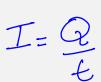
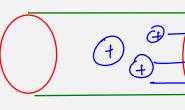
4.2.2 Electrical Current

The charge passing a point per unit time





$$A = \frac{c}{s}$$

$$A = I$$
 $A = I$
 $A = I$
Unit of Current

$$I = 20 = 0.17s$$

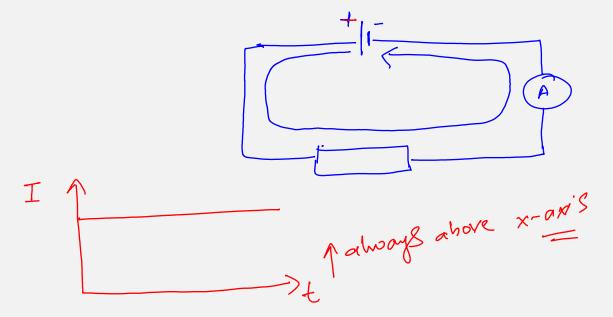




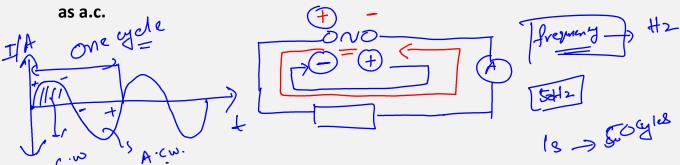




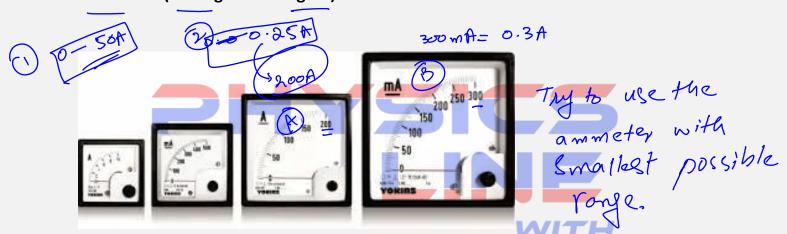
then current will be 1 Ampere -> Direct Current: Current that flows only on one direction is called as d.c.



Alternating Current: Current that reverses its direction of flow regularly is called

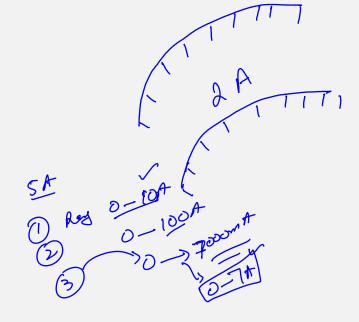


Ammeters (Analogue and Digital)



