

Government General Degree College, Dantan-II
B. Sc (H) 4th Semester Internal Evaluation-2020

Subject: Chemistry

Paper: CC-9 (T+P)

F.M: 20 (Theory) + 10 (Practical)

Time: 2 h

Answer any **one question** from each Part.

Part A : Inorganic Chemistry (Theory)

1. Write short note on Ellingham diagram.
2. Explain Werner's theory of coordination complexes.
3. Briefly explain the structural aspects and applications of silicones and siloxanes.
4. Explain the structure and bonding of diborane.
5. Write short note on interhalogen compounds.

Part B : Inorganic Chemistry (Practical)

1. Explain how Hardness of water is determined
2. Write the principle involved Estimation of Zn(II) in a Zn(II) and Cu(II) mixture.
3. Write the process of synthesis of *cis* $K[Cr(C_2O_4)_2(H_2O)_2]$
4. Write the process of synthesis of Potassium diaquadioxalatochromate(III)
5. Write the process of synthesis of Potassium tris(oxalato)ferrate(III)