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**Chapter 14**

**Electric Current and Its Effects**

**1. What is an electric current?**

Ans. An electric current is a flow of electric charge

**2. What is a battery?**

Ans. Combination of two or more cells is called a battery.

**3. Name some devices that use battery?**

Ans.

* Translators
* Toys
* TV remote
* Torches

**4. Where can we place a key or a switch in a circuit?**

Ans. We can place it anywhere in the circuit.

**5. When does circuit is said to be close and open?**

Ans. If switch is ON then the circuit is said to be closed and if the switch is OFF then the circuit is said to be open.

**6. What is a filament?**Ans. In a bulb there is a thin wire which is called filament.

**7. What happens in case of a broken filament?**

Ans. The bulb gets fused.

**8. Define heating effect of current.**

Ans. The wire gets hot when an electric current passes through it. This is called the heating effect of current.

**9. Name some electric appliances where heating effect of current is used.**

Ans.

* Electric room heater
* Electric iron
* Electric geyser

**10. On what factors do the heat produced in a wire depends on?**

Ans.

* Material
* Length
* Thickness

11. Which types of wires are used for making fuse?  
Ans. Wire which melts quickly and breaks when large electric currents are passed through them.

**12. What is insulation of wires?**

Ans. Covering of wire with an insulator is called insulation of wire.

**13. Define magnetic effect of current.**

Ans. When electricity passes through a wire; it behaves like a magnet. This is the magnetic effect of current.

**14. Who was the first scientist who noticed the magnetic effect of current?**

Ans. Christian Oersted

**15. What are electromagnets?**  
Ans. The coil which acts as magnet when electric current is passed through them, are called electromagnets.