

**Automotive Electrical and Engine Performance 9th Edition**  
**Chapter 34 – Fuel Pumps, Lines, and Filters**  
**Multiple Choice Questions Quiz A**

1. Which of the following components is typically included in a vehicle's fuel delivery system?

- a) Fuel pressure regulator
- b) Exhaust manifold
- c) Throttle body
- d) Muffler

2. The primary purpose of a fuel tank baffle is to:

- a) Prevent fuel theft
- b) Decrease fuel vapor emissions
- c) Increase fuel pressure
- d) Reduce fuel sloshing

3. What is the purpose of an inertia switch in a fuel system?

- a) To maintain fuel pressure during idling
- b) To shut off fuel flow during a collision
- c) To regulate the air-fuel mixture
- d) To prevent fuel from overheating

4. Which of the following materials should NOT be used to replace rigid fuel lines?

- a) Copper tubing
- b) Steel tubing
- c) Nylon tubing
- d) Fuel-resistant rubber hose

5. Onboard Refueling Vapor Recovery (ORVR) systems are designed to:
- a) Improve fuel tank capacity
  - b) Enhance fuel pump efficiency
  - c) Reduce evaporative emissions during refueling
  - d) Increase fuel injection pressure
6. Which type of electric fuel pump uses internal and external gear teeth to pressurize the fuel?
- a) Gerotor pump
  - b) Turbine pump
  - c) Roller cell pump
  - d) Hydrokinetic pump
7. A return-style fuel system commonly recirculates what percentage of the fuel back to the tank at idle?
- a) 10%
  - b) 25%
  - c) 50%
  - d) 80%
8. Fuel filters in returnless fuel systems are typically designed to:
- a) Be replaced every 10,000 miles
  - b) Last for the vehicle's life without replacement
  - c) Trap particles smaller than 1 micron
  - d) Require replacement every 50,000 miles
9. Which is a common symptom if a fuel pump relay fails in a General Motors vehicle?
- a) Excess fuel pressure
  - b) Fuel returns to the tank excessively
  - c) Engine stalls without restarting
  - d) Overheating of the fuel tank

10. A modular fuel sender assembly typically includes:

- a) A fuel pump, jet pump, and fuel pressure sensor
- b) A fuel level sensor, turbine pump, and jet pump
- c) A fuel injector, roller cell pump, and level sensor
- d) An accumulator, turbine pump, and fuel return line

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**Answer Key Quiz A**

**Correct Answers:**

1. a
2. d
3. b
4. a
5. c
6. a
7. d
8. b
9. c
- 10 b