QP Code: 213020	Reg. No
4	

Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary Examinations October 2019

Paper VIII - Enzymology

(2016 Scheme)

Time: 3 hours Max. Marks: 100

- Answer all the questions
- Draw diagrams 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. Classify enzymes according to the IUB system with one example each. Describe the various factors which affect enzyme activity.

Short Essays: (2x10=20)

- Define enzyme inhibition. Differentiate competitive and non-competitive inhibition.
 Mention with suitable examples the role of competitive inhibition in clinical medicine.
- 4. Isolation and purification of enzymes.

Short Answer: (6x5=30)

- 5. Enzyme specificity
- 6. Therapeutic enzymes with example.
- 7. Functional and non-functional enzymes
- 8. Mechanism of enzyme action.
- 9. Line weaver's Burke plot
- 10. Significance of Km

Comment on: (10x2=20)

- 11. Suicide inhibition
- 12. Active site.
- 13. Co-enzymes with 2 examples.
- 14. Multi-enzyme complex.
- 15. Metal activated enzyme
- Enzyme defect in active pancreatitis
- 17. Immobilized enzymes.
- 18. Enzyme defect in alcoholic cirrhosis
- 19. Ribozymes
- 20. Covalent modification of enzymes
