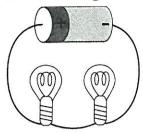
Chapter 13 Review

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1) The following is what type of circuit?



- A. Parallel Circuit
- B. Static Circuit
- C. Series Circuit
- D. Motion Circuit
- 2) What produces a spark of electricity when you run across a carpet and touch a metal doorknob?
 - a. Moving charges remain in balance
 - b. Moving charges generate electricity
 - c. They become neutral
 - d. They become static electricity
- 3) Which two objects will repel, or push away, each other?
 - a. a negatively charged balloon and a positively charged balloon
 - b. a positively charged balloon and a negatively charged piece of paper
 - c. a neutral balloon and a neutral piece of paper
 - d) a negatively charged balloon and a negatively charged balloon
- 4) A red balloon and a positively charged blue balloon move toward each other. What causes the balloons to move toward each other?
 - a. The red balloon has a positive charge that repels the blue balloon.
 - b. The red balloon has a negative charge that repels the blue balloon.
 - c. The red balloon has a positive charge that attracts the blue balloon.
 - d) The red balloon has a negative charge that attracts the blue balloon.
- 5) What is everything made of?
 - a. Blocks
 - b. neutral charges
 - c. negative charges
 - (d.) atoms

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- 6) What is an electric charge in motion?
 - a. static current
 - b. static electricity
 - (c.) electric current
 - d. motion electricity
- 7) Why are plastic and rubber used to cover electric wires?
 - a. They allow electric charges in one wire to come in contact with other wires more easily.
 - b. They speed up the flow of electric charges in wires.
 - c. They are good conductors of electric charges.
 - d. They are good insulators and prevent electric charges from coming in contact with other wires.
- 8) Juan is putting up a string of 100 holiday lights. One bulb is out. Why can Juan go ahead and put up the string of lights anyway and still have light?
 - (a) In a parallel circuit, a burnt-out bulb does not open the circuit.
 - b. The energy source for a parallel circuit is a battery.
 - c. A break in one part of a parallel circuit affects the rest of the circuit.
 - d. Each bulb receives the same amount of energy in a parallel circuit.
- 9) What is characteristic of an electric current?
 - a. It stays in one place.
 - b. It travels slowly.
 - (c.) It is in motion.
 - d. It can be seen.
- 10) What happens when a switch is open in an electric circuit?
 - a. The electric charges flow through the loop.
 - (b) The electric charges stop flowing.
 - c. A resistor in the loop heats up or gives off light.
 - d. Charges from the energy source flow through the loop.
- 11) Blowing wind and falling water are sources of energy for which of the following?
 - (a) generators
 - b. solar power plants
 - c. nuclear motors
 - d. geothermal energy plants

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- 12) Which of the following is an important electrical safety precaution everyone should follow?
 - a. Wrap worn or cracked electrical cords with tape.
 - b. Read the instructions on electrical products before using them.
 - c. Move appliance cords into pathways so people can see them.
 - d. Fix electrical problems on your own as soon as you notice them.
- 13) What is an important part of every generator?
 - a magnet
 - b. a source of falling water
 - c. chemical energy
 - d. solar energy
- 14) Which device is used to convert mechanical energy into electrical energy?
 - a. Generator
 - b. Electromagnet
 - c. Resistor
 - d. Electric motor
- 15) What happens when the number of coils in an electromagnet is increased?
 - The electromagnet becomes stronger.
 - b. The electromagnet becomes weaker.
 - c. The core of the electromagnet becomes larger.
 - d. The core of the electromagnet becomes smaller.
- 16) A scientist builds two electromagnets that are identical, except for the number of coils wrapped around the iron core. Electromagnet A has 15 coils and electromagnet B has 30 coils. Which statement is true about the electromagnets?
 - a. Electromagnet A is stronger than electromagnet B.
 - Electromagnet B is stronger than electromagnet A.
 - c. Electromagnet B will last longer than electromagnet A.
 - d. Electromagnet A will last longer than electromagnet B
- 17) What is true about an electromagnet?
 - a. It is a compass through which an electric current passes.
 - b It is a coil of wire with many loops through which an electric current passes.
 - c. It is another name for a compass.
 - d. It is a visible force around a magnet.
- 18) Where is the magnetic field strongest on a magnet?
 - a. at the north pole of the magnet
 - b. at the south pole of the magnet
 - (c.) at both poles of the magnet
 - d. at the center of the magnet

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19) What will the following magnet do?



- Attract
- b. Repel
- c. Stay in the same place
- d. Turn around in circle
- 20) What force acts on moving electric charges near a magnet?
 - a. chemical force
 - b magnetism
 - c. electric current
 - d. resistance
- 21) Which of the following surrounds Earth?
 - a. electric field
 - b. magnetic field
 - c. electric current
 - d. magnetic current
- 22) Where is, the magnetic field located for all magnets?
 - a. The magnetic field is only located around a magnet's poles.
 - b. The magnetic field is only located around a magnet's center.
 - c. The magnetic field goes out in all directions around a magnet.
 - d. The magnetic field goes out in one direction from a magnet.

True/False: Write True if the statement is true and False if the statement is false.

23)	False	Nor⊁h _ A south-seeking pole attracts only another <u>south</u> -seeking pole.
24)	False	_ All atoms have a positive charge. neg - nuetral
25)	False	_A electric field gets weaker the closer you get to the charged object.
26)	False	Compasses work best when they are close to magnets.
27)	True	_ There is more than one way to increase the strength of an electromagnet.
28)	True	_ Michael Faraday and Joseph Henry experimented with electricity.
	True onger as well.	_ Making the core of an electromagnet larger makes the electromagnet

30) _____November 8 was election day for Canada.