



THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

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

Backlog Arrear Examination, March 2021

BOT 1530

Plants at work

Marks: 75

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

1. Explain the long distance transport of food and water in a land plants.
2. Show transpiration as a necessary evil and furnish the mechanism of guard cell function.
3. Trace the path of carbon in C₃ cycle.
4. Discuss the mechanism & significance of symbiotic and asymbiotic N₂ fixation.
5. What is a bioassay? Give concise account on auxin and their functions.
6. Classify the different types of plant movement you have studied.
7. Describe seismonastic movements.