

Distribution of marks for computer based test for the recruitment of technical posts advertised through Advertisement No. 01/2023

STANDARDISED FORMAT OF ALL QUESTIONS & OTHER INPUTS

S No.	Details	Quantity
01	Total No. of Questions	100
02	Each Question carries	01 Mark
03	Negative Marking	No
04	Time Duration of Exam	02 hours

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S No.	Subject	Marks
01	General Knowledge	50 Marks
	Test of Reasoning	
	General Aptitude	
	Basic English	
	Basic Mathematics / Basic Computer	
02	ICMR Related	10 Marks
03	Subject Specialization	40 Marks
Total		100 Marks

Post	Syllabus for the subject specialization (For 40 Marks)
<p>Technical Assistant</p> <p>Group 'B' (Non-Ministerial)</p>	<p>History of Microbiology Morphology and physiology of Bacteria Sterilization and disinfectant Culture media Culture methods Laboratory identification of bacteria and taxonomy Bacterial genetics Genetics engineering Molecular biology of microorganism Molecular biology techniques Antimicrobial therapy and resistance Microbial pathogenesis Laboratory diagnosis of bacterial infection Vaccines Types of immunity Antigens Antibodies Antigen antibody reaction Complement system Structure and function of immune system Cell mediated Immune response Humoral Immune response Immunodeficiency Hypersensitivity Autoimmunity Transplantation immunology Cancer immunology Antimicrobial immunity Immunohematology Techniques in immunology ELISA Western blot Flow cytometry Biology and pathogenesis of Mycobacterium tuberculosis and treatment Biology and Pathogenesis of medically important bacteria and treatment General properties of virus Pathogenesis of viral infection Antiviral agents & mechanism of their action Viral drug resistance Laboratory diagnosis of viral infection Bacteriophages Medically important virus pathogenesis and treatment Medical mycology Biology and treatment of opportunistic infection Hospital acquired infections Microbiology of Air, water and soil Biomedical waste management Immune prophylaxes Carbohydrate metabolism Lipid metabolism Nucleic acid metabolism Trace elements in health and disease Biology and function of vitamins Genomics Proteomics DNA biology and replication RNA biology and transcription Protein biology and translation Sanger Sequencing and NGS Nutritional biochemistry</p>

<p>Technician – 1</p> <p>Group 'C' (Non-Ministerial)</p>	<p>Basic Chemistry Chemical reactions Acids, bases, and salts Chemical equations General Physics</p> <p>Mechanics Thermodynamics Electricity and magnetism Optics Biology</p> <p>Cell structure and function Genetics and heredity Microbiology</p> <p>Algebra Geometry Trigonometry Laboratory Techniques</p> <p>Laboratory safety Handling laboratory equipment Measuring and recording data Preparing solutions Conducting experiments Instrumentation</p> <p>Use and calibration of common laboratory instruments Spectrophotometry Microscopy</p> <p>Environmental Science</p> <p>Pollution and its control Quality Control and Assurance</p> <p>Quality standards and regulations Quality control in laboratory processes Safety and Ethics</p> <p>Laboratory safety protocols Ethical considerations in scientific research Waste disposal practices</p>
<p>Laboratory Attendant - 1</p> <p>Group 'C' (Non-Ministerial)</p>	<p>Basic Science and Laboratory related Science</p>