

DC CIRCUITS

- ① Current - Flow of electron in a closed circuit is called current or amount of charge passing through the conductor in unit time also called current.

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

- ② Potential or voltage - The capacity of charge body to do work is called potential or voltage.

$$V = \frac{W}{Q} = \frac{\text{Joule}}{\text{Coulomb}} = \text{volt}$$

- ③ Potential difference - The difference of electrical potential between two charged bodies is called potential difference.

- ④ Electromotive force - The force required to move the electron from negative terminal to positive terminal of electrical source in electrical circuit is called EMF. Its unit is volt and denoted by E.

Basic Electrical Engineering Vtu Notes

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