

Duration: 120 Mins

Total Marks: 33

Q.ID: ITISKILL5797HQ

1. 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) Prevents dirt, carbon into distributor
 D) Acts as contact breaker

Answer: C) Prevents dirt, carbon into distributor

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

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

Answer: D) Two

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

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

Answer: B) Fuel injection control system

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

- A) Hall effect sensor
 B) Oxygen sensor
 C) Air vertex sensor
 D) Mass air flow sensor

Answer: D) Mass air flow sensor

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

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

Answer: B) Tachometer

6. What is the purpose of condensor in the ignition system?

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

Answer: B) Prevents arcs at the points

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

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

Answer: B) Auxiliary air valve

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

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

Answer: A) Crank and cam, shaft position sensor

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

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

Answer: A) Produce good sealing

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

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

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

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

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

Answer: C) Plug runs too hot

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

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

Answer: D) Sense engine coolant temperature

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

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

Answer: A) Spark plug will run hot

14. What is the permitted spark plug gap in general?

- A) 2.92 mm
 B) 2.53 mm

- C) 2.03 mm D) 2.83 mm

Answer: C) 2.03 mm

15. Which type of sensor located at the exhaust manifold?

- A) Mass air flow sensor B) Hall effect sensor
C) Oxygen sensor D) Air vertex sensor

Answer: C) Oxygen sensor

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

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

Answer: B) Better starting and acceleration

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

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

Answer: B) Idle air control valve

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

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

Answer: C) Idle speed control system

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

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

Answer: B) Improve combustion swirl

20. What is the function of ignition coil?

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

Answer: B) Step up low voltage to high voltage

21. Which sensor is used to sense vibration?

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

Answer: C) Engine knocking sensor

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

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

Answer: A) Hall effect sensor

23. Where the engine control module installed in the engine?

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

Answer: D) Under side of instrument panel

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

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

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

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

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

Answer: D) Thermo time switch faulty

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

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

Answer: B) More than 200 ohms

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

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

Answer: D) Faradays law

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

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

Answer: A) Parking sensor

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

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

Answer: C) 1,3,4,2

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

- A) Distributor B) Condenser
C) Contact breaker D) Ignition coil

Answer: C) Contact breaker

31. What is the purpose of tachometer?

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

Answer: C) Indicate engine RPM

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

- A) Pressure regulator
- B) Engine hard to start - Hot

- C) Engine produce abnormal noise
- D) Engine cranks but will not start

Answer: B) Engine hard to start - Hot

33. What is the special feature of cold start system?

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

Answer: A) Provide additional fuel during starting
