

2018

Time : 2 hours

Full Marks : 40

Answer any four questions

All questions carry equal marks

Candidates are required to answer in their own words  
as far as practicable

( ENZYME TECHNOLOGY )

1. Classify enzymes with their basic functions and examples.
2. Describe various mechanism/models of enzyme action
3. What are the advantages of using immobilized enzyme over free enzymes? Discuss various techniques used for enzyme immobilization.

4. What are serine proteases and their families? Explain the mechanism of action of Chymotrypsin.
5. Give an account of allosteric enzymes. Describe the symmetric and sequential modes of action of allosteric enzymes.
6. Derive Michaelis-Menten and Lineweaver-Burk equation. Discuss drawbacks of Michaelis-Menten plot.
7. What are competitive, noncompetitive and uncompetitive inhibitors? Write importance of inhibitors.
8. What is purification chart? How purification chart is prepared?