Roll No. ....

Y – 3196

M.Sc. (Biotechnology) (Second Semester)

EXAMINATION, May/June-2021

Paper – 203

ENZYME TECHNOLOGY

Time : Three Hours

Maximum Marks : 85   *Minimum Pass Marks : 29*

Note—Attempt *all* questions.

Unit-I

1. What are the functional classifications of enzymes ? Explain with suitable examples.   17

Unit-II

2. Answer any *two* of the following—   17
   (a) Effect of Temperature, pH and substrate concentration on enzymes.
   (b) Biosensors for clinical diagnosis.
   (c) Applications of inhibitors.
   (d) Non-aqueous biocatalysis.

Unit-III

3. Explain the different methods of immobilization of enzymes, discussing the advantages and disadvantages.   17

Unit-IV

4. Explain (any *two*)—   17
   (a) Characterization of purified enzymes.
   (b) Enzyme kinetics.
   (c) Determination of Km and Vmax.

Unit-V

5. Explain "Enzyme Biosensors" on : its types, components and applications. 17