

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR SCREENING TEST FOR THE POST OF CHEMIST (PHARMACY) (AYURVEDA DEPARTMENT)

DUTIES OF CHEMIST:

- To test organic as well as in-organic products those are used or likely to be used in the Government Ayurvedic Pharmacy.
- To test the medicines manufactured at the Government Ayurvedic Pharmacy and record his opinion about their genuiness.
- To test the food samples received from the Food and Drugs Administration and give his opinion and attend the Court of Law whenever so required.
- To evolve methods for standardization of finished products of the Government Ayurvedic Pharmacy.
- He/She shall be responsible to the In-charge of the Drugs Testing Laboratory.

1. Pharmaceutical Analysis: Different techniques of analysis. Neutralization titrations, Non aqueous titrations, precipitation titrations, Complexometric titrations, Oxidation–reduction titrations, Gravimetric analysis, Kjeldhal method of nitrogen estimation, Karl Fischer method. Chromatography, Ion Exchangers, Potentiometric titrations, Conductometric titrations, Thermal Analysis, Polarography, Amperometry, Electrophoresis, Turbidimetry and Nephelometry, UV and Visible Spectrophotometry, Fluorimetry, Nuclear Magnetic Resonance Spectroscopy, Mass Spectrometry, Flame Photometry, Emission Spectroscopy, Atomic Absorption Spectroscopy, X-Ray diffraction & Radio Immuno Assay.

2. Pharmaceutics: Pharmaceutical Calculations, Posology, Powders, Solutions, Aromatic Waters, Mixtures, Emulsions, Lotions, Liniments, Paints, Lozenges, Jellies, Pastes, Suppositories, Tablet, Capsules, Emulsions, Suspensions, Ointment, Suppositories, Creams, Pastes, Ophthalmic Preparations, Suppositories, Sterile Products. Cosmetics. Novel drug delivery systems.

3. Pharmacology: Drugs acting on autonomic nervous system, Autocoids and their antagonists, Cardio Vascular drugs, Drugs acting on respiratory tract, Drugs acting on endocrine system.

Bioassay.

Pharmacology of the following groups of drugs – Drugs acting on central nervous system, Local anesthetics, Drugs acting on uterus, Drugs affecting renal function: Diuretics & anti-diuretics, Drugs acting on the blood & blood forming organs, Pharmacology of vitamins , Heavy metals & Heavy metal antagonists, Enzyme in therapy, Therapeutic gases, Drugs acting on skin.

4. Pharmaceutical Jurisprudence: Pharmacy Act 1948, Drugs & Cosmetics Act 1940, Medicinal Toilet Preparations (Excise Duties) Act and Rules, Narcotic Drugs & Psychotropic Substances Act, Drugs & Magic Remedies (Objectionable Advertisements) Act, Drug Prices Control Order, AICTE Act, Patents Act, Trade & Merchandise Marks Act, States Shops & Establishments Act, Minimum Wages Act, Factories Act, Prevention of Food Adulteration Act & Rules, Prevention of, Cruelty to Animals Act, Medical Termination of Pregnancy Act, The Poisons Act.

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Pattern of Question Papers:

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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