

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. Measurement of enzyme activity.
2. Enzyme Specificity.
3. Order Reactions.
4. Enzyme activity - Temperature.
5. Determination of Kinetic Constants.
6. Kinetics of Allosteric enzymes.
7. Isozymes
8. Enzymes in clinical diagnosis.

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. Add a note on the commercial aspects.

11. Write about the Mechanism of Enzymes action with suitable illustrations.

Or

12. Write briefly about the principles of Bioenergetics.

13. Write briefly about the Regulation of Enzyme activity with suitable examples.

Or

14. Narrate the different types of Inhibition of Enzyme activity with suitable example.

15. Write about the concepts of Enzyme Engineering.

Or

16. Write about Immobilized enzymes and their applications.

