

Duration: 30 Mins

Total Marks: 33

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Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. 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

9. What is the function of ignition coil?

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

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

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

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

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

12. 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

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

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

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

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

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

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

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

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

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

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

18. 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 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 90 Degree Centigrade and 81 Degree Centigrade

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

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

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

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

21. What is the purpose of tachometer?

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

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

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

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

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

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

- A) Parking sensor B) Pressure sensor

- C) Torque sensor D) Speed sensor

25. What is the achived through spark plug end gap design?

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

26. 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) Faradays law
C) Ohms law D) Law of resistance

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

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

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

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

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

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

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

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

31. Which senor is used to sense vibration?

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

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

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

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

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