



# 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 1533**

**Biomolecules**

**Max Marks: 75**

**Time: 3 Hrs.**

### PART A

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

**(5 x 15 = 75)**

1. Define mutarotation. Explain the classification of carbohydrates.
2. Explain the types of polysaccharides with examples.
3. Describe the saturated and unsaturated fatty acids with examples.
4. Discuss the primary and secondary structure of proteins.
5. Explain the types and functions of RNA.
6. Write detailed account on Watson and Crick model of DNA with neat diagram.
7. Describe the structure, source, functions, daily requirements and deficiency of vitamin A.