

SHORT NOTES :-

$$\Rightarrow \boxed{E = h\nu} \quad \boxed{c = \nu\lambda}$$

MARZ SHAIKH
2001700059

$$\boxed{P = \frac{E}{c}} \quad \boxed{\lambda = \frac{h}{P}}$$

$$\frac{1}{2}mv^2 = eV \rightarrow \therefore \boxed{v = \sqrt{\frac{2eV}{m}}}$$

$$\boxed{\lambda = \frac{h}{\sqrt{2me}} = \frac{h}{\sqrt{2meV}} = \frac{h}{\sqrt{3mk_B T}}}$$

$$\boxed{mv\lambda = \frac{nh}{2\pi} \quad \text{or} \quad P\lambda = \frac{nh}{2\pi} \quad \text{or} \quad \lambda = \frac{nh}{2\pi}}$$

$$\boxed{D \sin \phi = n\lambda} \quad \text{--- } (\phi = \text{diffraction angle, } D = \text{distance b/w atoms})$$

$$\Rightarrow \text{HUP :- } \boxed{\begin{array}{l} \Delta x \Delta k \sim 1 \\ \Delta p \Delta x \sim \hbar \\ \Delta E \Delta t \sim \hbar \\ \Delta J \Delta \theta \sim \hbar \end{array}} \quad \boxed{\Delta k = \frac{\Delta p \hbar}{\hbar}}$$

$$\Rightarrow E = \sqrt{(mc^2)^2 + (Pc)^2} \rightarrow \therefore \boxed{E = Pc} = (mc^2 \ll Pc)$$

$$\Rightarrow \text{single slit diffraction} \rightarrow \boxed{(\Delta x)(\Delta p \hbar) \sim \hbar} \quad \text{not } \hbar$$

$$\Rightarrow \text{Norm. Wave eqn: } P = |\Psi|^2 \frac{\partial \omega}{\partial k}$$

$$\Rightarrow \boxed{E = h\nu = \hbar\omega} \quad \boxed{V_p = \frac{\omega}{k}} \quad \boxed{V_p = \frac{E}{P}} \quad \boxed{V_g = \frac{d\omega}{dk}}$$

$$\boxed{P = \hbar k}$$

group velocity

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