Automotive Technology 7th Edition
Chapter 68
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary function of the knock sensor?
A. To advance the ignition timing
B. To detect engine detonation
C. To measure engine temperature
D. To control fuel injection

2. What is the waveform from a knock sensor used for during a spark knock event?
A. To advance the ignition timing
B. To retard the ignition timing
C. To shut down the engine
D. To increase fuel injection

3. Which part of the spark plug is insulated?
A. Metal shell
B. Center electrode
C. Side electrode
D. Ceramic insulator

4. What is the heart of any ignition system?
A. Spark plug
B. Ignition switch
C. Ignition coil
D. Ignition module

5. How is a high-voltage spark created in the ignition system?
A. By electromagnetic repulsion
B. By electromagnetic induction
C. By direct battery voltage
D. By resistive heating

6. Which of the following is a type of Electronic Ignition (EI) system?
A. Waste-spark system
B. Distributor system
C. Point-type system
D. Camshaft ignition system

7. What does a Hall-effect switch require to generate an output or signal voltage?
A. High current
B. Mechanical movement
C. Heat
D. Magnetic field

8. What is the purpose of the steel lamination used in an E coil?
A. To reduce the coil's weight
B. To insulate the coil windings
C. To improve the coil's appearance
D. To increase the magnetic field strength

9. In a point-type ignition system, what was the role of the distributor cam?
A. To generate voltage
B. To open and close the points
C. To distribute spark to the spark plugs
D. To regulate engine speed

10. Which of the following is NOT a term used to describe a Coil-on-plug (COP) ignition system?
A. Coil-by-plug
B. Coil-near-plug
C. Coil-below-plug
D. Coil-over-plug

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Answer Key

1. B

2. B

3. D

4. C

5. B

6. A

7. D

8. D

9. B

10. C