

2010 Scheme

Q.P. Code: 105001

Reg. No.:

First Professional MBBS Degree Supplementary Examinations June 2026

Biochemistry – Paper I

Time: 3 Hours

Total Marks: 50

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay**(10)**

1. Describe the steps of catabolism of phenylalanine and tyrosine. Indicate the inborn errors of metabolism associated with this pathway. Name the important compounds derived from tyrosine. (5+3+2)

Short essays**(2x5=10)**

2. Discuss the steps and significance of Hexose Monophosphate Shunt pathway.
3. Name the enzymes that are used in the diagnosis of myocardial infarction. Explain the pattern of rise following an Acute Infarction.

Short notes**(5x3=15)**

4. Explain the digestion and absorption of fats.
5. Define oxidative phosphorylation. Explain the chemiosmotic theory.
6. Describe the structure and function of phospholipids.
7. What are Mucopolysaccharides. Describe the composition and functions of mucopolysaccharides.
8. Illustrate the fluid mosaic model of cell membrane.

Answer briefly**(5x2=10)**

9. Enzymes of therapeutic importance.
10. Refsum's disease.
11. Denaturation of proteins.
12. Name the lipoproteins and their associated apolipoproteins.
13. Von Gierke's disease.

Give precise answers:**(5x1=5)**

14. Name any four biologically important peptides .
15. Give suitable example for suicide enzyme inhibition.
16. Name marker enzymes of
 - a) Mitochondria
 - b) Golgi complex
17. Name any two glycosides of biochemical importance.
18. Name the test for identification of ketone bodies in urine.
