## **Pharmacy Prep**

# Pharmaceutical Sciences

## **Review Book and Guide**

Misbah Biabani, Ph.D Director Toronto Institute of Pharmaceutical Sciences (TIPS) Inc. Toronto, ON M2N 6K7

## Pharmacy Prep

Professional Exams Preparation Center 5460 Yong St. Suites # 209 and 210, Toronto, ON, M2N 6K7 <u>WWW.PHARMACYPREP.COM</u> 416-223-PREP (7737) / 647-221-0457 Toronto Institute of Pharmaceutical Sciences Inc. © 2000 to 2011 TIPS Inc. All Rights Reserved.

Copyright © 2000-2011 TIPS Inc. Unauthorized reproduction of this manual is strictly prohibited and it is illegal to reproduce without permission. This manual is being used during review sessions conducted by PharmacyPrep.

1

#### Disclaimer

Your use and review of this information constitutes acceptance of the following terms and conditions:

The information contained in the notes intended as an educational aid only. It is not intended as medical advice for individual conditions or treatment. It is not a substitute for a medical exam, nor does it replace the need for services provided by medical professionals. Talk to your doctor or pharmacist before taking any prescription or over the counter drugs (including any herbal medicines or supplements) or following any treatment or regimen. Only your doctor or pharmacist can provide you with advice on what is safe and effective for you. Pharmacy prep make no representation or warranty as to the accuracy, reliability, timeliness, usefulness or completeness of any of the information contained in the products. Additionally, Pharmacy prep does not assume any responsibility or risk for your use of the pharmacy preparation manuals or review classes.

In our teaching strategies, we utilize lecture-discussion, small group discussion, demonstrations, audiovisuals, case studies, written projects, role play, gaming techniques, study guides, selected reading assignments, computer assisted instruction (CAI), and interactive video discs (IVD).

Our preparation classes and books are not intended as substitute for the advice of NABPLEX<sup>®</sup>. Every effort has been made to ensure that the information provided herein is not directly or indirectly obtained from PEBC<sup>®</sup> previous exams or copyright material. These references are not intended to serve as content of exam nor should it be assumed that they are the source of previous examination questions.

©2000-2011 TIPS Inc. All rights reserved.

Foreword by Misbah Biabani, Ph.D Coordinator, Pharmacy Prep Toronto Institute of Pharmaceutical Sciences (TIPS) Inc 5460 Yonge St. Suites 209 and 210 Toronto ON M2N 6K7, Canada

2

## Content

### Part 2: Pharmaceutical Sciences

- 1. <u>Pharmacy Calculations</u>; Ratio and Proportions
- 2. <u>Pharmacy Calculations; Dilutions and Allegations</u>
- 3. <u>Pharmacy Calculations; Dose calculations</u>
- 4. <u>Pharmacokinetics</u>
- 5. Rates and Orders of Reactions
- 6. <u>Pharmacodynamics</u>
- 7. <u>Basics of Medicinal Chemistry</u>
- 8. <u>Medicinal Chemistry and Pharmacology of Autonomic Nervous System Drugs.</u>
- 9. <u>Medicinal Chemistry and Pharmacology of Histamines, Serotonin, Prostaglandin and</u> <u>Non-Steroidal Anti-inflammatory Drugs</u>
- 10. <u>Medicinal Chemistry and Pharmacology of Cardiovascular Drugs</u>
- 11. Medicinal Chemistry and Pharmacology of Psychiatric & Neurological Drugs
- 12. Medicinal Chemistry and Pharmacology Endocrine Drugs
- 13. Medicinal Chemistry and Pharmacology of Respiratory Drugs
- 14. Medicinal Chemistry and Pharmacology of Musculoskeletal Drugs
- 15. Medicinal Chemistry and Pharmacology of Antimicrobial Drugs
- 16. Drug Metabolism
- 17. Biopharmaceutics
- 18. Physical Pharmacy
- 19. Pharmaceutical Excipient
- 20. <u>Rheology</u>
- 21. Pharmaceutical Dosage Forms
- 22. Drug Delivery Systems
- 23. <u>Sterile Preparations</u>
- 24. Extemporaneous Pharmaceutical Preparations
- 25. Pharmaceutical Analysis