

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Electricity and Circuits

Q1. What do you understand by an electric circuit?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q2. Electrician uses rubber gloves while repairing electric switches. Give reason.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q3. What does an electric circuit consist of?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q4. If an electrician uses a conduction tester on an object, the bulb of the tester glows. Is the object a conductor or insulator?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q5. If we use two strip of aluminum foil in place of connecting wire to glow a torch bulb using a cell, will bulb glow? Explain, how?

Ans. \_\_\_\_\_  
\_\_\_\_\_

## Electricity and Circuits

Q1. What do you understand by an electric circuit?

Ans. The electric circuit provides a closed path for electricity to pass between the two terminals of the electric cell. The bulb glows only when current flows through the circuit.

Q2. Electrician uses rubber gloves while repairing electric switches. Give reason.

Ans. Human body is a good conductor of electricity and may get shock. To prevent themselves from electric shock, electrician wears rubber gloves while repairing electric switches.

Q3. What does an electric circuit consist of?

Ans. An electric circuit mainly consists of electric devices (such as computer, light bulb), switching devices, source of electricity (such as battery), etc. that are connected by conducting wires.

Q4. If an electrician uses a conduction tester on an object, the bulb of the tester glows. Is the object a conductor or insulator?

Ans. The bulb of tester would glow only if the object conducts electricity. Since, bulb glows when tester touches the object, object must be a conductor.

Q5. If we use two strip of aluminum foil in place of connecting wire to glow a torch bulb using a cell, will bulb glow? Explain, how?

Ans. Electricity can flow through conductors but not insulators. In the following activity, we used aluminum foil which is a conductor, hence bulb will glow.