

Dumkal College

Basantapur, Dumkal



Model questions

Topic: Microstates

Course Code : CHEMHT-1

Semester-I (Hons)

Name of the teacher: Saleha Khatun

- 1. Determine the total number of microstates and ground state term Symbol for a d^2 -system.**
- 2. What do you mean by Microstate?**
- 3. Deduce ground state term symbol for atom having atomic number 22.**
- 4. State Hund's rules and hence find out the ground state term for Carbon atom.**
- 5. The different possible energy states for d^2 -configuration are $^3F, ^3P, ^1G, ^1D$ and 1S . Predict the ground state term with necessary arguments.**
- 6. How many microstates exist for the electron configuration i) P^3 ii) f^2 iii) d^3**