TIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.		
1) A may be used to help locate high-pressure fuel leaks.	1)	
A) Glove		
B) Piece of cardboard		
C) Shop towel		
D) Rubber hose		
2) What is the purpose and function of the volume control valve?	2)	
A) It controls the volume of fuel from the low-pressure system into the high-pressure system.		
B) It is controlled by the powertrain control module.		
C) In the absence of a signal from the powertrain control module, it defaults to wide open	١.	
D) All of the above		
3) The high-pressure fuel system may generate as much as 29000 PSI. Fuel under this high	3)	
pressure can, causing injury or death.		
A) Penetrate skin		
B) Self-ignite		
C) Create a toxic gas		
D) All of these are possible		
4) The cascade overflow valve is used to	4)	
A) Direct fuel to the pump lubrication circuit		
B) Regulate the fuel pressure to the volume control valve		
C) Divert excess fuel to the tank via the return line		
D) All of the above		
5) The fuel rail temperature sensor is used to	5)	
A) Calculate injector pulse width		
B) Measure fuel velocity		
C) Both A and B		
D) Neither A nor B		
6) Which of these injector types has a faster reaction time?	6)	
A) Piezoelectric		
B) Solenoid		

- 7) After replacing an injector, the technician forgot to reprogram the engine controller. What problem might be noticed by the customer?
 - A) A rough running engine
 - B) A no-start condition

C) Direct mechanical

D) Optical

- C) Either of these
- D) Neither of these

7) _____

8) The high-pressure fuel pump in a common rail diesel fuel system may use a	8)
piston-type pump.	
A) Single	
B) Multiple	
C) Either A or B	
D) Neither A nor B	
9) Which of the following is NOT an advantage of the high-pressure common rail injection	9)
system?	
A) Higher injection pressure	
B) More injection events per combustion cycle	
C) The ability to vary injection events with engine load and speed	
D) The cost of the high-pressure fuel system components	
10) What is the main function of the high-pressure rail on a common rail diesel engine?	10)
A) Holds the cylinder head down	
B) Keeps oil from leaking out of the valve covers	
C) Reduces engine noise	
D) Distributes pressurized fuel to the injectors	

Answer Key

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- 1) B
 - Page Ref: 152
- 2) D
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- 3) A
 - Page Ref: 152
- 4) D
 - Page Ref: 148
- 5) C
 - Page Ref: 144
- 6) A
- Page Ref: 150
- 7) A
 - Page Ref: 153
- 8) C
 - Page Ref: 146
- 9) D
 - Page Ref: 143
- 10) D
 - Page Ref: 144