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NY—344—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

BOTANY

Paper-XVIII

[Angiosperms-III (Systematic of Angiosperms-II)]

(Wednesday, 13-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :- (i) Attempt all questions.

(ii) All questions carry equal marks.

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

1. Describe in detail typological and biological concept of species. 15

Or

Describe in detail Taxonomic literature in relation to floras, monographs and icons.

2. Describe in detail synthetic Vs analytic characters. 15

Or

Describe in detail Random Amplified Polymorphic DNA (RAPD) and add a note on applications of RAPD in molecular systematics.

P.T.O.

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

Or

Describe in detail range of floral variation in Centrospermae and Tubiflorae.

4. Describe the range of floral variation in Farinosae and Scitaminae and discuss the interrelationship of the taxa included therein. 15

Or

Describe diagnostic features and interrelationship and economic importance of plants belonging to order Helobae with suitable examples.

5. Write short notes on (any *three*) : 15

- (a) Geographical isolating mechanism in plant taxonomy
- (b) Embryology in relation to taxonomy
- (c) Systematic position and economic importance of Anacardiaceae
- (d) Diagnostic features of Araceae.