

SYLLABUS FOR COMPUTER BASED RECRUITMENT TEST (CBRT)
FOR THE POST OF HEAD OF TESTING IN
GOA MEDICAL COLLEGE
(Adv 9A Year 2025)

- I. English(Comprehension) - 10 marks**
- II. English Grammar - 5 marks**
- III. General Knowledge/ Current Affairs of India and Goa - 10 marks**
- IV. Logical Reasoning - 10 marks**
- V. Core: - 25 marks**

1. Transfusion Medicine & Blood Banking

1. Principles of Blood Banking and Transfusion Practices
2. Blood Group Systems (ABO, Rh and other clinically significant systems)
3. Component Preparation, Storage and Shelf-Life Management

2. Immunohematology

1. Antigen-Antibody Reactions and Compatibility Testing
2. Cross-Matching Techniques and Antibody Screening
3. Autoimmune Hemolytic Disorders and Hemolytic Disease of Newborn

3. Transfusion Transmitted Infections (TTIs)

1. Screening for HIV, HBV, HCV, Syphilis and Malaria
2. ELISA, CLIA and Rapid Testing Methods
3. NAT (Nucleic Acid Testing) and Molecular Diagnostic Techniques

4. Clinical Pathology & Hematology

1. Hematological Investigations (CBC, Peripheral Smear, Coagulation Profile)
2. Hemostasis and Coagulation Disorders
3. Laboratory Diagnosis of Hemolytic Anemias

5. Clinical Biochemistry in Blood Testing

1. Biochemical Parameters Relevant to Blood Safety
2. Quality Control in Biochemical Testing
3. Interpretation of Laboratory Data

6. Microbiology & Sterility Assurance

1. Microbial Contamination in Blood Products
2. Sterility Testing and Aseptic Techniques
3. Biosafety Levels and Infection Control Practices

7. Quality Management Systems (QMS) in Blood Banks

1. Good Laboratory Practices (GLP) and GMP in Blood Centers
2. Internal Quality Control (IQC) and External Quality Assurance (EQAS)
3. Accreditation Standards (NABL, ISO 15189)

8. Drugs & Cosmetics Act and Regulatory Framework

1. Legal Provisions Governing Blood Banks in India
2. Licensing Requirements and Regulatory Inspections
3. Hemovigilance Programme of India (HvPI)

9. Laboratory Management & Administration

1. Standard Operating Procedures (SOPs) and Documentation
2. Inventory Management and Cold Chain Maintenance
3. Human Resource Supervision and Training

10. Ethics, Biomedical Waste & Patient Safety

1. Ethical Issues in Blood Donation and Transfusion
2. Biomedical Waste Management Rules
3. Adverse Transfusion Reactions and Reporting Mechanisms

Note:

*** Duration for C.B.R.T : 75 Minutes**

***Maximum Marks for C.B.R.T : 60 Marks**

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