

**SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)**  
**FOR THE POST OF PHARMACEUTICAL CHEMIST**  
**UNDER**  
**GOA MEDICAL COLLEGE**  
**(Advt No 05 Year 2023)**

**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

**A. General Pharmacology**

Dosage forms, Pharmacokinetics, Pharmacodynamics

**B. Introduction to drug and dosage forms**

Definition of drug and new drug as per regulatory aspects, sources of drugs. Concept of dosage form, rationale for development of dosage form, classification of the basis of nature, routes of administration.

**C. Clinical Pharmacology**

Basics of drugs (classification and uses) in autonomic nervous system, cardiovascular system, gastrointestinal system, central nervous system, endocrine system, chemotherapy, blood, respiratory system, autacoids

**D. Pharmacy Basics**

Drugs and Cosmetics Act, Drug regulations (Rules and schedules)

**E. Modern Techniques in Pharmaceutical Analysis**

Atomic absorption spectroscopy: Basic principles, instrumentation, applications.  
Thermal analysis: Thermo-gravimetric analysis (TGA), Differential Thermal Analysis (DTA), Radiochemical Analysis Importance of Radio Isotope in medicines.

**F. Medical Devices and Acts governing medical devices**

**G. Introduction to Pharmacovigilance, ADR's and Drug Interactions**

**Note:**

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

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