

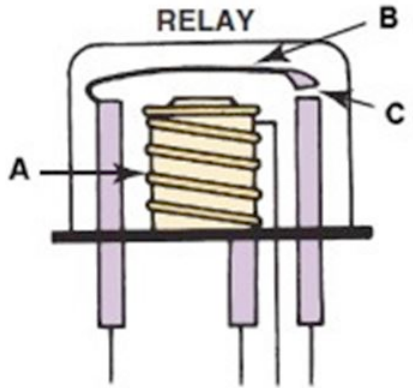
Name \_\_\_\_\_

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

- 1) Magnetic field strength is measured in \_\_\_\_\_. 1) \_\_\_\_\_
  - A) Ampere-turns
  - B) Flux
  - C) Density
  - D) Coil strength
  
- 2) Technician A says that magnetism can cause electric current to flow in a conductor. Technician B says that magnetic lines of flux can never penetrate rubber insulation on a conductor. Which technician is correct? 2) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 3) Technician A says that magnetic lines of force can be seen by placing iron filings on a piece of paper and then holding them over a magnet. Technician B says that the effects of magnetic lines of force can be seen using a compass. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) The conventional theory for current flow is being used to determine the direction of magnetic lines of force. Technician A says that the left-hand rule should be used. Technician B says that the right-hand rule should be used. Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) Where is the force of magnetic lines strongest in a bar magnet? 5) \_\_\_\_\_
  - A) At each end
  - B) In the middle of the magnet
  - C) Only at the north pole of the magnet
  - D) None of these
  
- 6) Unlike magnetic poles \_\_\_\_\_ and like magnetic poles \_\_\_\_\_. 6) \_\_\_\_\_
  - A) Repel; attract
  - B) Attract; repel
  - C) Repel; repel
  - D) Attract; attract

7) Which part of this relay is the low current, control circuit?

7) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) None of these

8) Which term describes current flow produced in a complete circuit when a magnetic field is moved back and forth across the circuit path?

8) \_\_\_\_\_

- A) Electromagnetic induction
- B) Electromagnetic reluctance
- C) Magnetic potential
- D) None of these

9) Magnetic lines of flux flow very easily through objects with high reluctance.

9) \_\_\_\_\_

- A) True
- B) False

10) Which of these electromagnetic devices is used to control high amperage circuits (50 amps or more)?

10) \_\_\_\_\_

- A) Spark plug
- B) Solenoid
- C) Relay
- D) Ammeter

## Answer Key

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1) A

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2) A

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3) C

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4) B

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5) A

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6) B

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7) A

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8) A

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9) B

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10) B

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