

□ **Section 1: Pharmacy****Pharmaceutics**♦ **Metrology**

- Systems of weights and measures (metric, apothecary, avoirdupois)
- Calculations involving dilution and concentration

♦ **Prescriptions**

- Parts of a prescription
- Latin abbreviations
- Types of prescriptions (simple, compound)

♦ **Sterilization**

- Methods: Steam, Dry heat, Filtration, Radiation
- Applications in pharmaceutical preparations

♦ **Processing of Tablets**

- Tablet formulation and excipients
- Granulation methods (dry/wet)
- Defects in tablets and remedies

♦ **Processing of Capsules**

- Hard and soft gelatin capsules
- Filling and sealing methods
- Capsule evaluation tests

**Pharmaceutical Chemistry**♦ **Acids, Bases, and Buffers**

- Definitions, pH, pKa, buffer action
- Importance in drug formulation

♦ **Antimicrobials and Astringents**

- Common antimicrobial agents and their uses
- Mechanism of action
- Use of astringents in formulations

♦ **Pharmaceutical Organic Compounds**

- Classification and properties
- Functional groups and medicinal significance

♦ **Anesthetics**

- Local vs general anesthetics
- Mechanism of action
- Common drugs and side effects

### ♦ **Drugs**

- Classification (based on action, source, chemical nature)
- Basic chemical structure of common drugs

## Pharmacognosy

### ♦ **Adulteration and Drug Evaluation**

- Types of adulteration (intentional, unintentional)
- Evaluation methods: Physical, chemical, microscopic

### ♦ **Pharmaceutical Aids**

- Natural and synthetic pharmaceutical aids
- Examples: Acacia, gelatin, starch, talc

### ♦ **Miscellaneous Drugs**

- Selected examples from natural sources
- Uses and active constituents

## Biochemistry, Clinical Pathology, Anatomy & Physiology

### ♦ **Biochemistry**

- Biomolecules: Carbohydrates, Proteins, Lipids
- Enzymes: Types and functions
- Metabolism basics

### ♦ **Clinical Pathology**

- Blood tests, urine tests, their interpretations
- Common pathological conditions

### ♦ **Human Anatomy and Physiology**

- Systems: Digestive, Cardiovascular, Nervous, Respiratory
- Organs and their functions
- Important physiological processes

## Health Education, Toxicology, Pharmacology

### ♦ **Health Education & Community Pharmacy**

- Role of pharmacist in health education
- Immunization schedules
- National health programs

### ♦ **Toxicology**

- Definition and types of poisons
- First aid for poisoning
- Common antidotes

### ♦ **Pharmacology**

- Routes of administration
- Dose-response relationship
- Classification and mechanism of action of common drug classes

## Jurisprudence, Management, Hospital Pharmacy

### ◆ Pharmaceutical Jurisprudence

- Drug and Cosmetic Act, Pharmacy Act, NDPS Act
- Schedules and licenses

### ◆ Drug Store and Business Management

- Inventory control techniques
- Bookkeeping and sales records
- Marketing and purchasing strategies

### ◆ Hospital and Clinical Pharmacy

- Roles and responsibilities
- Drug distribution systems
- Patient counseling and drug interactions

## □ Section 2: General Aptitude (20 MCQs Expected)

### ◆ General Aptitude

- Number series, Simplification, Ratio-Proportion, Time-Work

### ◆ Reasoning

- Analogy, Coding-Decoding, Blood Relations, Series

### ◆ General Awareness

- Current Affairs (Health & Pharma sector), Basic Science
- Indian healthcare system, Government Schemes

### ◆ Basic Computer Knowledge

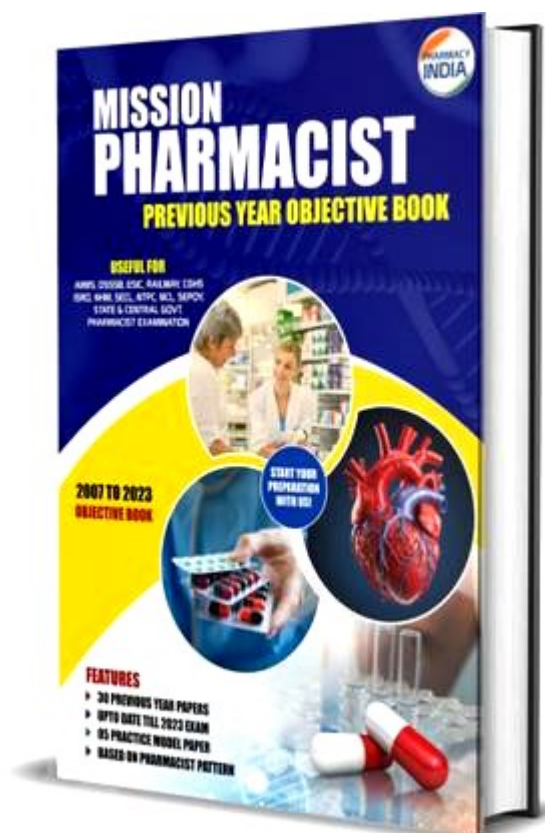
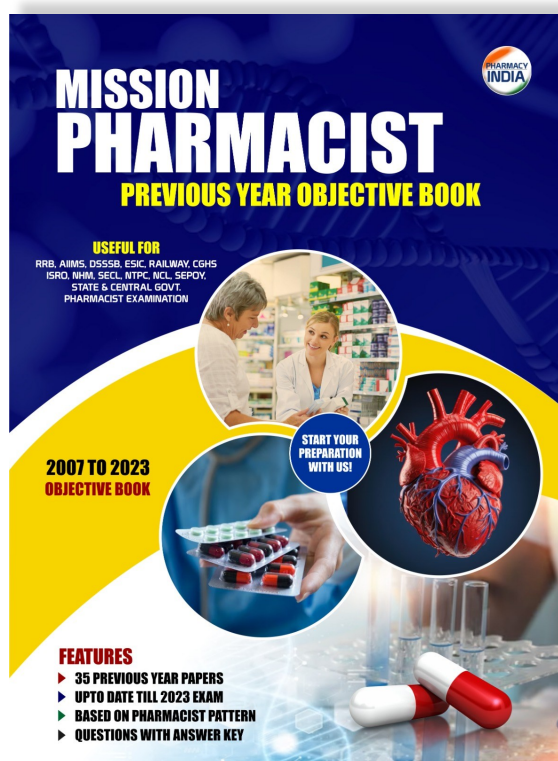
- Basics of MS Office
- Internet and Email
- Hardware & Software basics

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