

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) What type of device is used in a typical idle air control? 1) _____
 - A) DC motor
 - B) Stepper motor
 - C) Pulsator-type actuator
 - D) Solenoid

- 2) Which type of port fuel injection groups the injectors into two groups, with each group firing once per crankshaft revolution? 2) _____
 - A) Gang fired
 - B) Simultaneous double fired
 - C) Sequential fired
 - D) Throttle body injection

- 3) Technician A says that fuel pressure regulators are often located on the return side of the fuel rail. Technician B says that the fuel pressure regulator is located at the fuel tank on vehicles using mechanical returnless systems. Which technician is correct? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) Technician A says that most fuel injection systems use the PCM to control the pulsing of the fuel injectors. Technician B says that most fuel injection systems use the PCM to control the operation of the fuel pump relay. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) All of the following statements are correct EXCEPT _____. 5) _____
 - A) Fuel makes contact with the injector windings
 - B) Fuel cools the injector
 - C) O-rings seal the injector to keep fuel away from the windings
 - D) Dirt and water are more likely to contaminate the injectors if the fuel level is low

- 6) Which sensor is used to calculate the amount of fuel required using the speed density method? 6) _____
 - A) MAP sensor
 - B) TP sensor
 - C) ECT and IAT sensors
 - D) All of these are used

- 7) Which type of port fuel injection fires each injector separately, following the engine firing order? 7) _____
- A) Sequential fired
 - B) Ganged double fire
 - C) Simultaneous double fired
 - D) Throttle body injection
- 8) Technician A says that vehicles with electronic returnless fuel systems use pulse width modulation to power the fuel pump and maintain fuel pressure. Technician B says that the electronic returnless fuel system uses a power transistor to control the fuel pump. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) Technician A says that the port fuel injection injectors operate using 5 volts from the computer. Technician B says that sequential fuel injectors all use a different wire color on the injectors. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Technician A says that the fuel pump relay is usually controlled by the PCM. Technician B says that a TBI injector squirts fuel above the throttle plate. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

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- 2) A
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- 3) C
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- 4) C
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- 5) A
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- 6) D
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- 7) A
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