

QP Code: 213020

Reg. No.....

Second Year B.Sc Medical Biochemistry Degree
Regular/Supplementary Examinations July 2021

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. Derive Michaelis Menton Equation. Write a note on significance of Km.
2. Describe mechanism of enzyme action. Add a note on action of Chymotrypsin

Short Essays:

(2x10=20)

3. Enzyme classification its basis and importance
4. Enzymes as cardiac markers and their kinetics

Short Answer:

(6x5=30)

5. Enzyme inhibition
6. Factors regulating enzyme activity
7. Enzyme units and turnover number
8. Allosteric enzymes
9. Co-enzymes and iso-enzymes
10. Ribozymes and immobilised enzymes

Comment on:

(10x2=20)

11. Metallo-enzymes
12. Therapeutic enzymes
13. Amylase vs lipase estimation
14. Ceruloplasmin
15. Lineweaver Burke plot
16. Significance of Km value
17. Active site
18. Induced fit theory
19. Examples of suicide inhibition
20. Multi-enzyme complex
