

SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF ASSISTANT PHARMACEUTICAL CHEMIST
IN
GOA MEDICAL COLLEGE
(Adv 03 Year 2025)

I. General English including Grammar - 10 marks

II. General Knowledge, Current Affairs and Events of National and International Importance - 10 marks

III. Logical Reasoning and Analytical Ability - 25 marks

IV. Core: - 30 marks

1. Pharmaceutical Calculations and Concentration Expressions

- Molality, Molarity, Normality
- Dilutions and alligation
- Dosage calculations and volume adjustments

2. Drug Storage and Inventory Management

- Principles of stock maintenance and control
- Indenting and procurement processes
- Drug issue registers and record-keeping
- Good storage practices and temperature control (including refrigerators)

3. Dispensing Pharmacy Practice

- Supervision of dispensing workflow
- Prescription interpretation and labeling
- Patient counseling basics
- Maintenance of dispensing records and accountability

4. Basics of Pharmaceutical Chemistry

- Acid-base concepts relevant to drug formulations
- Buffers and pH in pharmaceutical systems
- Stability and degradation of drugs influenced by pH

5. Quality Control and Assurance in Pharmacy

- Identification and minimization of errors in dispensing and inventory
- Accuracy, precision, and significance in pharmaceutical analysis
- Standard Operating Procedures (SOPs) and documentation

6. Pharmaceutical Analysis Techniques

- Volumetric analysis: Acid-base, redox titrations, and EDTA titrations
- Use of indicators and calculations in titrations
- Introduction to instrumental methods (basic overview of AAS, TGA, DSC)

7. Drug Dosage Forms and Routes of Administration

- Classification and characteristics of dosage forms
- Selection criteria for routes of administration
- Handling and storage of various dosage forms

8. Pharmaceutical Regulations and Ethics

- Regulatory definitions of drugs and new drugs
- Legal aspects of drug storage, dispensing, and record-keeping
- Ethics in pharmacy practice

9. Cold Chain Management

- Importance and maintenance of cold chain in drug storage
- Monitoring and documentation of refrigerator temperatures
- Handling vaccines and temperature-sensitive drugs

10. Safety and Hygiene in Pharmacy

- Maintenance of cleanliness in pharmacy areas
- Handling hazardous materials and waste disposal
- Personal protective equipment and occupational safety

Note:

*** Duration for C.B.R.T : 90 Minutes**

***Maximum Marks for C.B.R.T : 75 Marks**

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