PHARMACEUTICAL ANALYSIS (Practical)

4 Hours / Week

I Preparation and standardization of

1. (1) Sodium hydroxide
2. (2) Sulphuric acid
3. (3) Sodium thiosulfate
4. (4) Potassium permanganate
5. (5) Ceric ammonium sulphate

II Assay of the following compounds along with Standardization of Titrant

1. (1) Ammonium chloride by acid base titration
2. (2) Ferrous sulphate by Cerimetry
3. (3) Copper sulphate by Iodometry
4. (4) Calcium gluconate by complexometry
5. (5) Hydrogen peroxide by Permanganometry
6. (6) Sodium benzoate by non-aqueous titration
7. (7) Sodium Chloride by precipitation titration

III Determination of Normality by electro-analytical methods

1. (1) Conductometric titration of strong acid against strong base
2. (2) Conductometric titration of strong acid and weak acid against strong base
3. (3) Potentiometric titration of strong acid against strong base

Recommended Books: (Latest Editions)

1. A.H. Beckett & J.B. Stenlake's, Practical Pharmaceutical Chemistry Vol I & II, Stahlone Press of University of London
2. A.I. Vogel, Text Book of Quantitative Inorganic analysis
3. P. Gundu Rao, Inorganic Pharmaceutical Chemistry
4. Bentley and Driver's Textbook of Pharmaceutical Chemistry
5. John H. Kennedy, Analytical chemistry principles
6. Indian Pharmacopoeia.