25084

M.Sc. DEGREE EXAMINATION, APRIL 2018.

Biotechnology

SECOND SEMESTER

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. Induced fit theory.
2. LDH.
3. Lineweaver Burk Plot.
4. Entropy.
5. Hills coefficient.
6. Allostreism.
7. Phenylketonuria.
8. HRP conjugate.

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PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. How are extraction and purification of enzymes carried out?

Or

10. Explain enzyme nomenclature and classify enzymes.

11. Give an account on first and second Law of thermodynamics. Add a note on the role of free energy in biological systems.

Or

12. Derive Henri and Michaelis — Menton equation explaining significance of Kcat and Km.

13. Elaborate on different types of enzyme inhibitions.

Or

14. What is an active site? Describe the mechanism of action of chymotrypsin and lysozyme.

15. Enumerate various biotechnological applications of enzymes.

Or

16. Briefly describe the application of enzymes in instrumental techniques in Medicine and Industry.

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