



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 4502

Plant Systematics

Time: 3hrs

Marks: 75

I. Answer any FIVE of the following each not exceeding four pages.

(5X15=75)

1. Differentiate artificial classification from natural classification
2. n and outline Bentham & Hookers arrangement of angiosperm plant families.
3. Outline APG – I and how APG – II and III are different from it. Study the importance of phylogenetic approaches.
4. What is ICBN? Give an account on its rules, principles and functions.
5. List the Hotspots and Biomes found in India and explain one in each as case study.
6. Enumerate the steps involved in herbarium preparation. Preparation and show how herbarium taxonomy is useful in resolving taxonomic problems and puzzles.
6. Enlist the various zones, organizations & institutions functioning under Botanical Survey of India and comment on its contributions.
7. Explain how chemotaxonomy and numerical taxonomy can augment the conventional approach in plant classification.