

Name _____

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

- 1) Which of these tools is best to check whether the PCM is pulsing an injector? 1) _____
 - A) Noid light
 - B) Test light
 - C) Digital multimeter
 - D) Analog multimeter

- 2) All of the following statements are correct EXCEPT _____. 2) _____
 - A) Fuel injectors on a gang fire system are wired in series
 - B) The resistance of a group of injectors that fire at the same time can be tested together
 - C) Lower than specified injector resistance means the injector is shorted
 - D) None of these

- 3) Most port fuel-injected engines operate on how much fuel pressure? 3) _____
 - A) 3 to 5 psi (21 to 35 kPa)
 - B) 9 to 13 psi (62 to 90 kPa)
 - C) 35 to 45 psi (240 to 310 kPa)
 - D) 55 to 65 psi (380 to 450 kPa)

- 4) Technician A says that the fuel system should be tested in a no-start condition. Technician B says that low fuel pressure can cause a tip-in hesitation. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Technician A says that all the fuel injectors on an engine should have the same electrical resistance. 5) _____
Technician B says that the difference between any two injectors should be less than 2 ohms.
Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 6) How much voltage is generally available to fuel injectors (most vehicles)? 6) _____
 - A) Battery voltage
 - B) 5 Volts DC
 - C) 7 Volts DC
 - D) 10 Volts DC

- 7) During a fuel injector pressure drop test, the difference between any two fuel injectors should not exceed _____. 7) _____
- A) 1.5 PSI
 - B) 15 PSI
 - C) 0.4 PSI
 - D) 14.7 PSI
- 8) In a typical port fuel injection system, which injectors are most subject to becoming restricted? 8) _____
- A) Any of them equally
 - B) The injectors at the end of the rail on a returnless system
 - C) The injectors at the bends in the rail
 - D) Either B or C
- 9) The fuel pressure drops rapidly when the engine is turned off. Technician A says that one or more injectors could be leaking. Technician B says that a defective check valve in the fuel pump could be the cause. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Which term describes the electrical current flow in the opposite direction when an injector coil is energized? 10) _____
- A) Inductive reactance
 - B) Magnetic induction
 - C) Electromagnetic force
 - D) Voltage drop