Current

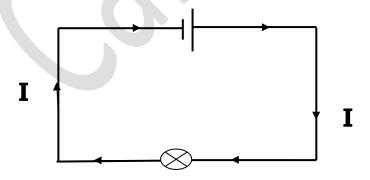
• Electric current

➤ Electric current is defined as the amount of charge flowing through a conductor cross-section in a unit time.

$$I = \frac{Q}{t} \qquad Unit = A / Cs^{-1}$$

Standard direction of current

- > The direction that positive charges flow is the standard direction of current.
- > Current flows in the opposite direction to the direction of electron flow.
- > Let's see how this works in a Battery,



In a battery, current will go from (+) to (-). Electrons go out from the (-) to (+).

• Relation between Current and mean drift velocity

I = VAne

