

HARI VIDYA BHAWAN
Worksheet - 2
Class- X
Subject- Science
Session- 2019-20
Ch- 12 Electricity

Date-24/03/2020

Electric Potential:- Total work done to carry a unit charge from infinity to a final point, is called electric potential. SI unit is Volt(V).

$$\text{Electric Potential} = \text{Work Done/ Time}$$

$$V = W/Q$$

Potential Difference:- The difference in electric potential to carry a unit charge from one point to another point, is called potential difference. It is calculated by Voltmeter.

$$\text{Potential difference} = V_1 - V_2$$

Q.1 Define 1 Volt.

Q.2 How much work is done to carry 5C charge from 5V source of battery ?

Q.3 20 Joule energy is taken to carry a charge of 5C by a battery. Calculate the electric potential of the battery.

Q.4 100 Joule energy is spent to carry a charge from 10 volt source of battery. Calculate the electric charge flowing in the circuit.

Q.5 Draw the symbol of a battery of three cells.

Activity-2:- Observe the materials present at home and segregate them as conductors and insulators by using circuit made in previous activity and enlist them as conductor and insulator.