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

**Bsc Chemistry Honours Second Year (Fourth Semester)**

**Subject: Inorganic Chemistry: Paper Code (CHEM 241)**

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

**Time: Hours Max Marks:**

**Note: Attempt all questions all questions carry equal marks 02**

1. **What is lanthanide contraction?**
2. **What are the consequences of lanthanide contraction?**
3. **What is the cause of lanthanide contraction?**
4. **Write a short note on color of lanthanide compounds.**
5. **Write a short note on magnetic properties of lanthanides.**
6. **How magnetic properties are affected by half and fully filled f-sub shell.**
7. **Explain why La3+ is colorless and Lu4+ is orange red in color?**
8. **Explain why Ce3+ is more basic than Ce4+ in nature?**
9. **Write the names of major ores of lanthanides.**
10. **Name the method used in the extraction of lanthanides.**

**(Dr. Neetu Pandey)**

**(Dept. of Applied chemistry)**