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**NA—28—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Second Year) (Third Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**(New Pattern)**

**BOTANY**

**Paper VI**

**(Plant Anatomy)**

**(Friday, 8-12-2023)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) Figures to the right indicate full marks.*

*(iii) Illustrate your answers with suitable diagram, scheme etc.*

1. Describe various theories of root and shoot organization. 15

*Or*

Write notes on :

(a) Stomata 8

(b) Digestive glands and nectary glands. 7

2. Describe the root anatomy of dicotyledonous plant. 15

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Or

Write notes on :

- (a) Anomalous secondary growth in *Dracaena* stem. 8
- (b) Economic importance of wood and wood elements. 7
3. Write short notes on (any *two*) : 10
- (i) Scope of plant anatomy
- (ii) Sclerenchyma
- (iii) Primary growth in stems of plants
- (iv) Heartwood and sapwood.

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