1- Estimate the number of photons emitted per second by a 100-watt light bulb. Assume a wavelength of 550 nm (yellow light).

2- For a particle in a 1-dimensional box, calculate the probability that the particle will be found in the middle third of the box $L/3 \leq x \leq 2l/3$. From the general formula for arbitrary n, find the limiting value as $n \rightarrow \infty$.

3- Write the postulation of quantum theory with out discuss

4- Explain the meaning of eigenfunction and eigenvalue with example?