

Name _____

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

- 1) The primary (low-voltage) ignition system must be working correctly before any spark occurs from a coil. Which component is NOT in the primary ignition circuit? 1) _____
 - A) Spark plug wires
 - B) Ignition module
 - C) Pick up coil
 - D) Ignition switch

- 2) Technician A says that a two-wire COP system uses the PCM to trigger the coil. Technician B says that a three-wire COP system has an ignition module built into the coil assembly. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) The ignition module has direct control over the firing of the coil(s) of an EI system. Which component(s) triggers (controls) the module? 3) _____
 - A) Pickup coil
 - B) Computer
 - C) Crankshaft sensor
 - D) All of the above

- 4) Which statement below is correct? 4) _____
 - A) Coil on plug systems use one ignition coil per cylinder.
 - B) All coil on plug systems require ignition wires.
 - C) Ignition control circuits cannot sense the voltage required to fire a spark plug.
 - D) It is not possible to control the ignition timing for each cylinder separately.

- 5) A reluctor is a _____. 5) _____
 - A) type of sensor used in the secondary circuit
 - B) notched ring or pointed wheel
 - C) type of optical sensor
 - D) type of Hall-effect sensor

- 6) Technician A says that the ignition timing cannot be adjusted on waste spark ignition systems. Technician B says that most waste spark systems use a crankshaft position sensor. Which technician is correct? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 7) Technician A says that the primary and secondary ignition systems are never connected. 7) _____
Technician B says that the primary and secondary windings are connected in some ignition coils.
Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) An ion-sensing ignition system allow the ignition system itself to be able to _____. 8) _____
- A) detect misfire
 - B) detect spark knock
 - C) detect rich or lean air-fuel mixture
 - D) all of the above
- 9) The pulse generator _____. 9) _____
- A) fires the spark plug directly
 - B) signals the electronic control unit (module)
 - C) signals the computer that fires the spark plug directly
 - D) is used as a tachometer reference signal by the computer and has no other function
- 10) Technician A says that a waste spark ignition system fires two spark plugs at the same time. 10) _____
Technician B says that the waste spark ignition system uses ignition coils connected to
companion cylinders. Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

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) A

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5) B

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6) C

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7) B

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8) D

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9) B

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10) C

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