

Duration: 120 Mins

Total Marks: 33

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

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

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

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

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

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

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

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

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

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

6. What is the purpose of tachometer?

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

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

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

8. 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) Ignition control system  
 D) Oil pump control system

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

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

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

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

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

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

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

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

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

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

14. What is the purpose of condensor 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

15. 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) Charles law
- C) Ohms law
- D) Law of resistance

16. What is the function of ignition coil?

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

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

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

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

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

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

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

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

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

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

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

22. 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

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

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

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

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

C) 2,3,1,4

D) 1,3,4,2

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

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

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

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

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

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

28. 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

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

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

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

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

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

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

32. Which sensor is used to sense vibration?

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

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

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