**B.Sc. 4th Semester (Honours & Programme) Examination 2021**

**Subject: Chemistry**

**Course Title: Functional Group Organic Chemistry; Inorganic**

**Chemistry: Coordination Chemistry and Transition Metal**

**Chemistry**

**Full Marks: 15 Time: 1 hour**

*The figures in the margin indicate full marks*

*Candidates are required to give their answers in their own words as far as possible*

1. Answer any one 5
2. Discuss the preparation method of Nitration of aromatic compounds
3. Discuss the preparation method of Hydrolysis of amide compounds
4. Answer any one 6
5. Discuss the procedure of estimation of Zn2+ by complexometric titrations using EDTA.
6. Discuss the procedure of estimate the amount of nickel present in a given solution as bis(dimethylglyoximato) nickel(II)
7. Answer any one 4
8. Discuss the procedure of preparation of tetraamminecarbonatocobalt (III) nitrate complex.
9. Discuss the procedure of preparation of potassium trioxalatoferrate (III) trihydrate complex.