

NS-3472(N)

B.Sc. (Biotechnology)

Examination, June-2022

ENZYMES AND ENZYME TECHNOLOGY

(B-209)

(New)

(B.Sc. Biotech.)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt **any five** questions. **All** questions carry equal marks.

1. Write a note on the history of Enzymology. 10
2. Define an Enzyme and explain in detail about the properties of enzymes. 10

P.T.O.

3. Write a note on any **two** of the following: 5×2=10

(a) Classification and nomenclature of enzymes

(b) Enzyme Commission's recommendations

(c) EC numbers mechanism

4. Write in detail about the mechanism of Enzyme action. 10

5. Write notes on the following: 5×2=10

(a) Regulation of Enzyme activity

(b) Coenzymes and Isozymes

6. Discuss in detail the role of ion-exchange chromatography in Enzyme Technology. 10

7. Discuss in detail the role of genetic engineering for the Production of various enzymes. 10

NS-3472(N)/2

8. Write a note on the modification of catalytic properties of enzymes through enzyme engineering. 10
9. Write detailed notes on the application of enzymes in diagnostics and medicine. 10
10. What do you understand by Enzyme immobilization? Discuss about the techniques involved in it. 10