QP Code: 213020	Reg. No
4	

Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary Examinations December 2024

Paper VIII - Enzymology

(2016 Scheme)

Time: 3 hours Max. Marks: 100

- 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

Long Essays: (2x15=30)

- 1. Name the cardiac markers. Describe with a suitable graph their enzyme pattern after myocardial infarction (MI). Add a note on the estimation of CK and LDH.
- 2. Define Enzymes. Explain the factors affecting enzyme activity.

Short Essays: (2x10=20)

- 3. What are Isoenzymes. Discuss the diagnostic importance of isoenzymes of creatine kinase and Lactate dehydrogenase.
- 4. Define enzyme inhibition. Differentiate competitive and non-competitive inhibition. Mention with suitable examples the role of competitive inhibition in clinical medicine.

Short Answer: (6x5=30)

- 5. Mechanism of action of Enzymes.
- 6. Michaelis Menton graph and its importance.
- 7. Enzyme specificity.
- 8. Co-factors and their importance.
- 9. Therapeutic enzymes and Enzymes used as reagents.
- 10. Ceruloplasmin.

Comment on: (10x2=20)

- 11. Zymogen and its importance.
- 12. Catalytic site.
- 13. Multienzyme complex.
- 14. Km value and its importance.
- 15. Koshland's theory of enzyme activity.
- 16. Ribozyme.
- 17. Enzyme unit.
- 18. Enzyme increased in obstructive Liver disease.
- 19. Prosthetic group.
- 20. Lysozyme.
