Contents

Praface	xi
Safety in Laboratory	1
Methods of Expressing the Concentration	3
Unit I : Limit Tests	
Experiment No: 1 - Limit Test for Chloride	8
Experiment No: 2 - Limit Test for Modified Chloride	11
Experiment No: 3 - Limit Test for Sulphate	14
Experiment No: 4 - Limit Test for Modified Sulphate	17
Experiment No: 5 - Limit Test for Iron	20
Experiment No: 6 - Limit Test for Lead	23
Experiment No: 7 - Limit Test for Arsenic	26
Experiment No: 8 - Limit Test for Heavy Metal	30
Unit II : Inorganic Qualitative Analysis	
Experiment No: 9 - To Identify the Given Inorganic Compound by	
Systematic Qualitative Analysis	36
Unit III : Tests for Purity	
Experiment No: 10 - To Determine Swelling Power of Bentonite	55
Experiment No: 11 - To Estimate Neutralizing Capacity of Aluminium	
Hydroxide Gel	57
Experiment No: 12 - To Determine Potassium Iodate and Iodine in Giv	en
Sample of Potassium Iodide	59

Unit IV: Preparation of Inorganic Pharmaceuticals

Experiment No: 13 - To Prepare Boric Acid	62
Experiment No: 14 - To Prepare Potash Alum	64
Experiment No: 15 - To Prepare Ferrous Sulphate	66
Appendix	68
Preparation of Solution and Reagents	68
Indicators Used in Volumetric Analysis	74