

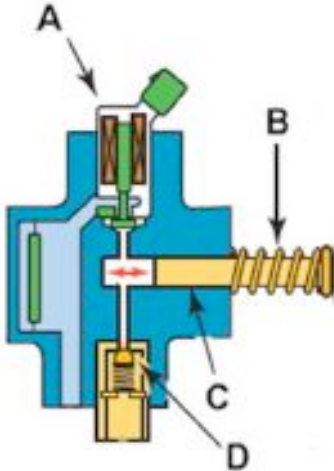
Name \_\_\_\_\_

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

- 1) Gasoline direct injection (GDI) is also known as \_\_\_\_\_. 1) \_\_\_\_\_
  - A) SIDI
  - B) EFI
  - C) UIDI
  - D) DI
  
- 2) Where is the fuel injected in an engine equipped with gasoline direct injection? 2) \_\_\_\_\_
  - 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
  
- 3) When compared to a port fuel injected engine, a GDI engine will have a \_\_\_\_\_ compression ratio. 3) \_\_\_\_\_
  - A) higher
  - B) lower
  - C) reversed
  - D) interrupted
  
- 4) GDI fuel injectors operate under a pressure of about \_\_\_\_\_. 4) \_\_\_\_\_
  - A) 35 to 45 PSI
  - B) 90 to 150 PSI
  - C) 500 to 2,900 PSI
  - D) 2,000 to 5,000 PSI
  
- 5) An engine equipped with GDI may have up to a \_\_\_\_\_ percent improvement in fuel economy. 5) \_\_\_\_\_
  - A) 10
  - B) 25
  - C) 50
  - D) 6
  
- 6) The high-pressure fuel pump pressure is regulated by using \_\_\_\_\_. 6) \_\_\_\_\_
  - 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
  
- 7) The GDI high pressure fuel pump uses a single-barrel piston plunger that is driven by \_\_\_\_\_. 7) \_\_\_\_\_
  - A) a square-lobed cam
  - B) a single flat sided cam
  - C) a three-lobed cam
  - D) an electric motor

8) Which component of this GDI high pressure pump is the pressure regulator?

8) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) D

9) A lack of power from an engine equipped with gasoline direct injection could be due to \_\_\_\_\_.

9) \_\_\_\_\_

- A) noisy injectors
- B) carbon on the injectors
- C) carbon on the intake valves
- D) both B and C

10) All of the following are advantages of gasoline direct injection EXCEPT \_\_\_\_\_.

10) \_\_\_\_\_

- A) improved fuel economy
- B) higher engine efficiency
- C) able to use lower-octane gasoline
- D) decreased throttle response

## Answer Key

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1) A

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2) B

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3) A

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4) C

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5) B

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6) A

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7) C

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8) A

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9) D

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10) D

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