

**35104 OR**

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2019.

THIRD SEMESTER

ZOOLOGY

Paper IV — ENZYMOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Enzyme Specificity
2. Quantitative measurement of Enzyme activity.
3. Kinetic theory.
4. Zero Order Reactions.
5. Competitive inhibition
6. Allosteric enzymes
7. Enzymes in clinical diagnosis.
8. Isozymes.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write brief about nomenclature and classification of Enzymes.

Or

10. Describe the Principles involved in Isolation of Enzymes.
11. Write about the Mechanism of Enzymes action. Add note on role of metal ions.

Or

12. Discuss the effect of temperature, pH and enzyme concentration on reaction rate.

13. Write about the different types of Inhibition of Enzyme activity with suitable example

Or

14. Narrate the Regulation of Enzyme activity with suitable examples.

15. Write about Immobilized enzymes and their applications.

Or

16. Write about the concepts of Enzyme Engineering.

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