

# CBCS SCHEME

15BT63

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## Sixth Semester B.E. Degree Examination, June/July 2019 Enzyme Technology and Biotransformation

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Give an account on advantages of enzyme over chemical catalyst. (10 Marks)  
b. Discuss the different strategies used in enzyme purification. (06 Marks)

OR

- 2 a. Write briefly on molecular weight determination and characterization of enzyme. (06 Marks)  
b. Explain the techniques of enzyme immobilization. (10 Marks)

### Module-2

- 3 a. Write about HMG COA reductase. (10 Marks)  
b. Write about mechanism of coenzyme function. (06 Marks)

OR

- 4 a. Give an account on amylase isozyme. (10 Marks)  
b. Write briefly on angiotension converting enzyme. (06 Marks)

### Module-3

- 5 a. Give an account on kinetics of immobilized enzyme. (10 Marks)  
b. Write about economic aspect of enzyme immobilization. (06 Marks)

OR

- 6 a. Explain about bioreactors used in immobilization techniques. (10 Marks)  
b. Write about techniques of immobilized enzyme. (06 Marks)

### Module-4

- 7 a. Write on multiple host-guest complexation chemistry. (10 Marks)  
b. Write briefly on extreme thermophilli's. (06 Marks)

OR

- 8 a. Discuss the design and construction of novel enzymes. (06 Marks)  
b. Write briefly on biotransformation steroid. (10 Marks)

### Module-5

- 9 a. Discuss the applications of protease in leather industry. (06 Marks)  
b. Describe the method of production of syrup from starch. (10 Marks)

OR

- 10 a. Give an account in SGPT. (10 Marks)  
b. Write briefly about galactosemia. (06 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

