

Code No: D109110309

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Regular Examinations March/April 2010

BIOCATALYSIS & ENZYME MECHANISM

(Biotechnology)

Time: 3hours

Max.Marks:60

**Answer any five questions
All questions carry equal marks**

1. What are biocatalysts? Discuss the advantages & disadvantages of biocatalysts?
2. Discuss the kinetics of single substrate enzyme catalyzed reactions?
3. What is stereo selectivity? Explain with two examples how enzymes can be used in Synthesis of optically pure drugs?
4. Explain how biocatalysts act in organic solvents & discuss the advantages?
5. Write a note on applications of enzymes in food industry?
6. Write a note on immobilized enzyme biosensors?
7. What is Enzyme Specificity? Write a note on theories that explain Enzyme Specificity?
8. What is characterization? Explain different methods used for characterizing Enzymes?