

## Paper - 1 Module - 1

● **State ohm's law? What are the limitations of ohm's law.**

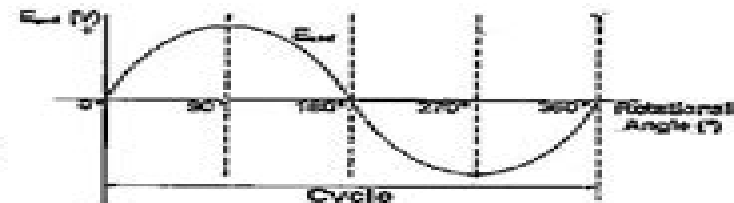
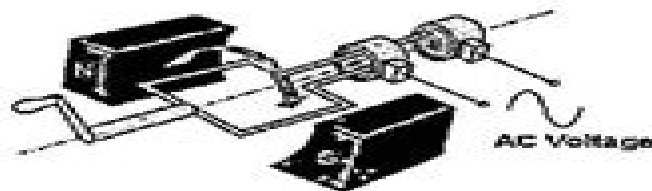
It states that the current flowing through a conductor is directly proportional to the potential difference across the conductor, provided the temperature remains constant.  
 $I \propto V$

$$I = \frac{V}{R}$$

$$\boxed{V = IR} \text{ or } \boxed{R = \frac{V}{I}}$$

Limitations of ohm's law:-

- ohm's law does not hold good for non-metallic conductors such as silicon carbides,  $V = KI^n$
  - ohm's law also does not hold good for non-linear devices such as zener diodes, voltage regulators.
  - ohm's law does not hold good to arc lamps because of the non-linear characteristics of the arc produced.
  - Ohm's law does not hold good where the temperature varies rapidly.
- **Explain the generation of single phase A.C induced EMF with suitable diagrams.**



- As coil completes one revolution, one cycle of emf is produced
- The maximum emf induced when rate of flux links to coil is minimum or rate of magnetic flux cut is maximum  
 The induced emf is given by  
 $e = Blv \sin\theta$   
 $e = K \sin\theta$  where  $Blv = K$

# Vtu Notes For 1st Sem Basic Electrical

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