- 1. Prove that in Hydrogen atom, for n>>1, the frequency of the photon emitted from n-to-n-1 transition is the same as the rotational frequency of the electron.
- 2. What are the maximum and minimum wavelengths of light emitted from Balmer series?
- 3. When Hydrogen is excited by 12.2eV electrons, what are the possible wavelengths of the emitted photons?
- 4. If the life-time of the first excited state (n=2) in Hydrogen atom is 10⁻¹⁰s, how many turns does an electron rotate before it drops down to the n=1 state?