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Answer Key

Duration: 30 Mins

Total Marks: 33

Q.ID: ITISKILL1304S3

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

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

Answer: A) Faradays law

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

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

Answer: D) More than 200 ohms

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

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

Answer: A) Contact breaker

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

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

Answer: B) 1,3,4,2

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

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

Answer: A) 2.03 mm

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

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

Answer: B) Parking sensor

7. What is the purpose of tachometer?

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

Answer: D) Indicate engine RPM

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

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

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

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

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

Answer: D) Crank and cam, shaft position sensor

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

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

Answer: D) Hall effect sensor

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

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

Answer: A) Mass air flow sensor

12. What is the function of ignition coil?

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

Answer: D) Step up low voltage to high voltage

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

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

Answer: B) Provide additional fuel during starting

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

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

Answer: D) Prevents dirt, carbon into distributor

15. Which sensor is used to sense vibration?

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

Answer: C) Engine knocking sensor

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

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

Answer: B) Idle speed control system

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

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

Answer: A) Engine hard to start - Hot

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

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

Answer: C) Fuel injection control system

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

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

Answer: A) Produce good sealing

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

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

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

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

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

Answer: A) Under side of instrument panel

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

- A) Improve combustion swirl
- B) Increase the fuel pressure

- C) Helps for the complete ignition
- D) Improve fuel atomisation

Answer: A) Improve combustion swirl

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

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

Answer: B) Auxiliary air valve

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

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

Answer: B) Thermo time switch faulty

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

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

Answer: C) Oxygen sensor

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

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

Answer: C) Idle air control valve

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

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

Answer: D) Tachometer

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

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

Answer: C) Prevents arcs at the points

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

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

Answer: D) Plug runs too hot

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

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

Answer: A) Two

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

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

Answer: B) Sense engine coolant temperature

32. 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) Life of spark plug increased

D) Improper atomisation

Answer: B) Spark plug will run hot

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

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

Answer: C) Better starting and acceleration
