**Sardar Bhagwan Singh University Balawala, Dehradun (Uttarakhand)**

**Msc Pharmaceutical Chemistry/Chemistry First Year (Second Semester)**

**Subject: Inorganic Chemistry: Paper Code (CHEM 521)**

**Even Semester Assignment-IX (2020)**

**Time: Hours Max Marks:**

**Note: Attempt all questions**

1. What is spin selection rule?
2. Why spin selection rule failed in some cases?
3. Give the appropriate answer in support of spin selection rule over its failure.
4. What is Laporte’s rule?
5. Why Laporte’s rule failed in some cases?
6. Give the appropriate answer in support of Laporte’s rule over its failure.
7. What are microstates?
8. Calculate the microstates for p3 system.
9. Calculate the microstates for p2 system.
10. Calculate the microstates for d3 system.

(Dr. Neetu Pandey)

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