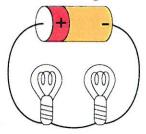
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1) The following is what type of circuit?



- 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
- 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. 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?
  - a. 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.
  - 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?



- a. 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)	_ A south-seeking pole attracts only another south-seeking pole.
24)	_ All atoms have a positive charge.
25)	_ A electric field gets weaker the closer you get to the charged object.
26)	Compasses work best when they are close to magnets.
27)	_ There is more than one way to increase the strength of an electromagnet.
28)	_ Michael Faraday and Joseph Henry experimented with electricity.
29)stronger as well.	_ Making the core of an electromagnet larger makes the electromagnet
30)	November 8 was election day for Canada.