

Name _____

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

- 1) Which term is used to describe TBI operation where the injector pulses once per each distributor reference pulse? 1) _____
 - A) Synchronized
 - B) Non-synchronized
 - C) Speed density
 - D) Mass airflow

- 2) Which of these fuel injection systems delivers the fuel into the intake manifold? 2) _____
 - A) Port injection
 - B) Throttle body injection
 - C) Returnless injection
 - D) Speed-density

- 3) Which sensor is used to calculate the amount of fuel required using the speed density method? 3) _____
 - A) MAP sensor
 - B) TP sensor
 - C) ECT and IAT sensors
 - D) All of these are used

- 4) Which type of port fuel injection allows for mixture adjustments between the firing of each cylinder? 4) _____
 - A) Sequential
 - B) Ganged
 - C) Simultaneous
 - D) Throttle body

- 5) All these methods can be used to calculate airflow EXCEPT _____. 5) _____
 - A) Load calculation
 - B) Mass airflow
 - C) Speed density
 - D) All of these are methods of calculating the air-fuel mixture.

- 6) Which type of port fuel-injection system uses a fuel temperature and/or fuel-pressure sensor? 6) _____
 - A) All port fuel-injected engines
 - B) TBI units only
 - C) Electronic returnless systems
 - D) Demand delivery systems

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

- 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) Which of these describes a condition that results in more fuel being delivered? 9) _____
- A) Long pulse width
 - B) Short pulse width
 - C) Hot intake air
 - D) Warm engine
- 10) 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? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

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- 3) D
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- 4) A
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- 5) A
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