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

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

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

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

**Time: Hours Max Marks:**

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

1. **What are lanthanides?**
2. **Why lanthanides are also called inner transition elements?**
3. **Name all the members in lanthanides series.**
4. **Write the difference in configuration of La and Ln.**
5. **Write the common oxidation state shown by all the members of lanthanides series with reason.**
6. **Explain why Eu and Yb exhibit +2 oxidation states.**
7. **Explain why Ce and Tb exhibit +4 oxidation states.**
8. **Explain why La, Gd and Lu exhibit +3 oxidation states.**
9. **What do you understand by lanthanide contraction?**
10. **What is the cause of lanthanide contraction?**

**(Dr. Neetu Pandey)**

**(Dept. of Applied chemistry)**