Contents

1. Methods of Expressing Concentration 1
2. Physical Chemistry 4
3. Carbohydrates 9
4. Achromic Point 20
5. Proteins 22
6. Isoelectric Point 27
7. Lipids 29
8. Saponification Number 32
9. Iodine Number 33
10. Formal Titration 35
11. Gastric Analysis 37
12. Urine Analysis 40
13. Food Analysis 48
14. Collection and Preparation of Blood Specimen 51
15. Urinary Reducing Sugars 56
16. Urinary Chlorides 60
17. Urinary Creatinine 63
18. Ascorbic Acid in Urine 66
19. Serum Uric Acid 68
20. Colorimetry 70
21. Blood Sugar 74
22. Glucose Tolerance Test (GTT) 77
23. Blood Urea 80

24. Urea Clearance *83*

25. Blood Cholesterol *85*

26. Serum Calcium *87*

27. Inorganic Phosphorus *90*

28. Serum Total Proteins and Albumin: Globulin Ratio *92*

29. Serum Bilirubin *95*

30. Prothrombin Time *98*

31. Liver Function Tests *100*

32. Demonstrations *104*

Appendix *121*

Questions Analysis 121

Normal Values 124

Index 127