

Name: _____ Date: _____

1. What are the three types of returnless fuel-injection systems?
 - A. Speed density, mass airflow, and demand delivery
 - B. Mechanical returnless, electronic returnless, and demand delivery
 - C. Port fuel-injection, throttle body injection, and direct injection
 - D. Sequential, batched, and simultaneous

2. Why are some fuel rails rectangular in shape?
 - 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

3. Which fuel-injection system uses the MAP sensor as the primary sensor to determine the base pulse width?
 - A. Speed density
 - B. Mass airflow
 - C. Demand delivery
 - D. Mechanical returnless

4. During which mode of operation does the PCM determine injector pulse width based on values from the MAF, MAP, TP, ECT, and IAT sensors?
 - A. Clear flood mode
 - B. Open-loop mode
 - C. Closed-loop mode
 - D. Acceleration enrichment mode

5. In closed-loop mode, what is used to modify the base injector pulse width?
 - A. Feedback from the MAF sensor
 - B. Feedback from the oxygen sensor
 - C. Feedback from the TP sensor
 - D. Feedback from the ECT sensor

6. What happens during acceleration enrichment mode?
 - A. The PCM supplies a shorter injector pulse width
 - B. The PCM supplies a longer injector pulse width
 - C. The PCM supplies extra pulses to supply the needed fuel for acceleration
 - D. Both B and C

7. What occurs during deceleration enleanment mode?
 - A. A richer air-fuel mixture is required
 - B. A leaner air-fuel mixture is required
 - C. The injector may be shut off entirely for a short time
 - D. Both B and C

8. What is the effect of a clogged 10-micron filter in some fuel-pressure regulators?

- A. Increased fuel flow
- B. Decreased fuel pressure
- C. Lack of fuel flow
- D. Increased fuel pressure

9. Technician A says that the fuel-pump relay is usually controlled by the PCM. Technician B says that the injector sprays fuel above the throttle plate. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

10. What is the purpose of the fuel shutoff mode?

- A. To prevent the engine from continuing to run after the ignition is turned off
- B. To prevent fuel entirely during periods of rapid deceleration
- C. To maintain engine idle speed at a specified value
- D. Both A and B

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Chapter 75

Multiple Choice Quiz B

Answer Key

1. B

2. C

3. A

4. B

5. B

6. D

7. D

8. C

9. A

10. D