

Name: _____

Date: _____

1. What is the primary concern when installing or servicing spark plug wires?
 - A. Physical wear and tear
 - B. Electromagnetic interference
 - C. Voltage drop
 - D. Resistance mismatch

2. What does Lenz's law state about self-induced voltage?
 - A. It amplifies the current that produces it.
 - B. It opposes the current that produces it.
 - C. It stabilizes the current that produces it.
 - D. It has no effect on the current that produces it.

3. How are magnetic lines of force oriented in a bar magnet?
 - A. They exit from the south pole and enter the north pole.
 - B. They are concentrated in the center of the magnet.
 - C. They exit from the north pole and enter the south pole.
 - D. They are evenly distributed throughout the magnet.

4. What happens when unlike magnetic poles are placed close together?
 - A. They repel each other.
 - B. They have no effect on each other.
 - C. They attract each other.
 - D. They neutralize each other.

5. What is the process of creating a magnet using a magnetic field called?
 - A. Magnetic conduction
 - B. Magnetic induction
 - C. Magnetic transformation
 - D. Magnetic generation

6. What is the term for the magnetism retained by a metal after being removed from a magnetic field?
 - A. Permanent magnetism
 - B. Induced magnetism
 - C. Residual magnetism
 - D. Static magnetism

7. How do two like poles of a magnet interact when placed close together?
 - A. They attract each other.
 - B. They repel each other.
 - C. They neutralize each other.
 - D. They have no effect on each other.

8. What is the primary function of a relay in an electromagnetic system?

- A. To act as an electromagnetic switch
- B. To amplify current
- C. To store energy
- D. To reduce electromagnetic interference

9. How can electromagnetic interference (EMI) be reduced?

- A. By using a capacitor
- B. By increasing the current flow
- C. By reducing the voltage
- D. By using a larger coil

10. An ignition coil operates using which principle(s)?

- A. Electromagnetic induction
- B. Self-induction
- C. Mutual induction
- D. All of the above

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Chapter 44

Multiple Choice Quiz A

Answer Key

1. B

2. B

3. C

4. C

5. B

6. C

7. B

8. A

9. A

10. D