

QP Code: 213020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary  
Examinations January 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. What are enzymes. Explain the properties and classification of enzymes with examples
2. Explain in detail about the clinical significance of any five enzymes. Add a note on their estimation

**Short Essays:**

**(2x10=20)**

3. Factors affecting enzyme activity
4. What are isoenzymes. Explain the diagnostic importance of isoenzymes of Lactate dehydrogenase and Creatine Kinase

**Short Answer:**

**(6x5=30)**

5. Describe the biomedical importance of competitive inhibition with examples
6. Enzyme specificity
7. Functional and non-functional enzymes
8. Therapeutic enzymes
9. Ribozymes
10. Enzyme kinetics

**Comment on:**

**(10x2=20)**

11. Immobilized enzymes
12. Induction and repression of enzyme synthesis
13. Cofactors
14. Leucine Amino peptidase
15. Zymogens
16. Prosthetic group
17. Metalloenzymes
18. Induced fit model
19. Multi-enzyme complex
20. Cholinesterase

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