

Second Year B.Sc. Medical Biochemistry – October 2016

ENZYMOLGY

Time: 3 Hours

Total Marks: 80

- Answer all the questions
- Draw diagrams wherever necessary

Essay

(2x15=30)

1. Explain different types of enzyme inhibition with suitable examples and graphs. Add a note on its application in clinical medicine.
2. Mechanism of enzyme action. Add a note on action of chymotrypsin and lysozyme.

Short Essay

(2x10=20)

3. Explain with suitable example: Active site, prosthetic group, co-enzyme, co-factor, metallo-enzyme.
4. Plasma enzyme pattern in MI, liver diseases, bone disorders, pancreatic disease and malignancies.

Short Notes

(4x5=20)

5. Enzyme units and turn over number.
6. Functional and non functional serum enzymes.
7. Immobilised enzymes.
8. Covalent modification and feedback inhibition with suitable examples.

Answer Briefly

(5x2=10)

9. Pro-enzyme.
10. Enzymes as marker of myocardial infarction.
11. Name two therapeutic enzymes.
12. Ribozyme.
13. Michaelis Menten constant.
