



# THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2<sup>nd</sup> Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

## Backlog Arrear Examination, March 2021

**BCH 2633**

**Enzymology**

**Max Marks: 75**

**Time: 3 Hrs.**

### PART A

**I. Answer any Five questions each not exceeding 4 pages:**

**(5 x 15 = 75)**

1. Define enzyme. Explain the nomenclature and classification of enzymes.
2. Describe the any three methods of isolation and purification of enzymes.
3. Explain the type of enzyme specificity with examples.
4. Define turn over number. Explain the factors affecting enzyme activity.
5. Derive the Michaeli's - Menten equation and significance of  $K_m$ .
6. Write detailed account on competitive, uncompetitive inhibition of enzymes.
7. Discuss the methods of immobilized enzymes and its applications.

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