

→ So, in a conductor, current flows in the direction opposite to the flow of electron. The universal convention that current is the net flow of positive charges, protons.

→ Mathematically,

$$i = \frac{dq}{dt} \Rightarrow q = \int_{-\infty}^t i dt$$



(Current due to flow of charge in a conductor)

→ Unit of current is Ampere. 1 Ampere = 1 Coulomb/sec.

→ As charge can vary with time in several ways, there are two types of current exist.

→ A direct current (dc) is a current that remains constant with time, whereas an alternating current (ac) is a current that varies sinusoidally with time.



Problems :-

① The total charge entering a terminal is given by  $q = 5t \sin 4\pi t$  mC. Calculate the current at  $t = 0.5$  s.

Sol:-  $i = \frac{dq}{dt} = \frac{d}{dt} (5t \sin 4\pi t) = (5 \sin 4\pi t + 20\pi t \cos 4\pi t)$  mA

At  $t = 0.5$  sec,  $i = 5 \sin 2\pi + 10\pi \cos 2\pi = 0 + 10\pi = \boxed{31.42 \text{ mA}}$  (Ans)

② Determine the total charge entering a terminal bet<sup>n</sup>  $t = 1$  s &  $t = 2$  s, if the current passing to terminal is  $i = (3t^2 - t)$  A.

Sol:-  $q = \int_{t=1}^2 i dt = \int_{t=1}^2 (3t^2 - t) dt = \left( t^3 - \frac{t^2}{2} \right) \Big|_1^2 = (8 - 2) - (1 - \frac{1}{2}) = \boxed{5.5 \text{ C}}$  (Ans)

③ The total charge entering a terminal is  $q = (30 - 10e^{-2t})$  mC, find the current at  $t = 0.5$  s. [Ans : 7.36 mA]

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**JA Banks**



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