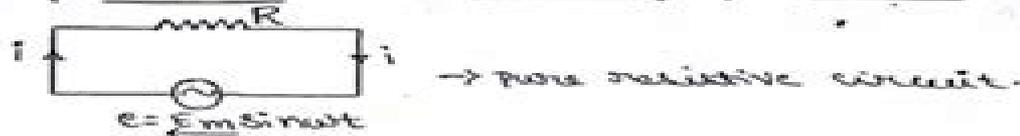


SINGLE PHASE CIRCUITS

- ① Alternating current [A.C] through pure Resistance circuit



Consider a simple circuit of a pure resistance 'R' Ohms, connected across alternating voltage $e = E_m \sin \omega t$, and 'i' is an alternating current flows through it. according to ohm's law;

$$i = \frac{e}{R} = \frac{E_m \sin \omega t}{R} \quad \left(\frac{E_m}{R} \right) \sin \omega t$$

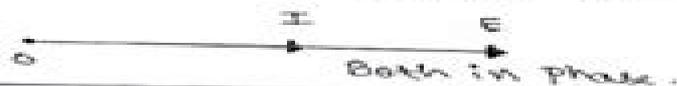
$$i = I_m \sin \omega t, \quad \text{where } I_m = \left(\frac{E_m}{R} \right)$$

This is the equation giving instantaneous value of current comparing this with standard equation

$$i = I_m \sin(\omega t + \phi)$$

$$I_m = \left(\frac{E_m}{R} \right) \text{ and } \phi = 0$$

So, maximum value of alternating current, 'i' is $I_m = \frac{E_m}{R}$ $\phi = 0$. it indicates that 'current is in phase with the voltage'.



In purely resistive circuit, the current and the voltage applied are in phase with each other.

→ power:

The instantaneous power in a.c circuits can be obtained by taking product of the instantaneous values of current and voltage

$$P = e i$$

$$P = (E_m \sin \omega t) (I_m \sin \omega t)$$

$$= E_m I_m \sin^2 \omega t$$

$$= E_m I_m \left(\frac{1 - \cos 2\omega t}{2} \right)$$

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**Amit Kumar, Sabrina Senatore, Vinit
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