

$$I = \frac{Q}{T}$$

$$Q = ne$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

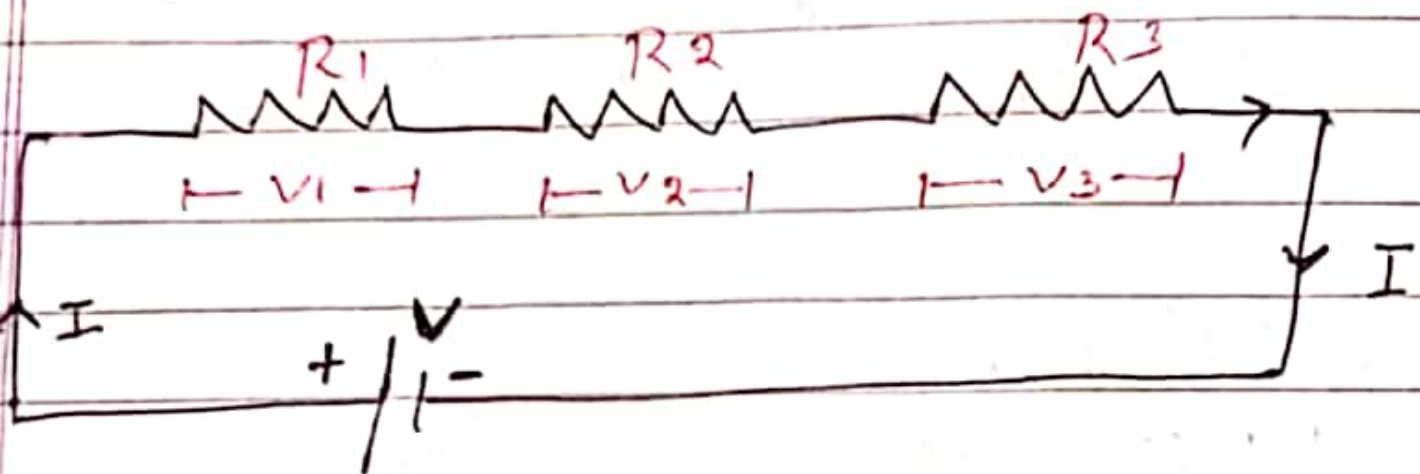
Unit of Current \rightarrow Ampere

Define 1 Ampere?

If 1 C charge flow through conductor in 1 second is called 1 Ampere

Device used to measure current
Ammeter.

When Resistor Connected in Series :-
Two or More Conductor are said to be connected in series if they connected one after other such that current flow through each conductor same.



V is applied potential,
 R_1 , R_2 , R_3 three resistors
is potential across R_1
D.

$$V = IR, \quad V_1 = IR_1$$

$$V_2 = IR_2, \quad V_3 = IR_3$$

$$V = V_1 + V_2 + V_3$$

$$IR = IR_1 + IR_2 + IR_3$$

$$R_s = R_1 + R_2 + R_3$$

Disadvantage of Series Arrangement
If any one appliance fuse, then
all other will not work.

Because there is only single path
for flow of current.

Series arrangement is not used
in domestic electric circuit.

Note: Silver is Best Conductor of Electricity.

- A material whose resistivity is low is good conductor of Electricity.