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ST—498—2022

FACULTY OF SCIENCE

M.Sc. (Second Year) (Fourth Semester) EXAMINATION

JUNE/JULY, 2022

(CBCS/New Pattern)

BOTANY

Paper XVIII-B

(Angiosperms—III : Systematics of Angiosperms—II)

(Wednesday, 6-7-2022)

Time : 2.00 p.m. to 5.45 p.m.

Time—3.45 Hours

Maximum Marks—75

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Draw well labelled diagrams wherever necessary.

1. Describe in detail Allopatric and Parapatric plant speciation. 15

Or

Describe in detail Typological and Biological concept of species. 15

2. Describe in detail Numerical taxonomy and chemotaxonomy in relation to taxonomy. 15

Or

Describe Qualitative Vs. Quantitative characters in plants. 15

3. Describe the range of floral variation in centrospermae and discuss the interrelationship of the taxa included therein. 15

Or

Describe the range of floral variation in sapindales and discuss the interrelationship of the taxa included therein. 15

P.T.O.

- 4. Describe the range of floral variation in Spathiflorae and discuss the inter-relationship of taxa included therein. 15

Or

Describe the range of floral variation in scitaminae and discuss the inter-relationship of taxa included therein.

- 5. Write short notes on (any *three*) : 15
 - (a) Punch Card Keys
 - (b) Polymerage Chain Reaction Analysis
 - (c) Economic importance of *Sapotaceae*
 - (d) Diagnostic features and systematic position of Commelianaceae.