

This question paper contains 2 printed pages]

Y—76—2019

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Third Year) (Fifth Semester) (Backlog) EXAMINATION

NOVEMBER/DECEMBER, 2019

(CGPA Pattern)

BOTANY

Paper XIII

(Systematic Botany—I)

(Monday, 23-12-2019)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Give an outline of Bentham and Hooker's system of plant classification. Add a note on its merits and demerits. 8

Or

Write short note on :

(a) Scope and applications of taxonomy

(b) Natural system of plant classification.

2. Give an account of role of phytochemistry in relation to taxonomy. 8

Or

Write short notes on :

(a) ICBN

(b) Biological species concept.

P.T.O.

3. Give an account of role of Botanical gardens in plant taxonomy. 8

Or

Write short notes on :

- (a) Use of key in plant identification
- (b) Herbarium.

4. Describe the general characters of the family myrtaceae. Give its floral formula and floral diagrams. 8

Or

- (a) Pollination in the family capparidaceae
- (b) Economic importance of family rutaceae.

5. Write short notes on any *four* of the following : 8

- (a) Merits and demerits of Hutchinson's classification of plants
- (b) Phylogenetic system of plant classification
- (c) Role of polynology in relation to taxonomy
- (d) Techniques of plant preservation
- (e) Economic importance of family papaveraceae
- (f) Inflorescence of family combretaceae.