

## Contents

Preface to the Third Edition

Preface to the First Edition

vi

Section 1: Basic Principles of Biochemistry		
1.	Introduction to Medical Laboratory Technology	3
2.	Carbohydrates	7
3.	Lipids	19
4.	Proteins and Amino Acids	27
5.	Digestion and Absorption of Carbohydrates, Lipids and Proteins	40
6.	Safety Measures in a Clinical Chemistry Laboratory	45
7.	Storage and Handling of Laboratory Chemicals	46
8.	First Aid and Emergency Treatment in a Clinical Chemistry Laboratory	53
9.	Units of Measurements	57
10.	Radioisotopes and Radiation Hazards	61
11.	Biophysical Chemistry	65
12.	Reference Range	70
13.	Laboratory Glass Apparatus	73
14.	Electrical Apparatus	88
15.	Collection and Handling of Blood Specimen	94
16.	Infectious Biological Material	105
17.	Disposal of Biological Waste	110
18.	Distilled Water	113
19.	Reagents and Solutions	116
20.	pH, Buffers and Indicators	120
21.	Qualitative Analysis of Urine	126
22.	Colorimetry	136
23.	Routine Clinical Chemistry Investigations of Blood	142
24.	Electrolytes	154
25.	Statistical Methods	160
26.	Biochemical Analysis of Kidney and Gallbladder Stones	164



