

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER
SYLLABUS OF SCREENING TEST FOR THE POST OF
SENIOR DEMONSTRATOR- PHARMACOLOGY
MEDICAL EDUCATION DEPARTMENT

General Pharmacology

- Introduction to Pharmacology
- Pharmacokinetics: Absorption, Distribution, Metabolism and Excretion of drugs
- Pharmacodynamics: Mechanism of action and factors modifying action of Drugs, Drug-Drug interactions
- New drug development and Clinical trials
- Adverse drug reactions
- Pharmacovigilance
- Rational use of Drugs
- Concept of essential drugs
- Drugs use in pregnancy, lactation and geriatrics pharmacology

Autonomic Nervous System

- Introduction to ANS
- Cholinergics and Anti-cholinergics
- Adrenergics and Anti-adrenergic Drugs
- Drugs acting on Autonomic Ganglion

Peripheral Nervous System

- Skeletal Muscle relaxants
- Local anaesthetics

Autacoids

- Histamine and Anti-Histaminics, Prostaglandins, Leukotrienes and Platelets Activating Factors, 5-HT Agonists and Antagonists

Central Nervous System

- Introduction to CNS
- Alcohols
- General Anaesthetics
- Opioid Analgesics
- Non-steroidal anti-inflammatory drugs including drug treatment of Rheumatoid Arthritis and Gout
- Sedatives and Hypnotics
- Anti-epileptics
- Psychopharmacology- Antipsychotics, antianxiety drugs, antidepressants, antimanic agents
- Anti-parkinsonian drugs
- CNS Stimulants and cognition enhancers
- Drug Abuse

Respiratory System

- Drugs use in Cough and treatment of Bronchial Asthma

Renal System

- Diuretics and Antidiuretics
- Drugs affecting Renin-Angiotensin System and Plasma kinins

Cardiovascular System

- Cardiac Glycosides and treatment of Congestive Heart Failure
- Antianginal drugs
- Antihypertensives,
- Antiarrhythmics
- Drugs for shock

Drugs acting on Blood and Blood formation

- Hematinics
- Antiplatelet drugs
- Coagulants and anti coagulants
- Fibrinolytics

- Hypolipidemic drugs

Gastrointestinal System

- Drug treatment of peptic ulcer
- Emetics, Antiemetics and Prokinetics
- Purgatives
- Antidiarrheals
- Drugs for Inflammatory Bowel Disease

Endocrinology

- Anterior and Posterior pituitary hormones
- Drugs affecting Calcium Metabolism
- Thyroid and Antithyroid drugs
- Drugs for Diabetes Mellitus
- Corticosteroids
- Male and Female Sex Hormones including Contraceptives
- Drugs acting on Uterus

Antimicrobial Agents

- General consideration to Antimicrobials
- Sulphonamides and Quinolones
- Beta-lactams (Penicillins, Cephalosporins, Carbapenems and Monobactams)
- Tetracyclines and Chloramphenicol
- Macrolides and miscellaneous antibiotics
- Urinary antiseptics
- Drug treatment of sexually transmitted diseases
- Aminoglycosides
- Chemotherapy of Tuberculosis and Leprosy
- Antiamebic drugs
- Antimalarials
- Anthelmintics
- Antifungals
- Antiviral drugs and AntiHIV drugs

Chemotherapy of Neoplastic diseases

- Anticancer drugs

Miscellaneous Topics

- Immunosuppressants and Immunomodulators
- Chelating Agents and treatment of Heavy Metal Poisoning
- Gene Therapy
- Vitamins
- Antiseptics and Disinfectants
- Vaccines

Note :- Pattern of Question Paper

1. Objective type paper
2. Maximum Marks :100
3. Number of Questions :100
4. Duration of Paper : Two Hours
5. All questions carry equal marks.
6. There will be Negative marking.
