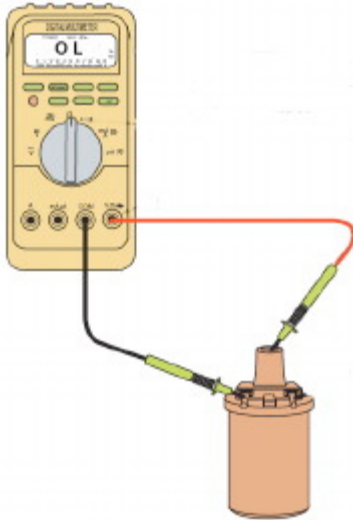


Name \_\_\_\_\_

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

- 1) A mist of water from a spray bottle can be used to find defective secondary ignition components. 1) \_\_\_\_\_  
A) True  
B) False

- 2) A coil is being checked, with the following results. What does the reading mean? 2) \_\_\_\_\_



- A) The coil is overloaded  
B) The coil primary is open  
C) The coil secondary is open  
D) Not enough information
- 3) Technician A says that primary windings should have higher resistance. Technician B says that secondary windings should have higher resistance. Which technician is correct? 3) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) Typical secondary coil resistance specifications usually range from \_\_\_\_\_ ohms. 4) \_\_\_\_\_  
A) 100 to 450  
B) 500 to 1500  
C) 1 to 3  
D) 6000 to 30,000

- 5) All of the following statements are correct EXCEPT \_\_\_\_\_. 5) \_\_\_\_\_
- A) Testing an ignition coil for resistance will always indicate its condition
  - B) Resistance tests may not reflect the actual performance conditions of an ignition coil
  - C) Current ramping can be used to test for current limits and charging rise time of the ignition circuit
  - D) A digital storage oscilloscope is used to perform current ramping tests
- 6) All of the following statements are correct EXCEPT \_\_\_\_\_. 6) \_\_\_\_\_
- A) Crankshaft speed and position sensors only affect the ignition system
  - B) Defective crankshaft sensors may cause the fuel system to not operate correctly
  - C) Crankshaft sensors may be either magnetic pickup sensors or Hall-effect sensors
  - D) An ignition module should be replaced if it is not switching the ground circuit to the coil or supplying the coil with battery voltage
- 7) The following statements are all correct EXCEPT \_\_\_\_\_. 7) \_\_\_\_\_
- 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
- 8) 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? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) Which of the following would cause carbon fouled spark plugs? 9) \_\_\_\_\_
- A) Rich fuel mixture
  - B) Defective or missing valve stem seals
  - C) Broken piston rings
  - D) Defective valve cover gasket

10) What testing device is shown in this illustration?

10) \_\_\_\_\_



- A) Spark tester
- B) Spark meter
- C) Gauss gauge
- D) Ground tester

## Answer Key

Testname: ENGINEPERF5\_17B

- 1) A  
Page Ref: 294
- 2) C  
Page Ref: 283
- 3) B  
Page Ref: 282
- 4) D  
Page Ref: 282
- 5) A  
Page Ref: 286
- 6) A  
Page Ref: 288
- 7) A  
Page Ref: 282
- 8) C  
Page Ref: 282
- 9) A  
Page Ref: 292
- 10) A  
Page Ref: 281