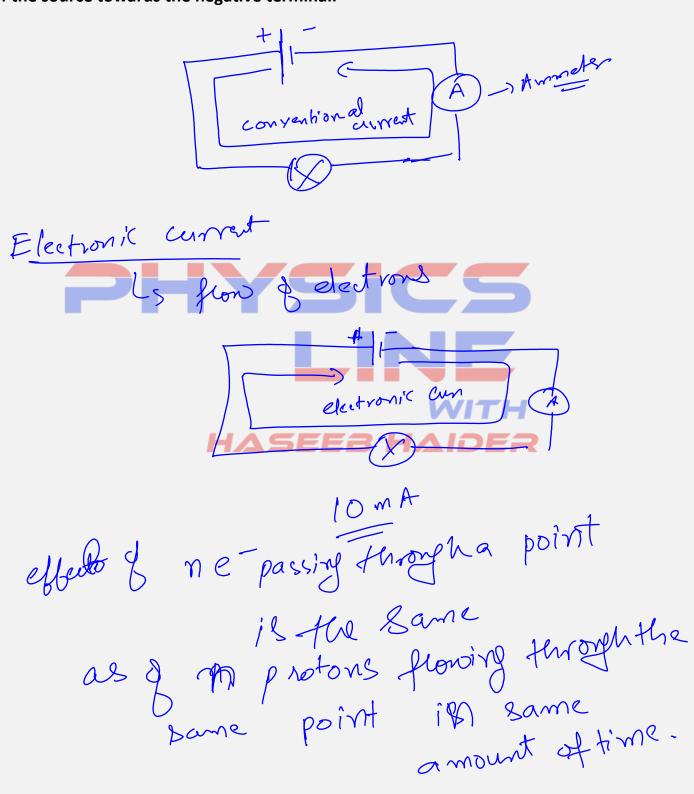
HASEEB HANDER



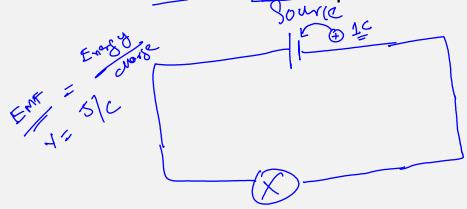


Conventional Current vs Flow of Electrons

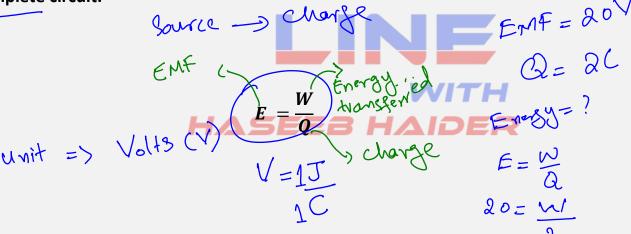
Conventional Current is the flow of positive charges from the positive terminal of the source towards the negative terminal.



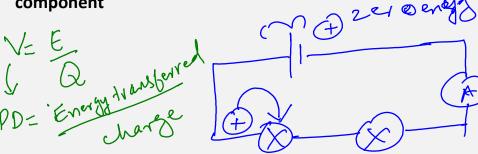
4.2.3 Electromotive force and potential difference



EMF is the electrical work done by a source in moving a unit charge around a complete circuit.



Potential Difference is the work done by a unit charge passing through a component

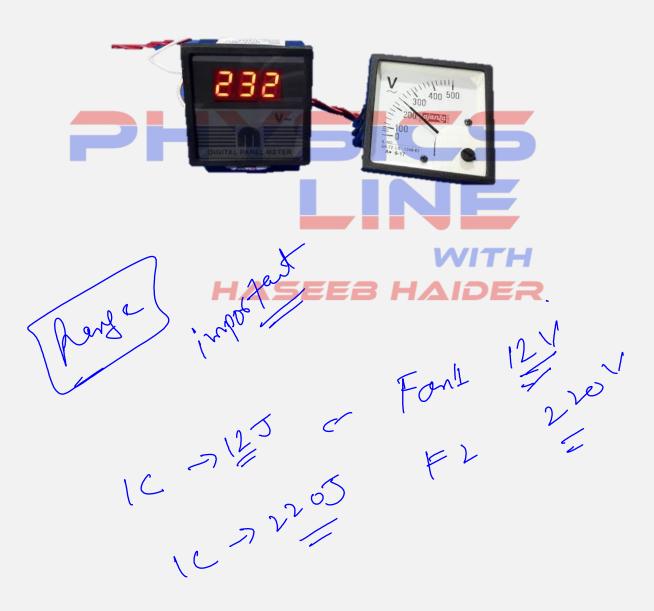


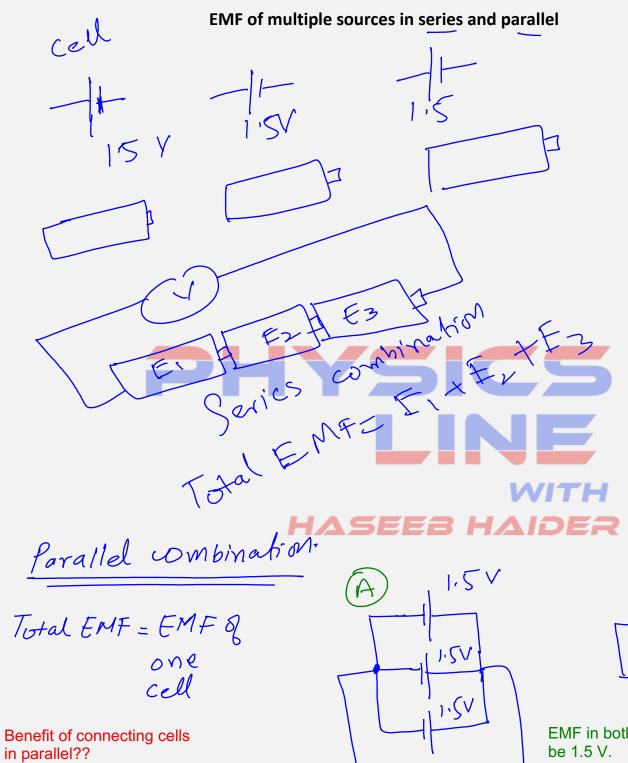
Unit of EMF and PD

16/18 = 65

EMF VS WI The Marse

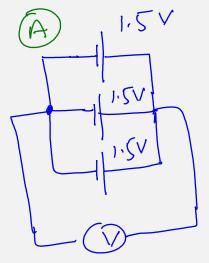
Voltmeters





Benefit of connecting cells in parallel??

Takes longer to exhaust or provides maximum potential for longer period of time than a single cell of same emf



EMF in both A and B will be 1.5 V.

But Circuit A will last longer as only one of three cell will be used during one cycle.

When cells are connected in series we add the individual EMFs to get the total EMF

