed control system**

9. Which light provide effective illumination during snowfall?

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

**Answer: B) Fog light**

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

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

**Answer: A) Head light circuit**

11. What is the purpose of dome light circuit?

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

**Answer: B) Interior illumination**

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

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

**Answer: B) LED light**

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

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

**Answer: C) Inflator module**

14. What is the function of thermo time switch in engine control module?

- A) Sense exhaust gas temperature  
B) Indicate fuel temperature  
C) Indicate lubricant temperature  
D) Sense engine coolant temperature

**Answer: D) Sense engine coolant temperature**

**15.** Where the engine control module installed in the engine?

- A) Near the fly wheel  
B) Front side of radiator  
C) In the gear box assembly  
D) Under side of instrument panel

**Answer: D) Under side of instrument panel**

**16.** What is the purpose of tachometer?

- A) Indicate oil pressure  
B) Indicate coolant temperature  
C) Indicate engine RPM  
D) Indictae fuel level

**Answer: C) Indicate engine RPM**

**17.** What is the purpose of engine immobilizer?

- A) Prevent from starting the engine  
B) o compensate from sun light entering vehicle  
C) Electric opening and closing of door  
D) Used to operate horn relay

**Answer: A) Prevent from starting the engine**

**18.** Which part of electronic fuel injection system controls opening of bypass air passage?

- A) Check valve  
B) Pressure relief valve  
C) Idle air control valve  
D) Throttle valve

**Answer: C) Idle air control valve**

**19.** What is the expansion of ICAT in the vehicle safety system?

- A) Intelligent computer advanced techonology  
B) Indian computer advanced technology  
C) Indian combat advanced technology  
D) Intelligent computerized anti theft system

**Answer: D) Intelligent computerized anti theft system**

**20.** What is the contributory cause for the engine hard to start - cold?

- A) Thermo time switch faulty  
B) Damaged radiator  
C) Faulty fuel filter  
D) Defective oil pressure

**Answer: A) Thermo time switch faulty**

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

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

**Answer: A) Global Positioning Satellites**

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

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

**Answer: D) Highlight the blind spot during bend**

**23.** Which sensor used for safer parking of vehicle?

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

**Answer: B) Proximity sensor**

**24.** Which sensor is used to sense vibration?

- A) Engine knocking sensor  
B) Vehicle speed sensor  
C) Hall effect sensor  
D) Air vertex sensor

**Answer: A) Engine knocking sensor**

**25.** Which sensor used to measure the magnitude of a magnetic field?

- A) Engine knocking sensor  
B) Hall effect sensor  
C) Air vertex sensor  
D) Voltage sensor

**Answer: B) Hall effect sensor**

**26.** What is the necessity of wiper unit?

- A) To provide balancing of vehicle  
B) To see road and traffic clearly  
C) To reduce effort on the steering  
D) To provide easy steering

**Answer: B) To see road and traffic clearly**

**27.** What is the function of distributor in the battery ignition system?

- A) Distribute high tension current from ignition coil to secondary winding  
B) Opens and closes the secondary circuit of coil  
C) Distribute high tension current flow ignition coil to spark plugs  
D) Distribute low tension current to ignition coil

**Answer: C) Distribute high tension current flow ignition coil to spark plugs**

**28.** Why horn produces low improper sound?

- A) Relay points stuck up  
B) Fuse blown off  
C) Cracked diaphragm  
D) Open field coil winding

**Answer: C) Cracked diaphragm**

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

- A) Orange  
B) Red  
C) White  
D) Green

**Answer: D) Green**

**30.** Which type of sensor located at the exhaust manifold?

- A) Oxygen sensor  
B) Hall effect sensor

- C) Air vertex sensor                      D) Mass air flow sensor

**Answer: A) Oxygen sensor**

**31.** What is the purpose of seat belt pre tensioners?

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

**Answer: B) Hold the occupant tightly in the seat**

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

- A) 2.7 to 3.4 Amps                      B) 1.8 to 3.2 Amps  
C) 3.5 to 5.2 Amps                      D) 2.2 to 3.2 Amps

**Answer: A) 2.7 to 3.4 Amps**

**33.** What is the expansion of LED?

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

**Answer: B) Light emitting diodes**

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

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

**Answer: D) Triangulation**

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

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

**Answer: A) Help driver to see full width of road**

**36.** Which type of sensor used to monitor the injection timing and ignition timing of engine?

- A) Engine knocking sensor                      B) Crank and cam, shaft position sensor  
C) Throttle position sensor                      D) Pressure sensor

**Answer: B) Crank and cam, shaft position sensor**

**37.** What is the special feature of cold start system?

- A) Provide additional fuel during starting                      B) Determine timing and sequence of fuel injection  
C) Intake manifold                      D) Provide positive starting

**Answer: A) Provide additional fuel during starting**

**38.** Which part of ignition system connects and disconnects primary circuit?

- A) Ignition coil                      B) Contact breaker

- C) Condenser                      D) Distributor

**Answer: B) Contact breaker**

**39.** How much is the difference in resistance is permitted in the temperature sensor unit?

- A) More than 200 ohms                      B) More than 150 ohms  
C) More than 400 ohms                      D) More than 100 ohms

**Answer: A) More than 200 ohms**

**40.** What is the permitted spark plug gap in general?

- A) 2.83 mm                      B) 2.53 mm  
C) 2.03 mm                      D) 2.92 mm

**Answer: C) 2.03 mm**

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

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

**Answer: B) Stop light**

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

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

**Answer: C) Argon gas**

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

- A) Window glass lifting regulator defective                      B) Power window switch defective  
C) Motor is defective                      D) Glass door channels unserviceable

