

**UG 6th Semester Examination 2022**  
**Internal Assessment**  
**CHEMISTRY**  
**[HONOURS]**  
**Course Code: HCCT-13**  
**Full Marks: 10**

**Answer any five questions from the following: [2x5=10]**

1. Write the symmetry elements present in the following molecules: i)  $\text{BF}_3$ , ii)  $\text{SF}_6$
2. Identify the point groups of  $\text{H}_3\text{BO}_3$  and  $\text{Ni}(\text{CO})_4$
3. Write the structure of ATP.
4. Give examples of gold and platinum complexes used as drug.
5. Write a short note on Wilson disease.
6. Show how the 18 e rule is followed in ferrocene.
7. Write a short note on Zeise's salt.