

## Code No: C0309 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations March/April-2011 BIOCATALYSIS AND ENZYME MECHANISM (BIOTECHNOLOGY)

## **Time: 3hours**

Max.Marks:60

## Answer any five questions All questions carry equal marks

- 1. What are biocatalysts? Discuss the properties of biocatalysts & advantages of Biocatalysts over conventional catalysts. [12]
- 2. Discuss Michaelis Menten kinetics? Write a note on significance of M.M Parameters. [12]
- 3. Discuss the basics of stereochemistry? Write a note on applications of lipases& Esterases in pharma industry. [12]
- 4. What is enzyme catalysis? Write a note on mechanism of enzyme catalysis? [12]

			[12]
5.	Explain the mechanism of	biosynthesis of biocatalysts.	[12]

- 6. a) What are Enantiomers?b) Role of water in enzyme reactions in organic solvents.
  - c) Trans esterification & inter esterification. [12]
- 7. Explain the role of Enzymes as Analytical agents. [12]
- 8. Discuss the methods used for investgating the kinetics of enzyme catalysed reactions. [12]

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