



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

PGB 4401

Plant Diversity

Time: 3hrs

Marks: 75

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

1. Present the five kingdom classification of life and account for the origin of different plant groups in the geological time scale.
2. Present the thallus organization of Chlorophyceae and schematically outline the lifecycle pattern in Algae.
3. Place the constituent groups of Bryophytes in a scheme of classification and trace progressive evolution of the gametophyte generation.
4. Explain the stellar evolution with suitable illustrations.
5. Describing heterospory in *Selaginella* track the origin of seed habit.
6. Illustrate the types of wood you come across in Gymnosperms.
7. Enumerate the IUCN categories and comprehensively present the conservation strategies.