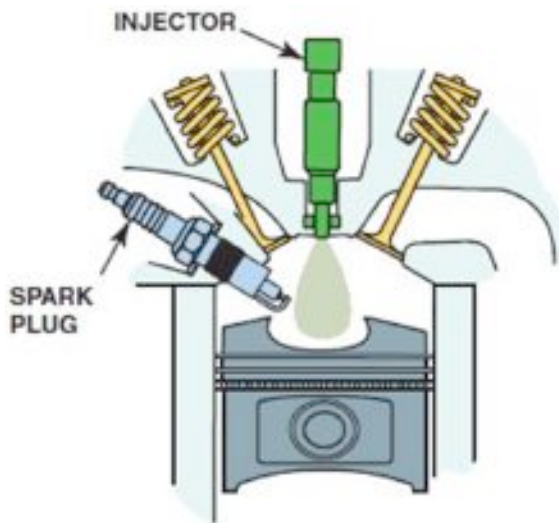


Name \_\_\_\_\_

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

- 1) What GDI operating mode is used to burn sulfur from the NO<sub>x</sub> catalyst? 1) \_\_\_\_\_  
A) Stratified mode  
B) Homogeneous stratified mode  
C) Stratified heating mode  
D) None of these
  
- 2) GDI equipped engines have a higher efficiency due to a \_\_\_\_\_ compression ratio. 2) \_\_\_\_\_  
A) lower  
B) higher  
C) colder  
D) related
  
- 3) Which mode of operation results in a richer air-fuel mixture near the spark plug? 3) \_\_\_\_\_  
A) Stoichiometric  
B) Homogeneous  
C) Stratified  
D) Knock protection
  
- 4) This illustration shows a \_\_\_\_\_ type of combustion chamber. 4) \_\_\_\_\_



- A) wall-guided
- B) spray-guided
- C) tumble-guided
- D) swirl-guided

- 5) Gasoline direct injection (GDI) is also known as \_\_\_\_\_. 5) \_\_\_\_\_  
A) SIDI  
B) EFI  
C) UIDI  
D) DI
- 6) The high-pressure fuel pumps used in gasoline direct-injection (GDI) systems are powered by \_\_\_\_\_ 6) \_\_\_\_\_  
A) electricity (DC motor)  
B) electricity (AC motor)  
C) the camshaft  
D) the crankshaft
- 7) All of the following are disadvantages of gasoline direct injection EXCEPT \_\_\_\_\_. 7) \_\_\_\_\_  
A) higher cost  
B) less need for extra fuel for acceleration  
C) NOx storage catalyst may be needed  
D) more components compared to port fuel injection systems
- 8) When the fuel pressure regulator is deactivated, the fuel pressure defaults to \_\_\_\_\_. 8) \_\_\_\_\_  
A) high pressure mode  
B) low pressure mode  
C) acceleration mode  
D) 60 PSI
- 9) The fuel injectors used on a gasoline direct injection system are pulsed using what voltage? 9) \_\_\_\_\_  
A) 12 to 14 V  
B) 50 to 90 V  
C) 100 to 110 V  
D) 200 to 220 V
- 10) GDI high-pressure fuel lines must be \_\_\_\_\_ once they are removed for service. 10) \_\_\_\_\_  
A) polished  
B) reformed  
C) lubricated  
D) replaced