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Roll No. ....

M.Sc.-II Sem.

**PG-400**

**M.Sc. Examination, May-2025**

**MEDICAL MICROBIOLOGY**

**Biochemistry and Haematology**

**(MM-204)**

*Time : Three Hours]*

*[Maximum Marks : 50*

**Note : Attempt all the sections as per instructions.**

**Section-A**

**(Very Short Answer Questions)**

**Note : Attempt all five questions. Each question carries 2 marks. Very short answer is required.  $5 \times 2 = 10$**

1. What is the role of the citrate synthase in TCA cycle?
2. Give an account of end product formed in glycolysis cycle.
3. What is N-Terminal sequencing in proteins?
4. Define allosteric enzymes?
5. Describe the capillary puncture.

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**Section-B**

**(Short Answer Questions)**

**Note : Attempt any two questions out of the following three questions. Each question carries 5 marks. Short answer is required not exceeding 200 words.**

$2 \times 5 = 10$

6. Explain the major steps with key enzyme responsible for the lipid metabolism.
7. Describe how the  $V_{max}$  regulates the enzyme kinetics?
8. Explain the process of deamination steps in protein degradation.

**Section-C**

**(Long Answer Questions)**

**Note : Attempt any three questions out of the following five questions. Each question carries 10 marks.**

$3 \times 10 = 30$

9. What are the commonly known methods for blood sample collections?
10. Explain the different factors responsible for the enzyme inhibition.

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11. Describe the clinical application of the Streptokinase.
12. Give account on various enzymes involved in the Urea cycle.
13. Write a note on the major steps of the electron transport chain.
14. Describe the blood bank management.