**Answer: A) Window glass lifting regulator defective**

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

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

**Answer: B) Prevent accident while turning left and right**

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

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

**Answer: B) Retain the bulb in the socket**

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

- A) Fuse blown off                      B) Relay point stuck up  
C) Tone disc damaged                      D) Low voltage at horn terminal

**Answer: A) Fuse blown off**

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

- A) Prevent damage to windows
- B) Prevent accident
- C) Improve easy handling
- D) Provide effective operation

**Answer: B) Prevent accident**

48. What is the purpose of condenser in the ignition system?

- A) Insulate spark plug electrodes
- B) Open and close the primary circuit
- C) Prevents arcs at the points
- D) Distribute high tension current to spark

**Answer: C) Prevents arcs at the points**

49. Which part of cold start system allow additional air to bypass the throttle plate?

- A) Auxiliary air valve
- B) Thermo time switch
- C) Air supply relay
- D) Oxygen sensor

**Answer: A) Auxiliary air valve**

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

- A) Hand operated wiper
- B) Vacuum operated wiper
- C) Compressed air operated wiper
- D) Hydraulically operated wiper

**Answer: C) Compressed air operated wiper**

51. What is the function of ignition coil?

- A) Connect the primary circuit to ignition switch
- B) Disconnect the secondary circuit to
- C) Step up low voltage to high voltage
- D) Step down high voltage to low voltage

**Answer: C) Step up low voltage to high voltage**

52. What is the cause of electrodes burning in the spark plug?

- A) Plug runs too hot
- B) Incorrect fuel mixture
- C) Plug runs too cold
- D) Incorrect tappet clearance

**Answer: A) Plug runs too hot**

53. What will be the effect of the long heat path travel in the spark plug?

- A) Spark plug will run cooler
- B) Spark plug will run hot
- C) Improper atomisation
- D) Life of spark plug increased

**Answer: B) Spark plug will run hot**

54. Which law states that the induction of electromotive force in any closed circuit is equal to the rate of change of magnetic flux?

- A) Law of resistance
- B) Ohms law
- C) Charles law
- D) Faradays law

**Answer: D) Faradays law**

55. How many spark plugs are ignited at the same time in the distributor less ignition system?

- A) Five
- B) Four
- C) Two
- D) Three

**Answer: C) Two**

56. What is the use of tail light?

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

**Answer: C) Indication to vehicle behind**

57. What causes horn sounds continuously even switch is in off position?

- A) Fuse blown off
- B) Low battery voltage
- C) Relay point stuck up
- D) Incorrectly adjusted relay

**Answer: C) Relay point stuck up**

58. What is the temperature limit set to ON/OFF for the radiator control system?

- A) ON and OFF at below 98 Degree Centigrade and 93 Degree Centigrade
- B) ON and OFF at below 93 Degree Centigrade and 84 Degree Centigrade
- C) ON and OFF at above 98 Degree Centigrade and 93 Degree Centigrade
- D) ON and OFF at above 90 Degree Centigrade and 81 Degree Centigrade

**Answer: A) ON and OFF at below 98 Degree Centigrade and 93 Degree Centigrade**

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

- A) ECM problem
- B) Unregistered ignition key
- C) Blown fuse
- D) Poor transponder in key

**Answer: A) ECM problem**

60. Which type of horn consist electrically driven air pump forces air through plastic trumpet?

- A) Air horn
- B) Electric horn
- C) Wind horn
- D) Wind horn

**Answer: C) Wind horn**

61. What is the advantage of multiplex network?

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

**Answer: D) Determine vehicle tracking system**

62. What is the firing order for four cylinder engine?

- A) 2,3,1,4
- B) 1,2,3,4
- C) 1,3,4,2
- D) 3,1,4,2

**Answer: C) 1,3,4,2**

63. What is the achieved through spark plug end gap design?

- A) Increase the fuel pressure
- B) Improve fuel atomisation
- C) Improve combustion swirl
- D) Helps for the complete ignition

**Answer: C) Improve combustion swirl**

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

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

**Answer: C) Panel light circuit**

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

- A) Peep sound on during starting
- B) Air bag warning light come on during starting and stopping
- C) Warning light on and flash few times and go out during starting
- D) Warning light on with engine running through

**Answer: C) Warning light on and flash few times and go out during starting**

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

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

**Answer: A) Used for parking on the road**

67. Which sensor located in the intake manifold or throttle body?

- A) Oxygen sensor
- B) Mass air flow sensor

- C) Hall effect sensor
- D) Air vertex sensor

**Answer: B) Mass air flow sensor**

68. Which instrument indicate engine RPM in the engine control module?

- A) Galvano meter
- B) Pyno meter
- C) Hydro meter
- D) Tachometer

**Answer: D) Tachometer**

69. Which sensor is used to alert the driver of unseen obstacles?

- A) Torque sensor
- B) Parking sensor
- C) Pressure sensor
- D) Speed sensor

**Answer: B) Parking sensor**

70. Why many engines use spark plugs with tapered seats?

- A) Produce correct alignment
- B) Provide clearance space
- C) Produce good sealing
- D) Helps in easy fitting

**Answer: C) Produce good sealing**

71. What is the purpose of breaker plate in the distributor?

- A) Conduct the ignition surge to the electrode
- B) Distribute high tension surge to ignition coil
- C) Acts as contact breaker
- D) Prevents dirt, carbon into distributor

**Answer: D) Prevents dirt, carbon into distributor**

72. What is the colour of front indicator lamps?

- A) Green
- B) Orange
- C) Red
- D) White

**Answer: B) Orange**