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**NY—186—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**M.Sc. (First Year) (First Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**(New/CBCS Pattern)**

**BOTANY**

**Paper—III**

**(Taxonomy of Angiosperms and Gymnosperms)**

**(Saturday, 9-12-2023)**

**Time : 10.00 a.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. Give comparative account of sporophyte and gametophyte of Gnetales. 15

*Or*

Describe in detail the general characters of Gymnosperms.

2. Describe in detail salient features, principles, important rules and recommendations, provisions and appendices of ICBN. 15

*Or*

Describe in detail types of plant speciation.

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3. Describe in detail the family Magnoliaceae. 15

Or

Describe in detail Cronquist's system of classification of Angiosperms.

4. Describe in detail various classes of compounds and their taxonomical significance. 15

Or

Describe in detail steps of numerical taxonomy.

5. Write short notes on any *three* of the following : 15

(a) RAPD

(b) Continental drift theory

(c) APG-IV system of classification

(d) Economic importance of gymnosperms.

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