



# 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

**BOT 107/2529/2439**

**GENERAL BOTANY**

**Time: 3 Hrs**

**Marks: 75**

**I. Answer any FIVE of the following each not exceeding 4 pages. (5X15=75)**

1. With neat labelled diagrams explain the structure of *Chlamydomonas*.
2. Explain the morphological features of gametophyte and sporophyte of *Riccia* with neat labelled sketches.
3. Write an account of male and female reproductive structure observed in *Cycas*. Draw suitable diagrams.
4. Explain the structure and functions of simple and complex tissues present in plants. Draw neat diagrams wherever necessary.
5. Give a brief account on photosynthesis. Explain how the external factors affect the rate of photosynthesis.
6. Bring out the common characteristic features of bacteria.
7. Explain the process of plant growth and its limiting factors.