



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 2316/2423/3631

PLANT SYSTEMATICS

Time: 3 Hrs

Marks: 75

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

1. Outline the classification proposed by Bentham and Hooker with its merits and demerits
2. Narrate the various steps involved in the preparation of herbarium. Add a note on the functions in the field of plant taxonomy.
3. List and explain the various root modification observed in plants
4. Compare the characteristic features of the sub family Faboideae with Caesalpinioideae
5. Write notes on the following
 - a. Disc floret
 - b. Inferior ovary
 - c. Pollinium
 - d. Coronary corona
 - e. Thalamus
6. List any five economically important plants and its useful parts from Euphorbiaceae and Araceae
7. Draw neat labelled diagrams of flowers of Orchidaceae and Poaceae.