

MSc Sem.-1 Examination

401

MLT

Time : 2-30 Hours]

February-2025

[Max. Marks : 70

Q1A	Describe any seven views on history of Medical laboratory technology still Matters.	7 Marks
Q1B	Clarify the importance of medical laboratory diagnostic in Healthcare.	7 Marks
OR		
Q1A	Articulate the Molecular diagnosis and Immunochemistry of Expansion and Automation phase in historical evolution of Medical laboratory technology.	7 Marks
Q1B	Give detail note on Next Generation sequencing (NGS) evolution.	7 Marks
OR		
Q2A	What are the core ethical principles that guide the practice of a medical laboratory technician?	7 Marks
Q2B	What are the different types of hepatitis, their mode of transmission and which Laboratory diagnostic tools are useful in this condition.	7 Marks
OR		
Q2A	How do the ethical obligation of a Medical Laboratory technician impact the quality of patient care and the trust between healthcare providers and patients?	7 Marks
Q2B	What are the primary mechanism by Plasmodium spp. evade the host immune response and provide summary about disease.	7 Marks
OR		
Q3A	Define health. Explain in detail the factors that affect health, providing examples for each factor.	7 Marks
Q3B	Define disease and describe its characteristics. Explain the differences between acute and chronic diseases with examples.	7 Marks
OR		
Q3A	Give the definition of "Pathology" and explain the scope of pathology in modern medical practices.	7 Marks
Q3B	What is etiology in the context of pathology? Describe the different ways diseases can be classified	7 Marks
OR		
Q4A	Define infection and give its classification in detail.	7 Marks
Q4B	Write a comprehensive note on the different stages of tissue repair.	7 Marks
OR		
Q4A	Write a detailed note on Cellular Adaptations to Stress.	7 Marks
Q4B	Write a detailed note on different stages of tissue repair.	7 Marks
OR		
Q5	Answer the following questions (Any Seven)	14 Marks
I	Write down the Expanded service of analyzing what is being done till the date.	2 Marks
II	Expound the example of clinical Interpretation.	2 Marks
III	How did the pioneer's legacy shape the current state of MLT?	2 Marks
IV	Give the full form of IFBLS and brief overview about it.	2 Marks
V	Enlist the Laboratory diagnosis for pneumonia and Tuberculosis.	2 Marks

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VI	Describe any two ethical principles for accountability and responsibility.	2 Marks
VII	Mention two areas covered under the scope of pathology.	2 Marks
VII	Differentiate between acute and chronic diseases.	2 Marks
IX	Name the three main dimensions of health.	2 Marks
X	Define atrophy and hypertrophy.	2 Marks
XI	Name two examples of genetic diseases.	2 Marks
XII	What is a neoplastic disease? Provide one example.	2 Marks