

M.Sc. DEGREE EXAMINATION, OCTOBER 2015.

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. Write brief note on Nomenclature of Enzymes.
2. Write a short note on Isoenzymes.
3. Michelis-Menten Equation.
4. Explain about K_m and V_{max} .
5. Covalent modifications.
6. Explain about Feedback inhibition of Enzymes.
7. Rate constant.
8. Explain Lock and Key model of Enzyme action.

PART B — (4 × 15 = 60 marks)

Answer ALL questions

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Write an essay on enzyme specificity.

Or

10. Write notes on (a) Isolation of Enzymes (b) intracellular distribution of enzymes.
11. Write a detailed essay on Bioenergetics.

Or

12. Describe the factors effecting enzyme activity.

13. Given an account on the Kinetics of Allosteric enzymes.

Or

14. Write an essay on Inhibition of Enzyme activity.

15. Write an essay on Enzymes Engineering.

Or

16. Describe the applications of Immobilized Enzymes.

