

**SYLLABUS FOR THE WRITTEN TEST – PHASE II**

**Name of the Post: Technical Assistant Gr.II (Pharmacist)**

Section	Subject	No of Questions	Max Marks	Exam Duration
1	Introduction to Pharmacopoeias	20	20	90 minutes
2	Prescription			
3	Sterilization			
4	Antigens & Antibodies			
5	First Aid, Fundamental principles of microbiology & Communicable Diseases			
6	Anatomy and Physiology of human	20	20	
7	The chemistry of following class of Pharmaceutical Organic Compounds	20	20	
8	Pharmacology of class of drugs	20	20	
9	Carbohydrates, Vitamins & Therapeutics	10	10	
10	Pharmacy, Drugs and Cosmetic Acts	10	10	
<b>Total</b>		<b>100</b>	<b>100</b>	

**1. INTRODUCTION TO PHARMACOPOEIAS** with special reference to the IP.

**2. PRESCRIPTION:**

Prescriptions, Latin terms and Incompatibilities in prescriptions (Physical, Chemical and Therapeutic).

**3. STERILIZATION:** Definition, Types, Procedure and Testing.

**4. ANTIGENS & ANTIBODIES:** Antigens, Antibodies, Hypersensitivity, Immunity types, Types of Vaccines and Monoclonal antibodies.

**5. FIRST AID, FUNDAMENTAL PRINCIPLES OF MICROBIOLOGY & COMMUNICABLE DISEASES:**

**First Aid:** Emergency treatment in shock, snake bite, burns, heart disease, fractures and resuscitation methods, Elements of minor surgery and dressings

**Fundamental principles of microbiology:** Microbes, isolation and staining techniques

**Communicable Diseases:** Causative agents, mode of transmission and prevention of chickenpox, measles, influenza, diphtheria, whooping cough, tuberculosis, poliomyelitis, Hepatitis, cholera, typhoid, food poisoning, hookworm infection, plague, malaria, filariasis, rabies, trachoma, leprosy, syphilis, gonorrhoea, AIDS.

## **6. ANATOMY AND PHYSIOLOGY OF HUMAN**

Skeletal System, Cardiovascular System, Haemopoietic System, Respiratory System, Urinary System, Muscular System, Central Nervous System, Autonomic Nervous System, Sensory organs, Digestive System, Endocrine System and Reproductive System.

## **7. THE CHEMISTRY OF FOLLOWING CLASS OF PHARMACEUTICAL ORGANIC COMPOUNDS**

Antiseptics and Disinfectants, Sulphonamides, Antileprotic Drugs, Anti-tubercular Drugs, Antiamoebic and Antihelminthic Drugs, Antibiotics, Antifungal agents, Antimalarials, Tranquilizers, Hypnotics and Sedatives, General Anaesthetics, Antidepressants, Analeptics, Adrenergic antagonists, Cholinergics, Cholinergic Antagonists, Diuretics, Cardiovascular Drugs, Hypoglycemic Agents, Coagulants and Anticoagulants, Local Anaesthetics, Histamine and Antihistaminic agents, Analgesics and Antipyretics, NSAIDS, Thyroxine & Antithyroids, Anticonvulsants, Cardiac glycosides, Anti-arrhythmic, Antihypertensives, Vitamins, Steroids & AntiNeoplastic Drugs.

## **8. PHARMACOLOGY OF CLASS OF DRUGS:**

Sources of drugs, Routes of administration of drugs, Various processes of absorption, metabolism, distribution and excretion of drugs, General mechanism of drug action and drug interactions.

General Anaesthetics, Analgesics and Antipyretics, NSAIDS, Narcotic Analgesics, Antirheumatic, Sedatives & Hypnotics, Antipsychotics, Anticonvulsants, Analeptics, Muscle Relaxants, Antiparkinsonism agents, Local Anaesthetics, Cholinergic drugs, Anticholinergic drugs, Adrenergic drugs and Adrenergic antagonists, Mydriatics, Respiratory stimulants, Bronchodilators, Nasal decongestants, Expectorants and Antitussive agents, Autocoids, Cardiotonics, Antiarrhythmic agents, Anti-anginal agents, Antihypersensitive agents, Peripheral Vasodilators.

## **9. CARBOHYDRATES, VITAMINS & THERAPEUTICS:**

Classification, Qualitative tests, Biological value, Deficiency and diseases related to metabolism of **Carbohydrates, Proteins and Lipids.**

**Vitamins:** Brief Chemistry and role of vitamins, enzymes, coenzymes and minerals.

**Therapeutics:** Introduction to Pathology of blood and urine, Lymphocytes and platelets, their role in health and disease. Erythrocyte-Abnormal cells and their significance, Abnormal constituents of urine and their significance in diseases.

## **10. PHARMACY, DRUGS AND COSMETIC ACTS**

**Pharmacy Act 1948** - Registration Procedure under act.

**The Drugs and Cosmetic Act 1940:** Drugs and Cosmetic Act and the Rules, Composition and functions of statutory bodies, Facilities to be provided for running a pharmacy effectively and General study of schedules.

**Narcotic Drugs and Psychotropic Substances Act, 1985:** A brief study of the act with special reference to its objectives, procurement and utilization of dosage forms, offences and punishment.



**--Sd--  
DIRECTOR**