

Name \_\_\_\_\_

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

- 1) Technician A says that an engine will likely miss under load if the ignition coil is tracked. Technician B says that one wire of a waste spark coil must be grounded. Which technician is correct? 1) \_\_\_\_\_
- A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician
- 2) A compression-sensing ignition system uses a \_\_\_\_\_ type of ignition 2) \_\_\_\_\_
- A) Distributor
  - B) Coil-on-plug
  - C) Waste spark
  - D) All of the above
- 3) The use of a compression-sensing ignition system allows the engineers to eliminate the \_\_\_\_\_ sensor. 3) \_\_\_\_\_
- A) Crankshaft position
  - B) Knock
  - C) Throttle position
  - D) Cam position
- 4) Ignition coil primary resistance is usually \_\_\_\_\_ ohms. 4) \_\_\_\_\_
- A) Zero
  - B) 150-1500
  - C) Less than 1 to 3
  - D) 6,000-30,000
- 5) The primary (low-voltage) ignition system must be working correctly before any spark occurs from an ignition coil. Which of these component is NOT in the primary ignition circuit? 5) \_\_\_\_\_
- A) Spark plug wiring
  - B) Ignition module (igniter)
  - C) Pickup coil (pulse generator)
  - D) Ignition switch
- 6) When setting the ignition timing on a coil-on-plug ignition system, the technician must first \_\_\_\_\_. 6) \_\_\_\_\_
- A) Disconnect the SPOUT connector (Ford vehicles)
  - B) Loosen the distributor lock plate
  - C) Loosen the crankshaft position sensor bolts
  - D) None of these; the timing cannot be adjusted

7) Technician A says to use a normal spark plug when checking for spark. Technician B says that a spark tester should be used to check for spark. Which technician is correct? 7) \_\_\_\_\_

A) Technician A  
 B) Technician B  
 C) Both technicians  
 D) Neither technician

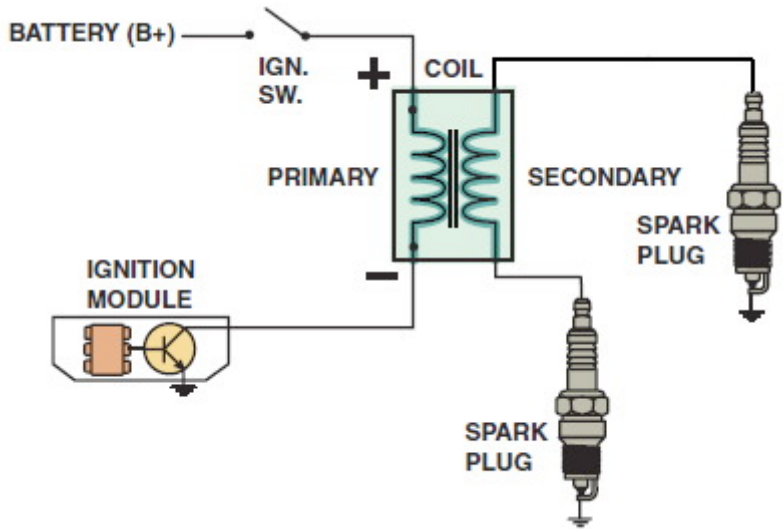
8) The ignition module has direct control over the firing of the coil(s) of an ignition system. Which component (s) triggers or controls the module? 8) \_\_\_\_\_

A) Pickup coil  
 B) Computer  
 C) Crankshaft sensor  
 D) All of the above

9) Which of these components sends a pulse signal to an electronic ignition module? 9) \_\_\_\_\_

A) Resistor  
 B) Pickup coil  
 C) Ignition coil  
 D) Coil wire

10) Identify the type of ignition system shown in this diagram. 10) \_\_\_\_\_



- A) Capacitor discharge system  
 B) Waste spark ignition system  
 C) Coil-on-plug ignition system  
 D) Distributor ignition system

## Answer Key

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1) A

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2) C

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3) D

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4) C

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5) A

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6) D

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7) B

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8) D

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9) B

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10) B

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