

CL19\_Q1. What is meant by degeneracy of energy states in quantum systems?

CL19\_Q2. Give examples for degenerate states for a particle in three dimensional box with infinite potential at the boundaries.

CL19\_Q3. Calculate the Eigen value of the electron in the lowest energy level, confined in a 2D potential box of side 0.1 nm.

CL19\_Q4. Using the appropriate boundary conditions obtain the energy eigen values and the corresponding eigenfunctions for a particle trapped in a three dimensional infinite potential box.