Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary Examinations February 2023

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. Classify Enzymes with examples. Add a note on Isoenzymes
2. Derive Michaelis Menton Equation. Write a note on significance of Km

Short Essays: **(2x10=20)**

3. Different mechanisms of Enzyme action
4. Plasma Enzymes used in Myocardial Infarction

Short Answer: **(6x5=30)**

5. Enzyme Inhibition
6. Functional and Non-functional enzymes
7. Enzyme Units and turn over number
8. What are Zymogens. Two examples and its importance
9. Line weaver burk plot and its importance
10. Alkaline phosphatase

Comment on: **(10x2=20)**

11. Repression
12. Allosteric site
13. Importance of Pancreatic amylase
14. Enzyme increased in Viral liver disease
15. Lock and key model of Enzyme
16. Non protein Enzyme
17. Transaminases
18. Cholinesterase
19. Cofactors
20. Optimal temperature

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