

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

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

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

6. 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

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

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

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

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

9. What is the purpose of tachometer?

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

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

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

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

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

12. 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

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

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

14. 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

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

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

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

A) Sense exhaust gas temperature

B) Sense engine coolant temperature

C) Effective fuel distribution achieved

D) Increased thermal efficiency

C) Indicate lubricant temperature

D) Indicate fuel temperature

17. 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 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 93 Degree Centigrade and 84 Degree Centigrade

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

A) Damaged radiator

B) Defective oil pressure

C) Faulty fuel filter

D) Thermo time switch faulty

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

A) Opens and closes the secondary circuit of coil

B) Distribute high tension current from ignition coil to secondary winding

C) Distribute low tension current to ignition coil

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

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

A) Distribute high tension surge to ignition coil

B) Acts as contact breaker

C) Conduct the ignition surge to the electrode

D) Prevents dirt, carbon into distributor

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

A) Idle speed control system

B) Ignition control system

C) Fuel injection control system

D) Fuel pump control system

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

A) 2.03 mm

B) 2.92 mm

C) 2.53 mm

D) 2.83 mm

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

A) Galvano meter

B) Hydro meter

C) Pyno meter

D) Tachometer

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

A) Better starting and acceleration

B) Increased mechanical efficiency

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

A) Distributor

B) Contact breaker

C) Ignition coil

D) Condenser

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

A) Plug runs too cold

B) Incorrect tappet clearance

C) Incorrect fuel mixture

D) Plug runs too hot

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

A) Parking sensor

B) Pressure sensor

C) Speed sensor

D) Torque sensor

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

A) Engine cranks but will not start

B) Engine produce abnormal noise

C) Pressure regulator

D) Engine hard to start - Hot

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

A) Under side of instrument panel

B) Front side of radiator

C) Near the fly wheel

D) In the gear box assembly

30. What is the function of ignition coil?

A) Step up low voltage to high voltage

B) Connect the primary circuit to ignition switch

C) Step down high voltage to low voltage

D) Disconnect the secondary circuit to

31. Which sensor is used to sense vibration?

A) Engine knocking sensor

B) Vehicle speed sensor

C) Hall effect sensor

D) Air vertex sensor

32. 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) Charles law

D) Law of resistance

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

A) Oxygen sensor

B) Thermo time switch

C) Air supply relay

D) Auxiliary air valve