

Planck's radiation law matches Wien's exponential law (10 marks)

Write the time-dependent Schrodinger wave equation, and define its components. What is the significance of the time-dependent Schrodinger wave equation in quantum mechanics? A classical wave is defined as $\psi(x, t) = A \sin(kx - \omega t + \phi)$, where k is the wave number, ω is the angular frequency and ϕ is a phase constant, and the wave is moving in the positive x -direction. Then show that the given wave is not a valid solution to the time-dependent Schrodinger wave equation. (1 + 2 + 1 + 6 marks)

10

- Apply the quantum theory of light to explain the Compton effect. Evaluate if the visible light rays can show the Compton effect. Support your answer with a valid reason. (3 + 2 marks)
- A certain excited state of a hydrogen atom is known to have a lifetime of 2.5×10^{-14} s. Then, calculate the minimum error with which the energy of the excited state can be measured. (5 marks)

10

An electron of mass, m , is bound within a potential well with the given potential of:

$$V(x) = \begin{cases} 0, & 0 \leq x \leq \frac{L}{2} \\ \infty, & \text{elsewhere} \end{cases}$$

Evaluate the energy, wave function, and probability density of the electron confined in this one-dimensional potential box. Plot the electron's corresponding Energy, Wave-function, and Probability Distribution inside the potential well for its 3rd excitation state. (7 + 3 marks)

10

- Briefly explain the construction, working principle, mode of operations, and two applications of the Scanning Tunnelling Microscope. (5 Marks)
- A nucleon inside the nucleus can be seen as a particle bound inside a 3D potential box. For such a case, if the cubical box size is 10^{-14} m, then compute the minimum energy

10

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