

Assignment: Spin magnetic moment and Larmor precession

- 1. Arrive at the spin magnetic moment for and orbital magnetic moment .**
- 2. Derive the expression for Lande' g factor initialising from total magnetic energy due to total magnetic moment**
- 3. If $^{2S+1}L_J$ denotes the state of an element, Then in 3P_0 what is S, L and J?**
- 4. Explain the significance of Larmor precession in EPR, NMR/MRI.**