Contents

SECTION-1: Working in Experimental Lab

1.	Common Laboratory Animals	3
2.	Some Basic Equipment	5
3.	Starting an Experiment	10
4.	Effects of Drugs on Isolated Heart of Frog	13
5.	Experiments with Isolated Intestinal Smooth Muscle	21
6.	Experiments on Rabbit-Eye	25

SECTION-2: Working in Pharmacy Lab

7.	Introduction	31
8.	Metrology [Weights and Measures]	33
9.	Prescription Writing	36
10.	Dosage Forms	42
11.	Pharmacy Exercises	55
	Exercise 1: Carminative Mixture	55
	Exercise 2: Sodium Salicylate Mixture	60
	Exercise 3: Expectorant Mixture	63
	Exercise 4: Astringent Mixture	66
	Exercise 5: Diaphoretic Mixture	69
	Exercise 6: Condy's Lotion	73
	Exercise 7: Calamine Lotion	76
	Exercise 8: Castor Oil Emulsion	78
	Exercise 9: Oral Rehydration Salt (ORS)	81
	Exercise 10: Siedlitz Powder	87
	Exercise 11: Sulphur Ointment	91
	Exercise 12: Whitfield's Ointment	96
	Exercise 13: Boric Acid Ear Drops	99
12.	Instruments Commonly used in Pharmacy Lab	102

SECTION-3: Learning Skills

(*In accordance with syllabus prescribed by Medical Council of India*)

13. Starting Intravenous Lines 107
14. Posology 109
15. Test for Penicillin Hypersensitivity 112
16. Therapeutic Drug Monitoring 114
17. Essentials of Clinical Trial 116
18. Sources of Drug Information-how to Retrieve Information 119
19. Critical Appraisal of Drug Promotional Literature 122
20. Drug Package Inserts 124
21. ADR Monitoring-Pharmacovigilance 126
22. P-Drug Concept 128
23. Essential Drug List 131

SECTION-4: Appendices

Appendix 1: Informed Consent Form Template *135*
Appendix 2: Outline of a Typical Study Protocol for Clinical Study *145*
Appendix 3: ADR Form *147*
Appendix 4: Pharmacovigilance Programme of India (PVPI) *149*
Appendix 5: WHO Model List of Essential Medicines 17th List 2011 *150*
Appendix 6: National List of Essential Medicines of India 2011 *188*
Appendix 7: Interesting Historical Facts that led to Development of Autonomic Nervous System *228*
Appendix 8: Question Bank *229*