

### Detail of syllabus for Mains exam (Descriptive type)

Name of post	Syllabus for descriptive exam	Reference Books
<p><b>Junior Medical Laboratory Technologist</b></p>	<p><b>Medical Laboratory Science and Medical Terminology: (10 Marks)</b></p> <ul style="list-style-type: none"> <li>- Introduction to medical laboratory science</li> <li>- Laboratory safety and biohazard precautions</li> <li>- Laboratory equipment and instruments</li> <li>- Laboratory ethics and professional conduct</li> <li>- Understanding medical terms and abbreviations</li> <li>- Prefixes, suffixes, and root words in medical terminology</li> <li>- Common medical abbreviations and their meanings</li> </ul> <p><b>Laboratory Techniques and Procedures: (20 Marks)</b></p> <ul style="list-style-type: none"> <li>- Specimen collection, handling, and processing</li> <li>- Microscopy techniques</li> <li>- Hematology tests and procedures</li> <li>- Clinical chemistry tests and procedures</li> <li>- Immunology and serology tests</li> <li>- Microbiological culture and sensitivity testing</li> <li>- Urinalysis and body fluid analysis</li> <li>- Blood banking and transfusion medicine</li> </ul> <p><b>Laboratory Quality Control and Assurance: (10 Marks)</b></p> <ul style="list-style-type: none"> <li>- Quality control measures in the laboratory</li> <li>- Calibration and maintenance of laboratory equipment</li> <li>- Internal and external quality assessment programs</li> <li>- Documentation and record-</li> </ul>	<ol style="list-style-type: none"> <li>1. Reference Books prescribed for Syllabus of all subjects of DMLT (Diploma In Medical Laboratory Technology) by recognized University and/or Regulatory authority</li> <li>2. Effective Communication and Soft Skills edited by Nitin Bhatnagar and Mamata Bhatanagar. Pearson Education India.</li> <li>3. Effective Communication Skills for Health Professionals By Philip Burnard. Springer</li> <li>4. Effective Communication Skills By R.S. Salaria, Kul Bhushun Kumar. Khanna Publishing House.</li> <li>5. Laboratory Quality Management System: Handbook Nonserial Publication Series by World Health Organization</li> </ol> <p><b>Note:</b> Applicants are advised to go through the topics of the syllabus carefully. Books mentioned here are just for reference and mere mention of any of these doesn't mean that questions will be asked from these books only.</p>

keeping in the laboratory

**Clinical Pathology: (10 Marks)**

- Understanding the principles and interpretation of laboratory results
- Hematological disorders and blood cell morphology
- Clinical chemistry markers and their significance
- Immunological and serological tests in diagnosis

**Microbiology and Infectious Diseases: (10 Marks)**

- Basics of microbiology and microbial growth
- Identification of microorganisms
- Culture and sensitivity testing for infectious agents
- Common bacterial, viral, and fungal infections

**Immunology and Serology: (10 Marks)**

- Introduction to the immune system
- Principles of immunological tests
- Serological tests for infectious and autoimmune diseases
- Blood typing and cross-matching

**Clinical Biochemistry: (10 Marks)**

- Biochemical tests for organ function assessment
- Lipid profile and cardiac markers
- Liver and kidney function tests
- Diabetes-related tests

**Histopathology and Cytology: (10 Marks)**

- Basics of histology and cytology
- Preparation and staining of tissue and cytology samples
- Microscopic examination and interpretation of histopathology

	<p>slides</p> <ul style="list-style-type: none"><li>- Common histopathological findings and diagnoses</li></ul> <p><b>Laboratory Management and Documentation: (10 Marks)</b></p> <ul style="list-style-type: none"><li>- Inventory management and stock control</li><li>- Laboratory information systems (LIS)</li><li>- Standard operating procedures (SOPs) and protocols</li><li>- Data entry, reporting, and result documentation</li></ul> <p><b>Communication and Interpersonal Skills: (10 Marks)</b></p> <ul style="list-style-type: none"><li>- Effective communication with colleagues and healthcare professionals</li><li>- Patient interaction and specimen collection</li><li>- Confidentiality and ethical considerations</li></ul>	
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