

QP Code: 213020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Supplementary
Examinations November 2022**

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. Describe the various methods of regulation of enzyme activity with suitable examples.
2. Define enzymes. Describe in detail the various types of enzyme inhibition with suitable examples. Discuss the role of enzyme inhibitors in clinical medicine.

Short Essays:

(2x10=20)

3. What are isoenzymes. Discuss the diagnostic importance of the isoenzymes of lactate dehydrogenase and creatine kinase.
4. What is Km. Discuss its significance. Describe in detail various factors which affect enzyme activity.

Short Answer:

(6x5=30)

5. Classification of enzymes.
6. Therapeutic enzymes with examples.
7. Enzyme specificity.
8. Mechanism of enzyme action.
9. Functional and non-functional enzymes.
10. Liver enzymes.

Comment on:

(10x2=20)

11. Metallo enzymes.
12. Co-enzymes.
13. Immobilized enzymes.
14. Enzymes elevated in pancreatic disease.
15. Proteolytic enzymes.
16. Clinical importance of the enzyme Glucose 6 Phosphate Dehydrogenase (G6PD).
17. Line weaver Burke plot.
18. Ribozymes.
19. Multi-enzyme complexes.
20. Turn over number.
