2/16

3009N612

Candidate's Seat No :_____

B.Sc Sem.-6 (Rep) Examination
CC 310
Biochemistry
September-2024

Time : 2-30 Hours] **[Max. Marks : 70**

1. a Derieve the Michaelis Menton equation 7
   b. Write a note on MWC and KNF models for allosteric enzymes 7

   OR

   a. Explain Competitve and noncompeptitive inhibition with its kinetics 10
   b. Discuss the Line Weaver burk plot 4

2. a. Write a note on Spectrophotometric and polarimetric method 9
   b Explain Handling of enzymes 5

   OR

   2 a. Explain specificity of enzymes 5

   b Write a note on Manometeric and Thumberg method 9

3 Why enzymes needs to be purified and explain Purification table 14

OR

3 a Explain methods to check the purity of enzyme 8
b Discuss the methods for isolation and extraction of enzyme 8 6

4 a. Explain briefly Biosensors 6

b, Discuss Immobilized enzyme [Methods, properties , kinetics and industrial application] 9 8

P.T.O.

OR

4 a Describe role of enzymes as analytical reagent 6

b Write a note on medical and therapeutic application of enzyme 8

5. Write answers of ANY SEVEN 14

1. Give two kinetics aspects of ATcase as allosteric enzymes

2. Draw Hanes plots

3 Define Suicide inhibitors and give one example

4 Give two importances to study enzyme kinetics

5. Define Enzyme assay

6. What are units of enzyme?

.7. How electrophoresis help to check the purity of enzyme

8. Give two role of enzyme in clinical

9. Give two role of enzyme in food industry

10. Name the four methods for immobilization of enzyme

11. Define Irreversible enzyme with example

12 Define uncompetitive inhibition with example

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