

Name _____

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

- 1) Which term describes the PCM shutting off fuel injection when the accelerator is pressed all the way down? 1) _____
 - A) Clear flood mode
 - B) Starting mode
 - C) Open loop mode
 - D) Closed loop mode

- 2) 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? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) 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? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) Technician A says that all injectors in a sequential fuel injection system often use the same power wire. Technician B says that each injector in a sequential fuel injection system should have a different ground wire. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Why are some fuel rails rectangular in shape? 5) _____
 - A) Increases fuel pressure
 - B) Helps keep air out of the injectors
 - C) Reduces noise
 - D) Increases the speed of the fuel through the fuel rail

- 6) Which type of port fuel injection groups the injectors into two groups, with each group firing once per crankshaft revolution? 6) _____
 - A) Gang double fired
 - B) Simultaneous double fired
 - C) Sequential fired
 - D) Throttle body injection

- 7) All these are returnless fuel systems EXCEPT _____. 7) _____
- A) electronic returnless fuel system
 - B) mechanical returnless fuel system
 - C) demand delivery system
 - D) All of these are types of returnless systems.
- 8) Which type of port fuel injection fires all the injectors at the same time, once per crankshaft revolution? 8) _____
- A) Simultaneous double fired
 - B) Gang double fired
 - C) Sequential fired
 - D) Throttle body injection
- 9) Which statement is correct? 9) _____
- A) Dirt is most likely to be found near the bottom of the fuel tank.
 - B) Dirt is most likely to float on top of the fuel.
 - C) Throttle body injectors inject fuel below the throttle plate.
 - D) Port fuel injectors inject fuel above the throttle plate.
- 10) What determines the amount of fuel injected when an injector opens? 10) _____
- A) Length of time the injector is open
 - B) The distance the pintle travels (more travel, more fuel)
 - C) The spacing between the pintle and the pintle spring
 - D) The variable diameter of the injector solenoid coil