Contents

Chapter 1: Pharmacy Introduction 1

Chapter 2: Pharmaceutical Processes 5
- Size reduction *5*
- Separation *6*
- Heating operation *6*
- Extraction process *7*

Chapter 3: Pharmacy Practical 8
- Supply *9*
- General directions for pharmacy and dispensing *9*
- Precautions while weighing and measuring *9*
- Mixtures *10*
- Some practical points of mixtures *14*
- Ammoniated camphor liniment IP (liniment for painful visceral condition) *21*
- Methyl salicylate liniment NF (liniment for painful joint) *21*
- Precautions of preparing ointments *26*

Chapter 4: Incompatibilities 28

Chapter 5: Drug Interactions 30
- Therapeutically useful interactions *30*

Chapter 6: Prescription Writing 39

Chapter 7: Problem-based Learning in Clinical Pharmacology 47
- Problem 1 *47*
- Problem 2 *48*
- Problem 3 *48*
- Problem 4 *49*
- Problem 5 *49*
- Problem 6 *49*
- Problem 7 *50*
- Problem 8 *50*

- Problem 9 *51*
- Problem 10 *51*
- Problem 11 *51*
- Problem 12 *52*
- Problem 13 *52*
- Problem 14 *53*
- Problem 15 *53*
- Problem 16 *54*
- Problem 17 *54*
- Problem 18 *54*
- Problem 19 *55*
- Problem 20 *56*
- Problem 21 *56*
- Problem 22 *57*
- Problem 23 *57*
- Problem 24 *57*
- Problem 25 *58*
- Problem 26 *58*
- Problem 27 *58*
- Problem 28 *58*
- Problem 29 *59*
- Problem 30 *59*
- Problem 31 *59*
- Problem 32 *60*
- Problem 33 *60*

Chapter 8: Some Terminologies in Dental Pharmacology 61

Chapter 9: Experimental Animals 63

Chapter 10: Breeding Types in Experimental Animals 65

Chapter 11: Anesthetics for Laboratory Animals 66

Chapter 12: Different Instruments Used in Experimental Pharmacology 67

Chapter 13: Set up an Experiment of Isolated Perfused Frog Heart 71
- Experimental subject: Pithed-frog *71*

Chapter 14: To Study the Effects of Drugs on Isolated Rabbit Intestine 73

Chapter 15: Some Common Isolated Tissue Preparations 76
- Guinea pig *76*
- Rabbit *77*

- Rat *77*
- Hamster *77*
- Cat *78*
- Frog *78*

Chapter 16: To Demonstrate the Effect of Different Drugs on BP, Heart Rate on Dogs **80**

Chapter 17: Biostatistics and Bioassay **83**
- Summing up of data *83*

Chapter 18: Experiments **92**
- Object *92*
- Experiment 1 *92*
- Experiment 2 *93*
- Experiment 3 *94*
- Experiment 4 *96*
- Experiment 5 *96*
- Experiment 6 *97*
- Experiment 7 *98*
- Some evaluation techniques *101*
- Evaluation of anti-inflammatory drugs *102*
- Evaluation of drugs affecting intestinal motility *102*

Chapter 19: Some Common Instruments and Physiochemical Techniques **104**
- Photometry *104*
- Chromatography *105*
- Radioimmunoassay *105*
- Enzyme immunoassay *106*

Chapter 20: Prescription Criticism **107**
- Prescription criticism 1 *108*
- Prescription criticism 2 *109*
- Prescription criticism 3 *110*
- Prescription criticism 4 *111*

Chapter 21: Chart Interpretation **112**
- Chart 1 *112*
- Chart 2 *113*
- Chart 3 *113*
- Chart 4 *114*

Chapter 22: Instruments and Specimens **115**
- Instrument *115*

Chapter 23: Some Common Instruments Used in Experimental Pharmacology **118**

Chapter 24: Multiple Choice Questions with Answers **121**

Index *189*