

B.Sc. Sem-6 Examination

310 Biochemistry

Advance Enzymology

October 2021

Time : 2-00 Hours]

[Max. Marks : 50

SECTION-1

Answer the following (any three) :

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|---|-------|--------------------------------------------------------------------|---|
| 1 | (a) | Explain types of enzyme inhibitions | 7 |
| | (b) | Draw and explain - Line Weaver Burk Plot | 7 |
| 2 | (a) | Explain-Spectrophotometric method for enzyme reaction measurement. | 7 |
| | (b) | Explain Manometric method for enzyme reaction measurement. | 7 |
| 3 | (a) | Write precautions for enzyme purification | 7 |
| | (b) | Write steps for enzyme purification. | 7 |
| 4 | (a) | Short note - Medical uses of enzymes | 7 |
| | (b) | Short note - Industrial uses of enzymes. | 7 |
| 5 | (a) | Explain uses of enzymes in Biotechnology | 7 |
| | (b) | Derive Michreilis-Menton Equation | 7 |
| 6 | (a) | Explain Hofstee plot. | 7 |
| | (b) | Explain Woolf or Hane's Plot. | 7 |
| 7 | (a) | Explain Thumberg Method | 7 |
| | (b) | Explain Electrochemical method. | 7 |
| 8 | (a) | Explain Purity of enzyme & it method to check it. | 7 |
| | (b) | Discuss 1 method of Immobilized of enzyme. | 7 |

SECTION-II

- 9 Answer in short (any eight) : 08
- (1) Write Michaelis-Mentan Equation
 - (2) Define Km
 - (3) Define Vmax
 - (4) Define - Unit of enzyme
 - (5) Give types of enzyme inhbitors
 - (6) What is specific activity
 - (7) Define Immobilization enzymes
 - (8) Name-2 methods of immobilization of enzymes
 - (9) Give name of buffers used in enzyme purification (any)
 - (10) Name enzyme reaction termination reagent
 - (11) Define Allosteric enzyme.
 - (12) Name enzyme units
 - (13) Give one name of enzyme used in Industries
 - (14) Name enzyme used in dairy industries
 - (15) Name enzyme used in fermentation
 - (16) Name enzyme used in practical of Sem-5.