

2025

M.Sc. 1st Semester Examination

**MEDICAL LABORATORY
TECHNOLOGY**

Paper : MLTC402X0

[Clinical Biochemistry]

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. What is DNA motif?
2. Write down any two differences between reducing and non-reducing sugar.
3. What is Km? Write the unit of Km. $1+1$
4. Mention any two biological importance of nucleotides.

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Describe the structure of β -pleated sheet.

P.T.O.

(2)

6. State a brief note on Ramachandran plot.
7. Classify amino acids according to polarity.
8. Write the differences between saturated and unsaturated fatty acid.

Group - C

Answer any *one* question : 8×1=8

9. What is codon bias? Describe the Watson-Crick model of DNA-double helix. 2+6
10. What do you mean by protein denaturation and renaturation? What are competitive and non-competitive inhibition of enzyme? Give example.

($1\frac{1}{2}+1\frac{1}{2}$)+(2+2)

Internal Assessment : 5 marks
