

M.Sc.-Biotech-IIS-(2.4)

2019

Full Marks : **40**

Time : **2** hours

All questions carry equal marks.

*Answer **all** questions.*

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

Give labeled diagram wherever necessary.

(ENZYME TECHNOLOGY)

1. What is enzyme ? Discuss multi enzyme complexes with examples.

OR

Write short notes on the following :

- (a) Activation energy
- (b) Allosteric site

2. Describe various mechanism/models of enzyme action.

OR

Write short notes on the following :

- (a) Significance of K_m value
- (b) Competitive enzyme inhibition

3. Discuss various factors influencing the catalytic efficiency of enzyme.

OR

(Turn over)

(2)

Write short notes on the following :

- (a) Allosteric enzymes
- (b) Entropy effect

4. Explain Enzyme regulation and control of their activity.

OR

Write short notes on the following :

- (a) Lysozyme
- (b) Serine proteases

5. Describe the structure and mechanism of action of some important co-enzymes studied by you.

OR

Write short notes on the following :

- (a) Whole cell immobilization
 - (b) Pyridoxal phosphate
-