

IMPORTANT JEE-NEET FORMULAS

Atomic Structure Formula's

<u>Topics</u>	<u>Formulas</u>
<u>Formula for Planck's Quantum Theory</u>	Energy of a photon = $h\nu = \frac{hc}{\lambda}$
<u>Formula for Photoelectric Effect</u>	$h\nu = h\nu_0 + \frac{1}{2}m_e v^2$
<u>De- Broglie wavelength</u>	$\lambda = \frac{h}{mc} = \frac{h}{p}$
<u>Formula for Wavelength of emitted photon</u>	$\frac{1}{\lambda} = RZ^2 \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$
<u>Formula for no. of photons emitted by an atom of Hydrogen</u>	$\frac{\Delta n(\Delta n + 1)}{2}$
<u>Formula for Heisenberg's uncertainty principle</u>	$\Delta x \cdot \Delta p \geq \frac{h}{4\pi}$ $m \Delta x \cdot \Delta v \geq \frac{h}{4\pi}$ $\Delta x \cdot \Delta p \geq \frac{h}{4\pi m}$

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