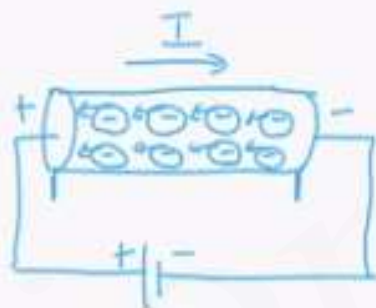


CURRENT :- flow of charge

- Rate of flow of electrons

Conductor :- having more no. of free electrons



$$I = \frac{q}{t} = \frac{dq}{dt}$$

$\therefore dq =$ Small change in charge
 $dt =$ Small change in time

$$I = \frac{ne}{t}$$

$$q = ne$$

$n =$ no. of electrons

$e =$ charge of an electron $\rightarrow 1.6 \times 10^{-19} \text{ C}$

$$I = \frac{q}{t} = \frac{\text{C}}{\text{sec}} = \text{Amp}$$

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