**Questions**

**Topic: Enzyme**

**Fourth Sem (G)**

**DSC/GE**

1. Define enzyme. How are they classified?
2. Classify enzyme according to IUB system.
3. Give an account on general properties of enzyme.
4. ‘Boiled yeast cannot ferment sugar’- comment.
5. Explain the mechanism of enzyme action.
6. Describe the chemical properties of enzyme.
7. Differentiate between a) Competitive and Noncompetitive inhibition.

b) Coenzymes and cofactors.

c) Endoenzyme and Exoenzyme

d) Apoenzyme and Holoenzyme

8. Write short notes on Allosteric or feedback inhibition

9. Explain induced fit mechanism of enzyme action.

10. What is Michaelis- Menten Constant? What is its significance?

11. Describe various factors affecting the enzyme activity.

12. Explain: Frozen and boiled leaf extract hardly exhibit any enzyme activity. But when brought to room temperature, former shows activity but later fails to do so.

13. What are isozymes? Give example. Differentiate between homo and heteropolymers. Mention function and characteristics of isozyme.

14. Differentiate between Lock and Key theory and induced fit theory with suitable diagram.