

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is the purpose of the vacuum-controlled (biased) fuel-pressure regulator on many fuel-injected engines?
  - A. To draw fuel back into the intake manifold through the vacuum hose
  - B. To create an equal pressure drop across the injectors
  - C. To raise the fuel pressure at idle
  - D. To lower the fuel pressure under heavy engine load conditions to help improve fuel economy
  
2. Which sensor has the greatest influence on injector pulse width besides the MAF sensor?
  - A. IAT
  - B. BARO
  - C. ECT
  - D. TP
  
3. Technician A says that the port fuel-injection injectors operate using 5 volts from the computer. Technician B says that electronic fuel injectors use 12 volts to operate. Which technician is correct?
  - A. Technician A only
  - B. Technician B only
  - C. Both Technicians A and B
  - D. Neither Technician A nor B
  
4. Which type of electronic fuel-injection system uses a fuel-temperature and/or fuel-pressure sensor?
  - A. All port fuel-injected engines
  - B. TBI units only
  - C. Electronic returnless systems
  - D. Demand delivery systems
  
5. Which of these is NOT a mode of operation for electronic fuel injection?
  - A. Clear flood
  - B. Open loop
  - C. Closed loop
  - D. Mid loop
  
6. Where is the fuel-pressure regulator located on a vacuum biased port fuel-injection system?
  - A. In the tank
  - B. At the inlet of the fuel rail
  - C. At the outlet of the fuel rail
  - D. Near or on the fuel filter
  
7. What type of device is used to control idle speed?
  - A. ETC system
  - B. Stepper motor
  - C. Either A or B
  - D. Neither A nor B

8. What are the two basic methods used for measuring the amount of air the engine is breathing in, in order to match the correct fuel delivery?

- A. Speed density and mass airflow
- B. Throttle position and engine speed
- C. Engine temperature and barometric pressure
- D. Oxygen sensor voltage and adaptive memory

9. How many sensors are used to determine the base pulse width on a speed-density system?

- A. 1
- B. 2
- C. 3
- D. 4

10. How many sensors are used to determine the base pulse width on a mass airflow system?

- A. 1
- B. 2
- C. 3
- D. 4

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Multiple Choice Quiz A

Answer Key

1. D

2. C

3. B

4. C

5. D

6. C

7. C

8. A

9. D

10. D