

Electricity and Magnetism

Part I Vocabulary

Match each term in Column B with its meaning in Column A.

Column A

- 1. Material that resists but doesn't stop the flow of electric current
- 2. Flow of electric charges
- 3. Space around a magnet where the force of the magnet acts
- 4. Supplies energy to move charges through a circuit
- 5. Measurement of an object's extra positive or negative particles
- 6. Object that attracts things made of iron or steel
- 7. Space around an object where electric forces occur
- 8. Ends of a magnet
- 9. Path made for an electric current
- 10. Material that electric current can pass through easily
- 11. Arrangement of wire wrapped around a core
- 12. Material that electric current cannot easily pass through
- 13. Circuit with one path for electric current
- 14. Charge that stays on an object
- 15. Circuit with more than one path for electric current

Column B

- A charge
- B static electricity
- C electric field
- D electric current
- E circuit
- F electric cell
- G conductor
- H insulator
- I resistor
- J series circuit
- K parallel circuit
- L magnet
- M magnetic poles
- N magnetic field
- O electromagnet

Part II Science Concepts and Understanding

Write the letter of the best choice.

____ 16. An object has a ____ charge if it has more negative particles than positive particles.

- A positive C neutral
- B negative D large

____ 17. When two objects both have positive charges, the objects —

- F attract each other
- G exchange negative particles
- H repel each other
- J neutralize each other

____ 18. Copper wire in a circuit ____ electricity.

- A resists C conducts
- B insulates D energizes

____ 19. A bar magnet's pull is strongest —

- F at the S pole H at both poles
- G at the N pole J in the middle

____ 20. Magnets attract each other at —

- A their middles C only the S poles
- B only the N poles D opposite poles