

QP Code: 213020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Supplementary
Examinations August 2025**

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 with diagrams explaining different mechanisms of Enzyme action.
2. Define Enzymes. Explain the different IUBMB classes of enzymes with two examples for each. Explain any three factors affecting enzyme activity.

Short Essays:

(2x10=20)

3. What are Isoenzymes. Discuss the diagnostic importance of isoenzymes of Alkaline phosphatase and creatine kinase.
4. Isolation and Purification of Enzymes.

Short Answer:

(6x5=30)

5. Therapeutic enzymes with examples.
6. Specificity of enzymes.
7. Liver enzymes.
8. Co-enzymes and its importance.
9. Immobilized Enzymes. Its applications.
10. Active site.

Comment on:

(10x2=20)

11. Metalloenzymes.
12. Importance of Pancreatic lipase.
13. Induction.
14. Induced fit theory.
15. Non protein Enzyme.
16. Turn over number.
17. GGT.
18. Covalent modification of enzyme.
19. Zymogen.
20. LDH-2.
