



KALPAVRUKSHA MODEL SCHOOL

Answers Online Class Assignment-1

Class: VII

Sub: Physics

Date: 26.8.2021

Topic: ELECTRIC CURRENT AND ITS EFFECTS

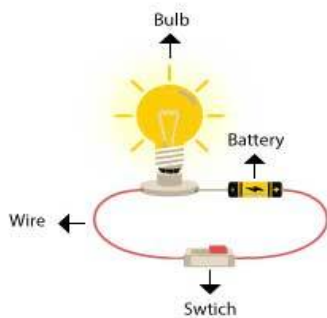
I. Answers:

1) Name the device which is used to make and break an electric circuit.

ANS: Electric switch is used to make and break an electric circuit.

2) What is an electric circuit? Draw a neat label diagram.

ANS: The unbroken path through which an electric current can flow is called an electric circuit.



3) Define open and closed circuit.

ANS: The electric circuit, in which there is a gap in the connections between the terminals of the cell, wires and the bulb, is called an open circuit (or incomplete circuit).

The electric circuit in which there is no gap in the connections between the terminals of the cell, wires and bulb is called a complete circuit (or closed circuit).

4) Define circuit diagram.

ANS: A standard method of drawing an electrical circuit is called a circuit diagram.

5) Does the wire get heated or cooled when an electric current flows through it? Explain.

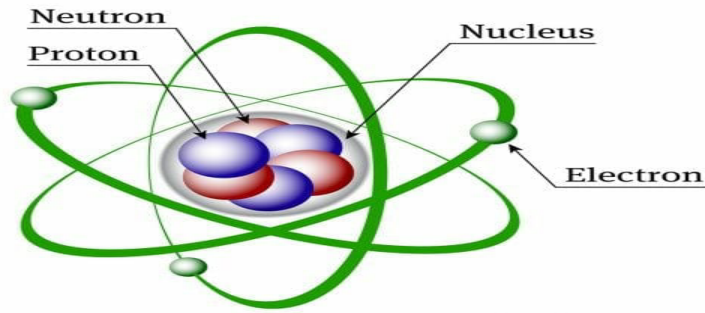
ANS: Yes wire gets heated because when electric current passes through a high resistance wire, the electric energy gets converted into heat energy. This heat energy heats up the resistance wire.



6) Define atom and draw neat label diagram of it.

ANS: Atom: A unit of matter; the smallest unit of a chemical element

Atom structure



7) Draw and label the standard symbols of electric circuit.

ANS: Refer page no-181, Table no-13.1 standard symbols used for basic component of electric circuits.