

Code No. : B02/308

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Second Semester Online Examination, May-June, 2022

M. Sc. BIOTECHNOLOGY

Paper III

ENZYMOLGY

Time : Three Hours] [Maximum Marks : 80

Note : Part A and B of each question in each unit consist of 'very short answer type question' which are to be answered in one or two sentences. Part C 'Short answer type' and D 'Long answer type' of each question should be answered within the word limit mentioned.

UNIT-I

1. (A) Explain the function of Hydrolysis. 2
- (B) Describe the effect of pH on enzymes. 2
- (C) Discuss about the role of cofactors.

(word limit 200-250) 4

OR

Explain the significance of Active sites at enzymes.

P.T.O.

- (D) Give detailed account on Iso-enzymes.

(word limit 400-450) 12

OR

Explain the mode at action of Isomerases.

UNIT-II

2. (A) Describe electrostatic catalysis. 2
- (B) What is transition state reference to the enzymes. 2
- (C) Discuss about the double reciprocal plot.

(word limit 200-250) 4

OR

Explain acid base catalysis.

- (D) Describe methods for the determining at enzyme inhibition mechanism.

(word limit 400-450) 12

OR

Explain metal-ion catalysis.

UNIT-III

3. (A) List some sources of enzymes. 2

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- (B) List some applications of Immobilized enzymes. **2**
- (C) Explain any one method of enzyme purification. *(word limit 200-250)* **4**

OR

Describe catalysis of enzymes in aqueous medium.

- (D) Explain any one method of enzyme immobilization. *(word limit 400-450)* **12**

OR

Explain any one technique for the synthesis.

UNIT-IV

4. (A) Give structural feature of protease. **2**
- (B) Give structural feature of Aldolase. **2**
- (C) Explain the mode of action of oxidoreductase. *(word limit 200-250)* **4**

OR

Explain the concept of peptide biosynthesis.

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P.T.O.

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- (D) Describe the mode of action of protein acylases. *(word limit 400-450)* **12**

OR

Describe the mode of Action of Aldolases.

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