

Pharmacology (MSc.)

Reference: Lippincott Illustrated Reviews: Pharmacology 7th edition

I: Principles of Drug Therapy

II: Drugs Affecting the Autonomic Nervous System

III: Drugs Affecting the Central Nervous System

IV: Drugs Affecting the Cardiovascular System

V: Drugs Affecting the Endocrine System

VI: Chemotherapeutic Drugs (only antimicrobials)

VII: Special Topics in Pharmacology (with only focus on drugs for GIT and respiratory and urological disorders)

Community pharmacy (MSc.)

Reference: Community pharmacy; Symptoms, diagnosis and treatment, Paul Rutter, 4th edition

Chapter 2: Respiratory system

Chapter 3: Ophthalmology

Chapter 4: Ear conditions

Chapter 5: Central nervous system

Chapter 6: Women's health

Chapter 7: Gastroenterology

Chapter 9: Musculoskeletal conditions

Chapter 10: Pediatrics

Pharmacy management (MSc.)

Reference: Essentials for all pharmacy settings; Shane and David, 2nd edition

Section I Why Study Management in Pharmacy School

Chapter 2 Management Functions

Section II Managing Operations

Chapter 5 General Operations Management

Section III Managing People

Chapter 9 Human Resource Management

Chapter 11 Customer Service

Chapter 14 Leadership in Pharmacy action IV Managing Money

Chapter 15 Financial Report

Section V Managing Goods and Services

Chapter 20 Marketing Theory

Section VI Managing Value-Added Services

Chapter 24 Appraising the Need for Value-Added Services

Section VII Managing Risks in Pharmacy Practice

Chapter 30 preventing and Managing Medication Errors

Clinical pharmacy (Higher diploma)

Reference: Clinical pharmacy and therapeutics by Walker

1.General

2.Cardiovascular

3.Respiratory system

4.Endocrine system

Clinical pharmacy (MSc.)

Reference: Applied therapeutic the clinical use of drugs, Koda-Kimble and Young, 10th edition

1. Cardiovascular system
2. Pulmonary disorder
3. Gastrointestinal disorder
4. Endocrine disorder
5. Psychiatric disorder

Clinical Toxicology (Higher diploma)

Reference: Modern medical toxicology, 4th edition, W Pillay

1. Neurotoxic poison
2. General principle and managements
3. Anticonvulsants and Antiparkinsonian drugs
4. Drug abuse
5. Cardiovascular poisons
6. Asphyxiant poison
7. Analgesics and Antihistamines
8. Anti-infectives

Immunology Ph.D.

Reference 1: Medical genetics and genomics: Chapter 3 'Genetic variation'

Reference 2: Clinical immunology: Chapter one

Reference: 3: Review of medical microbiology.

Reaction of immune system against pathogens.

Host defenses.

- Bacterial toxin.

Reference 4: Introductory chapter: Immunogenetics

Physiology M.Sc.

Reference: Text book of Guyton and John E. Hall 2015.

1-Cardiovascular system.

2-Endocrine system

3-Nervous system.

4-Respiratory system.

5-Regulation of acid - base balance.

6-Gastrointestinal tract system.

Molecular biology PhD

Reference 1: Jawetz, Melnick and Adelbery's Medical micro biology Twenty - Eight edition 2019: Chapter 7 and 47.

Reference 2: Medical genetics and genomics: Chapter 3, Genetic Variation.

Clinical biochemistry PhD

Reference: Teitz text book of clinical and metabolic diagnostics.

1-Clinical chemistry and medical medicine

2-Liver function test.

3-Kidney function test.

4-Quality control biochemistry.

5-Endocrinology.

6-Abnormal carbohydrate metabolism.

7-Acid base balance.

8-Water and electrolytes

9-Inborn error of metabolism

Medical microbiology PhD

Reference 1: Review OF Medical Microbiology and Immunology.

- Normal flora.

Pathogenicity.

- Antibiotics resistance.

- Mode of action of antibiotics.

- Host defense.

Reference 2: Text book on medical microbiology.

- Normal flora of human body/page 14-26.

Pharmaceutics; MSC.

Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems

Chapters:

Section I. Introduction to Drugs, Drug Dosage Forms, and Drug Delivery Systems

Section II. Drug Dosage Form and Drug Delivery System Design

Section III. Solid Dosage Forms and Solid Modified-Release Drug Delivery Systems

Section IV. Semisolid Dosage Forms and Transdermal Systems

Section VI. Liquid Dosage Forms

Cosmoceuticals; MSC

Cosmeceuticals and Active Cosmetics

Third Edition

Chapters:

1. Bakuchiol: A Retinol-Like Functional Compound, Modulating Multiple Retinol and Non-Retinol Targets
2. Anti-Aging Topical Peptides and Proteins
3. Decorative Cosmetics
4. Hair Cosmetics and Cosmeceuticals
5. Moisturizers: Treatment of Dry Skin Syndrome and Barrier Defects
6. Botanicals and Cosmeceuticals for Sun Protection
7. UV Care

Pharmaceutics; PhD.

The Science of Dosage Form Design Form Design

By Aulton

Chapters;

- Part One; Scientific Principles of Dosage Form Design
- Part Two; Particle Science and Powder Technology
- Part Three; Biopharmaceutical Principles of Drug Delivery

Medicinal chemistry MSc

Reference: Organic medicinal and pharmaceutical chemistry: Wilson and Gisvold, 12th edition.

Chapter 2 drug design

Chapter 3 metabolic changes

Chapter 4 biotechnology and drug discovery

Chapter 5 immunobiologicals

Pharmacognosy M.Sc.

Reference: Pharmacognosy- 16th ed. Trease & Evans (2009).

- 1-General methods associated with the phytochemical investigation of herbal products
- 2- Glycosides
- 3- Alkaloids
- 4-Volatile oils

Organic chemistry MSc and PhD

Reference: Morison and Boyd

- 1.Spectroscopy
- 2.Stereochemistry
- 3.Six membered heterocyclic compounds
- 4.Five membered heterocyclic compounds
- 5.Nucleophilic substitution reactions

Analytical chemistry PhD

- 1.Quantitative Chemical Analysis by Daniel C. Harris, 9th Edition, (Chapter 23).
- 2.Introduction to Pharmaceutical Analytical Chemistry by Stig-Pedersen et al. (John Wiley & Sons), 2nd Edition (Chapter 4 & 6).
- 3.Principles of Instrumental Analysis by Douglas A. Skoog, 5th Edition (Chapter 13 & 14).
- 4.Fundamentals of Analytical Chemistry by Douglas A. Skoog, 8th Edition (Chapter 1).