

Name \_\_\_\_\_

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

- 1) The pulse generator \_\_\_\_\_. 1) \_\_\_\_\_
  - 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
  
- 2) Because of \_\_\_\_\_, an ignition coil cannot be fully charged (reach magnetic saturation) until after a delay of about 10 milliseconds. 2) \_\_\_\_\_
  - A) voltage drop across the ignition switch and related wiring
  - B) resistance in the coil windings
  - C) inductive reactance
  - D) saturation
  
- 3) How many ignition coils should you expect to find on a V6 engine using a waste spark system? 3) \_\_\_\_\_
  - A) Three
  - B) Two
  - C) One
  - D) Six
  
- 4) Coil polarity is determined by the \_\_\_\_\_. 4) \_\_\_\_\_
  - A) direction of the coil windings
  - B) turns ratio
  - C) direction of lamination
  - D) saturation direction
  
- 5) HEI and EIS are examples of \_\_\_\_\_. 5) \_\_\_\_\_
  - A) waste-spark systems
  - B) coil-on-plug systems
  - C) distributor ignition systems
  - D) pickup coil types
  
- 6) The ignition system pickup coil or trigger is usually electrically connected to the \_\_\_\_\_. 6) \_\_\_\_\_
  - A) ignition module
  - B) ignition coil
  - C) distributor cap
  - D) rotor
  
- 7) A waste-spark-type ignition system \_\_\_\_\_. 7) \_\_\_\_\_
  - A) fires two spark plugs at the same time
  - B) fires one spark plug with reverse polarity
  - C) fires one spark plug with straight polarity
  - D) All of the above

- 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) A reluctor is a \_\_\_\_\_. 9) \_\_\_\_\_
- 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
- 10) A compression-sensing ignition is what type? 10) \_\_\_\_\_
- A) Distributor A only
  - B) Waste spark
  - C) Coil-on-plug
  - D) Any of the above

## Answer Key

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1) B

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2) C

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3) A

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4) A

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5) C

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6) A

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7) D

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8) D

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9) B

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10) C

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