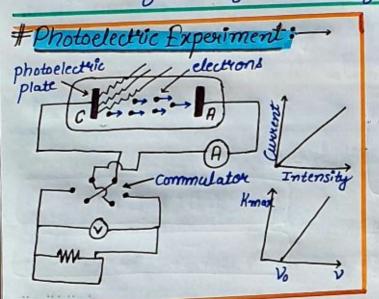
## (Dual Nature Of Matter and Radiation...)

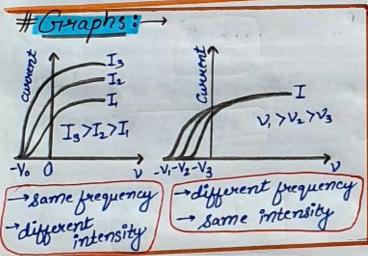
## # Photoelectric Effect:

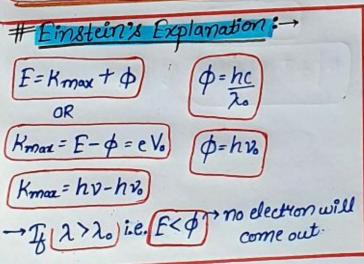
When light of sufficient small wavelength is incident on a metal surface, electrons are ejected.

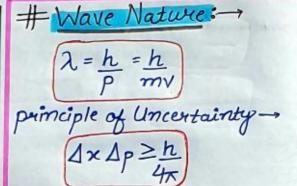
- Electrons are called photo-electrons.

→ Minimum energy required to bring an electron out of the swyace is work function









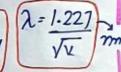
For a photon—  $p = hv \Rightarrow \frac{h}{P} = \frac{c}{v} = \lambda$ 

for an electron-

$$K=eV=p^2$$
 $2m$ 

P=J2mK=J2meV

$$\lambda = \frac{h}{P} = \frac{h}{\sqrt{2mK}} = \frac{h}{\sqrt{2meV}}$$





## NEET SLAYER