

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

## Answer Key

Testname: AT6\_83B

1) A

Page Ref: 964

2) A

Page Ref: 966

3) C

Page Ref: 963

4) C

Page Ref: 972

5) A

Page Ref: 965

6) A

Page Ref: 968

7) A

Page Ref: 967

8) D

Page Ref: 966

9) C

Page Ref: 964

10) A

Page Ref: 967