



# 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 3427/342/2427/3642**

**Plant Physiology**

**Marks: 75**

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

1. Enumerate the macro & micro nutrients and point out the deficiency syndromes.
2. Give an account on role of guard cell and regulating transpiration.
3. Present a flow chart on glycolytic pathway.
4. How C4 plants differ from CAM plants in carbon fixation.
5. Present commercial uses of auxins, gibberellins, cytokinins & abscisic acid.
6. How do plants deal with UV stress?
7. What is Photoperiodism and comment on role Phytochrome.