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Y—73—2019

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2019

(CBCS 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. Attempt any *four* of the following : 8

- (a) Natural system of classification
- (b) Scope and application of taxonomy
- (c) Role of phytochemistry in relation to taxonomy
- (d) Systematic position of Musaceae
- (e) Economic importance of Orchidaceae
- (f) Pollination in Cyperaceae

2. Attempt any *two* of the following : 8

- (a) Artificial system of classification
- (b) Palynology in relation to taxonomy
- (c) Pollen grains of Hibiscus

P.T.O.

3. Attempt any *one* of the following : 8
- Give an outline of Engler and Prantle's system of classification. Add a note on its merits and demerits.
 - Describe in detail biological species concept.
4. Attempt any *two* of the following : 8
- Economic importance of Cannaceae
 - Describe the general characters of the family Commelinaceae.
 - Pollination and systematic position in Orchidaceae
5. Attempt any *one* of the following : 8
- Describe the general characters of family Zingiberaceae. Give its floral formula and floral diagram.
 - Describe the general characters of family Cyperaceae. Give its floral formula and floral diagram.