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## QP CODE: 25019370

Reg No	:	
Name	:	

# B.Sc DEGREE (CBCS) ) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

## **Fourth Semester**

**B.Sc Bioinformatics Model III** 

## Complementary Course - BI4CMT07 - ENZYMOLOGY

2017 Admission Onwards

6F4FDDB0

Time: 3 Hours

Max. Marks: 80

#### Part A

Answer any **ten** questions. Each question carries **2** marks.

- 1. Define prosthetic group.
- 2. How ribozymes are differ from enzymes?
- 3. Discuss the types of Abzymes.
- 4. Write the functions of coenzymes.
- 5. Write about unit of enzyme activity.
- 6. Write the significance of LB plot.
- 7. Write a substrate and competitive inhibitor.
- 8. Comment about regulatory site and catalytic site.
- 9. Define zymogen.
- 10. Comment on glucose fructose syrup.
- 11. What is the benefit of enzymes in washing powder?
- 12. Write any two protease enzyme used in food industry.

 $(10 \times 2 = 20)$ 

#### Part B

Answer any **six** questions. Each question carries **5** marks.

- 13. What are the contributions of Louis Pasteur and J B Sumner in enzymology?
- 14. Write about classes Oxidireductase.
- 15. Write about koshland induced fit hypothesis.
- 16. Write about features of active site.
- 17. Write about
  - (i) effect of pH vs Reaction rate.
  - (ii)effect of temperatures vs Reaction rate.
  - (iii) effect of enzyme concentration
  - (iv) effect of substrate concentration
- 18. Explain michaelis menten equation principle.
- 19. Significance of PDH in body metabolism.
- 20. Write a short note on industrial production of glucose.
- 21. Write about the significance of lactose in dairy industries.

(6×5=30)

#### Part C

## Answer any **two** questions. Each question carries **15** marks.

- 22. Give an account on how enzyme arises and how it become beneficial to us.
- 23. Give an account on models of bisubstrate reaction.
- 24. Write short note on mechanism of enzyme action.
- 25. Write short note on enzymes in human welfare.

(2×15=30)