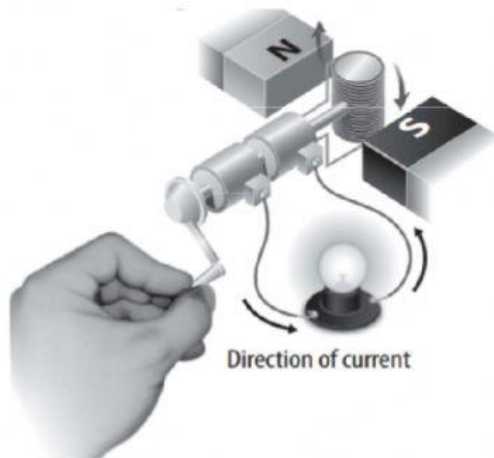


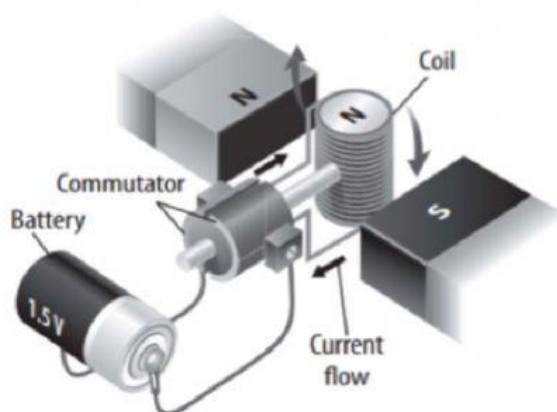
Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- ____ 6. A material that conducts electricity under certain conditions only is a(n)
- a. semiconductor.
 - b. insulator.
 - c. vacuum tube.
 - d. conductor.



- ____ 7. What kind of energy are you providing as you turn the crank on a simple electric generator?
- a. mechanical
 - b. potential
 - c. electrical
 - d. magnetic
- ____ 8. Electromagnetic waves are produced by ____.
- a. magnetic fields
 - b. electromagnetic energy
 - c. charged particles in motion
 - d. positive and negative charges
- ____ 9. The function of a lightning rod is to
- a. make an object lighter.
 - b. prevent short circuits in a building's wiring.
 - c. protect a building from damage due to lightning.
 - d. produce lightning.
- ____ 10. The region around a magnet where the magnetic forces act is the
- a. magnetic attraction
 - b. magnetic field
 - c. electromagnetic
 - d. magnetic pole



- ____ 11. What makes an electric motor spin?
- a. The permanent magnet and the electromagnet have no effect on the spinning of the motor.
 - b. The permanent magnet and the electromagnet continuously attract and repel each other.
 - c. The permanent magnet and the electromagnet continuously repel each other.
 - d. The permanent magnet and the electromagnet continuously attract each other.
- ____ 12. What is the purpose of a commutator in an electric motor?
- a. It reverses the direction of the current in the electromagnet to stop the motor's spinning.
 - b. It reverses the direction of the current in the permanent magnet to keep the motor spinning.