

Name \_\_\_\_\_

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

- 1) Which of the following would cause carbon fouled spark plugs? 1) \_\_\_\_\_
  - A) Rich fuel mixture
  - B) Defective or missing valve stem seals
  - C) Broken piston rings
  - D) Defective valve cover gasket
  
- 2) Which of the following could cause oil fouled spark plugs? 2) \_\_\_\_\_
  - A) Defective valve stem seals
  - B) Weak ignition system output
  - C) Low engine temperature
  - D) Short trips or excessive idling
  
- 3) Technician A says that vehicles equipped with an ASD relay only have power at the ignition coil when the engine is cranking or running. Technician B says that a defective ASD relay could cause a no-start condition. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) Which sensor produces a square wave signal? 4) \_\_\_\_\_
  - A) Magnetic sensor
  - B) Hall effect sensor
  - C) Optical sensor
  - D) Both B and C
  
- 5) Which statement below is correct? 5) \_\_\_\_\_
  - A) A spark tester requires more voltage than a spark plug to fire
  - B) A normal spark plug requires more voltage than a spark tester to fire
  - C) Low resistance in a spark plug wire could cause a no-start condition
  - D) A defective ignition wire will never cause a no-spark condition
  
- 6) The following statements are all correct EXCEPT \_\_\_\_\_. 6) \_\_\_\_\_
  - A) Resistance of the primary ignition coil windings should be infinite
  - B) Voltage should be available on the positive wire at the ignition coil when cranking the engine
  - C) A test light connected to the negative wire at the ignition coil should blink when cranking the engine
  - D) An ignition coil can be tested for resistance of the primary and secondary windings

- 7) Typical secondary coil resistance specifications usually range from \_\_\_\_\_ ohms. 7) \_\_\_\_\_  
A) 100 to 450  
B) 500 to 1500  
C) 1 to 3  
D) 6000 to 30,000
- 8) Typical primary coil resistance specifications usually range from \_\_\_\_\_ ohms. 8) \_\_\_\_\_  
A) 100 to 450  
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- 9) The \_\_\_\_\_ sends a pulse signal to an electronic ignition module. 9) \_\_\_\_\_  
A) Ballast resistor  
B) Pickup coil  
C) Ignition coil  
D) Condenser
- 10) Technician A says that an engine will not start and run if the ignition coil is tracked. Technician B says that the engine will not start if the crankshaft position sensor fails. Which technician is correct? 10) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

## Answer Key

Testname: ENGINEPERF5\_17A

- 1) A  
Page Ref: 292
- 2) A  
Page Ref: 292
- 3) C  
Page Ref: 282
- 4) D  
Page Ref: 284
- 5) A  
Page Ref: 281
- 6) A  
Page Ref: 282
- 7) D  
Page Ref: 282
- 8) C  
Page Ref: 282
- 9) B  
Page Ref: 283
- 10) B  
Page Ref: 281, 286