



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 2426

PLANT ANATOMY AND EMBRYOLOGY

Time: 3 Hrs

Marks: 75

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

1. Elaborately write the various theories proposed and types of Meristem.
2. Explain the anatomical features of dicot stem with suitable diagrams.
3. Write a brief account on anomalous secondary growth observed in plants.
4. Write an essay on the morphological variations of vegetative parts observed in plants.
5. Bring out the anatomical features of male gametophyte in flowering plants with suitable diagrams.
6. What is pollination? Explain the various pollination methods observed in plants.
7. Write short notes on the following.
 - a. Parthenocarpy
 - b. Male sterility
 - c. Rf gene
 - d. Mitochondrial genome
 - e. Apomixis