

**NS-3472 (CV-II)**

**B.Sc. (Biotechnology) IInd Year**

**Examination, June-2021**

**ENZYMES AND ENZYME TECHNOLOGY**

**(B-209)**

**(B.Sc. Biotech.)**

*Time : 1½ Hours ] [Maximum Marks : 50*

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

1. Briefly outline the steps in cheese production; and discuss the role of enzymes.
2. Write short notes on the following :
  - (a) Competitive inhibition

(b) Isozymes

(c) Ion-exchange chromatography

(d) Prosthetic group

3. Define enzyme engineering. Discuss briefly the principles, objectives, steps and the potential contribution of enzyme engineering.
4. (a) Illustrate the induced fit hypothesis of enzyme action.  
(b) Explain the structure of an enzyme.
5. What are Enzymes? Discuss their properties and applications.
6. Indicate the main recommendations of International Union of Biochemists for enzyme classification by describing.

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**P.T.O.**

- (a) The classes of enzymes with their number.
- (b) Systematic nomenclature of any two enzymes.
- (c) E.C. code number system for enzymes. <https://www.ccsustudy.com>
7. (a) Distinguish between Holoenzyme and Apoenzyme.
- (b) Describe the factors affecting enzyme activity.
8. Explain Michaelis-Menten equation. With the help of Michaelis-Menten Curve explain the relationship between  $k_m$  and  $V_{max}$ .
9. What do you mean by immobilized enzyme and immobilization of enzyme?

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**P.T.O.**

Describe various methods of enzyme immobilization and also its advantages and disadvantages.

10. Write an essay on Coenzymes.

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