

Department of Chemistry

Chemistry Lab (CH-207)

B. Sc. 2nd Year

List of Experiments

Section –A (Inorganic)

Gravimetric Analysis

1. Quantitative estimation of Cu^{2+} as copper thiocyanate and Ni^{2+} as Ni - dimethylglyoxime.
2. Colorimetry : To verify Beer - Lambert law for $\text{KMnO}_4/\text{K}_2\text{Cr}_2\text{O}_7$ and determine the concentration of the given $\text{KMnO}_4/\text{K}_2\text{Cr}_2\text{O}_7$ solution.
3. Preparations : Preparation of Cuprous Chloride, prussion blue from iron fillings, tetraammine cupric sulphate, chrome alum, potassium trioxalatochromate(III).

Section– B (Physical)

1. To determine the CST of Phenol - Water system.
2. To determine the solubility of benzoic acid at various temperatures and to determine the Δ of the dissolution process.
3. To determine the enthalpy of neutralization of a weak acid/ weak base Vs strong base/ strong acid and determine the enthalpy of ionization of weak acid/ weak base.
4. To determine the enthalpy of solution of solid calcium chloride.
5. To study the distribution of iodine between water and CCl_4 .



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