(5+3+2)

(5x1=5)



2010 Scheme

Q.P. Code: 105001 Reg. No.:

First Professional MBBS Degree Supplementary Examinations January 2025 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 mitochondrial electron transport chain. What is substrate level phosphorylation. Give two examples.

Short essays (2x5=10)

- 2. Explain the effect of Temperature and Substrate concentration on enzyme activity.
- 3. Describe how ketone bodies are formed and degraded in the human body.

Short notes (5x3=15)

- 4. Cardiac biomarkers.
- 5. Describe the secondary structure of proteins. Give examples.
- 6. Explain the role of Carnitine in fatty acid oxidation.
- 7. Describe the Malate Aspartate shuttle.
- 8. What is Von Gierkes disease. Name the enzyme involved.

Answer briefly (5x2=10)

- 9. Essential pentosuria.
- 10. Liposomes.
- 11. Lipotropic factors.
- 12. Give the differences between hexokinase and glucokinase.
- 13. Alkaptonuria.

Give precise answers:

- 14. Name two biologically important peptides.
- 15. Name the essential fatty acids.
- 16. Name the key enzymes of neoglucogenesis.
- 17. Name two mucopolysaccharides.
- 18. Give the normal levels of serum Albumin and Total Protein.
