NORTHERN INDIA ENGINEERING COLLEGE

DEPARTMENT OF CHEMISTRY

LIST OF EXPERIMENTS - FIRST SEMESTER

- Determination of the percentage composition of a given mixture of sodium chloride and sodium hydroxide,10gm of which is dissolved per litre of the solution.
- 2. Determination of the amount of Na₂CO₃ and NaHCO₃ In the given mixture of Na₂CO₃ and NaHCO_{3.}
- 3. Determination of alkalinity of the given water sample.
- 4. Determination of calcium ions in a given solution by complexometric titration.
- 5. To determine the strength in grams per litre of AgNO₃ solution being provided NaCl solution by mohr's method.
- 6. Determine the coefficient of viscosity of the given liquid by ostwald's viscometer method.
- 7. To determine the strength of Cu in copper ore solution provided hypo solution.
- 8. Determine the surface tension of the given liquid by drop number method.
- 9. To verify the beer's law and apply it to find the concentration of the given unknown sample.
- *10.Determination of reaction rate constant for a 1st order reaction.
- *11.Determination of heat of neutralization of HCl with NaOH.

^{*}Beyond syllabus