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NY—188—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

BOTANY

Paper—XIII

(Angiosperms (Systematics of Angiosperms–I))

(Saturday, 9-12-2023)

Time : 2.00 p.m. to 1.00 p.m.

Time—3 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 monophyletic and polyphyletic origin of angiosperms. 15

Or

Describe general Evolutionary trends in angiosperm. Add a note on evolution of inflorescence and fruit.

2. Describe in detail Takhtajan's system of plant classification. Add a note on its merits and demerits. 15

Or

Describe Andrea cesalpino system of plant classification.

P.T.O.

3. Describe in detail range of floral variation in Geraniales and discuss interrelationship between taxa included therein. 15

Or

Give systematic position, diagnostic features, economic importance of Papavaraceae and Capparidaceae.

4. Describe in detail floral morphology in Pandanales and discuss interrelationship between taxa included therein. 15

Or

Describe systematic position, diagnostic characters, economic importance and interrelationship between taxa belonging to families Liliaceae and Orchidaceae.

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

- (a) Place of origin of Angiosperms
- (b) Principles of ICBN
- (c) Economic importance of Malvaceae
- (d) Interrelationship of Gramineae and Cyperaceae.