

Name _____

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

- 1) Where is the fuel injected in an engine equipped with gasoline direct injection? 1) _____
 - A) Into the intake manifold, near the intake valve
 - B) Directly into the combustion chamber
 - C) Above the intake port
 - D) In the exhaust port

- 2) A gasoline direct injection system can be used to start an engine without the need for a starter motor. 2) _____
 - A) True
 - B) False

- 3) The high pressure fuel pump pressure is regulated by using _____. 3) _____
 - A) An electric pressure control valve
 - B) A vacuum biased regulator
 - C) A mechanical regulator at the inlet to the fuel rail
 - D) A non-vacuum biased regulator

- 4) What GDI operating mode is used to burn sulfur from the NO_x catalyst? 4) _____
 - A) Stratified mode
 - B) Homogeneous stratified mode
 - C) Stratified heating mode
 - D) None of these

- 5) The fuel injectors on a GDI engine operate under a fuel pressure of about _____. 5) _____
 - A) 35 to 45 PSI
 - B) 90 to 150 PSI
 - C) 500 to 2900 PSI
 - D) 2000 to 5000 PSI

- 6) Some GDI systems can fire the injector more than once per injection event. 6) _____
 - A) True
 - B) False

- 7) The fuel pump inside the fuel tank on a vehicle equipped with gasoline direct injection produces about what fuel pressure? 7) _____
 - A) 5 to 10 PSI
 - B) 10 to 20 PSI
 - C) 20 to 40 PSI
 - D) 50 to 60 PSI

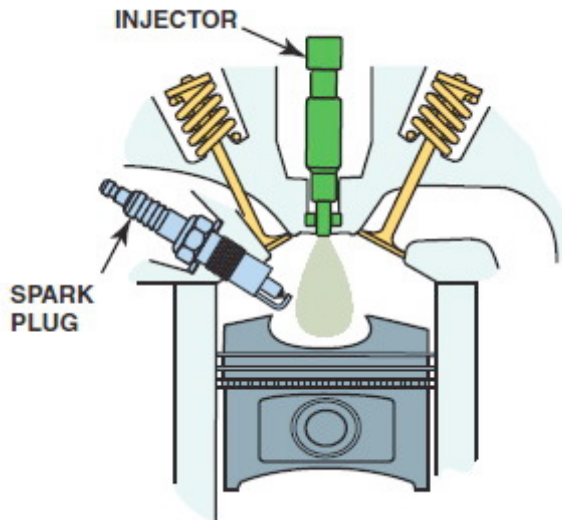
8) A characteristic of GDI systems that could cause a customer concern is _____.

8) _____

- A) The high fuel pressure causes the injectors to be noisy
- B) A slight fuel smell when idling
- C) Harder to start when cold
- D) GDI engines have noisy valves

9) This illustration shows a _____ type of combustion chamber.

9) _____



- A) Wall-guided
- B) Spray-guided
- C) Tumble-guided
- D) Swirl-guided

10) The GDI injector is held open with 50 to 90 volts.

10) _____

- A) True
- B) False

Answer Key

Testname: ENGINEPERF5_28A

1) B

Page Ref: 436

2) A

Page Ref: 440

3) A

Page Ref: 437

4) C

Page Ref: 439

5) C

Page Ref: 438

6) A

Page Ref: 438

7) D

Page Ref: 437

8) A

Page Ref: 441

9) B

Page Ref: 439

10) B

Page Ref: 438