

QP Code: 213020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Supplementary
Examinations September 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. Explain the factors affecting the enzyme action. Add a note on therapeutic enzymes
2. What are isoenzymes. Describe its importance in clinical medicine

Short Essays: (2x10=20)

3. Different types of enzyme inhibition
4. Enzyme purification

Short Answer: (6x5=30)

5. Enzyme assays in liver disease
6. Classification of enzymes
7. Functional and non-functional enzymes
8. Coenzymes
9. Enzyme kinetics
10. Ribozymes

Comment on: (10x2=20)

11. Immobilized enzymes
12. Lock and key model
13. Regulation of enzymes by reversible covalent modification
14. Plasma enzyme pattern in Myocardial Infarction
15. Zymogens
16. Ceruloplasmin
17. Metalloenzymes
18. Enzyme units and turn over number
19. Multi-enzyme complex
20. Activation energy (E_a)
