

Student Name: _____	Roll No: _____
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1. What is the advantage of EFI engine management system?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. What is the function of ignition coil?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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|-----------------------|-----------------------------|
| A) Near the fly wheel | B) In the gear box assembly |
|-----------------------|-----------------------------|

- C) Front side of radiator
D) Under side of instrument panel

17. 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

18. 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 93 Degree Centigrade and 84 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

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

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

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

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

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

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

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

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

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

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

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

25. Which sensor is used to sense vibration?

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

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

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

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

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

28. What is the purpose of tachometer?

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

29. 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

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

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

31. 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

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

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

33. 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) Law of resistance
C) Charles law
D) Ohms law