

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR SCREENING TEST FOR THE POST OF

SENIOR DEMONSTRATOR - PHARMACOLOGY

(MEDICAL AND HEALTH DEPARTMENT)

General Pharmacology:

Routes of drug administration, mechanism of drug action, factors modifying drug action and doses, Pharmacokinetic parameters, Drug absorption, Distribution, Metabolism (biotransformation) and excretion, Adverse drug reactions, drug-use in pregnancy and importance of drug-drug interactions. Concept of Essential medicines, rational use of medicines, Basic principles of drug discovery and clinical trials.

Central Nervous Systems:

Alcohols, General anesthetics, non-steroidal anti-inflammatory drugs including drug treatment of rheumatoid arthritis and gout; opioid analgesics; Hypnotics and sedatives, anti-anxiety drugs, antiepileptics, anti-parkinsonian drugs, antipsychotics, antidepressants, antimanic agents; CNS stimulants and cognitive enhancers; Drug abuse

Autonomic Nervous System:

Autonomic neurotransmitters, cholinergic and anticholinergic drugs, adrenergic and antiadrenergic drugs.

Peripheral Nervous System:

Skeletal muscle relaxants and Local anesthetics.

Cardiovascular system: Drugs for congestive heart failure, Antianginals, Antihypertensives, antiarrhythmics, Drugs for Shock.

Diuretics and Antidiuretics

Haemopoietic system:

Hematinics, Coagulants and anticoagulants, Antiplatelet drugs, Fibrinolytics, Drugs for hyperlipidemia.

Gastrointestinal system:

Drugs for acid-peptic disorders, Antiemetics & prokinetics, antidiarrheals, Purgatives & Cathartics, Drugs for inflammatory bowel disease.

Autacoids:

Histamine and Antihistaminics, prostaglandins and antiprostaglandins, 5-HT agonists and antagonists.

Respiratory System:

Cough expectorants, mucolytics and cough suppressants, Drugs used in Bronchial asthma.

Hormones:

Anterior and posterior pituitary hormones, thyroid and antithyroid drugs, Insulins and antidiabetics, corticosteroids, Male and female sex hormones including contraceptives, Drugs affecting calcium metabolism.

Chemotherapy:

General Principles, Sulphonamides. Quinolones, Betalactams(Penicillins, cephalosporins, Carbapenems and Monobactams), Aminoglycosides, Macrolides & ketolides, Tetracyclines and chloramphenicol, Antifungal agents, Antiviral & Anti HIV drugs, Miscellaneous antibiotics, Anti cancer drugs.

Chemotherapy of Tuberculosis, Leprosy, Amebiasis, Malaria, helminthiasis, urinary Tract infection and Sexually transmitted diseases

Miscellaneous agents:

Heavy metal antagonists, immunosuppressants & immunomodulators, gene therapy.

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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.

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