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W—62—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS Pattern)

BOTANY

Paper XIII

(Systematic Botany—I) (B–II)

(Tuesday, 16-10-2018)

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) Scope of Taxonomy
 - (b) Role of ICN
 - (c) Principle of valid publication
 - (d) Define Morphospecies concept
 - (e) Floral formula of Cyperaceae (Bisexual flower)
 - (f) Floral diagram of Zingiberaceae
2. Attempt any *two* of the following : 8
 - (a) Describe phytochemistry in relation to Taxonomy.
 - (b) Describe artificial classifications.
 - (c) Comment on merits and demerits of Bentham and Hooker's system.
3. Attempt any *one* of the following : 8
 - (a) Give outline of Hutchinson's system of classification. Add a note on its merits and demerits.
 - (b) Describe in detail pollen morphology of pollen grain of *Hibiscus*.

P.T.O.

4. Attempt any *two* of the following : 8
- (a) Describe the floral characters of Musaceae.
 - (b) Describe floral characters of Orchidaceae.
 - (c) Give the economic importance of Zingiberaceae.
5. Attempt any *one* of the following : 8
- (a) Describe the family Cannaceae with its floral formula and floral diagram.
 - (b) Describe the family Commelinaceae with its floral formula and floral diagram.