

B.Sc.F.Y. (CBCS Pattern) Sem II
Botany Paper-I (Morphology and Anatomy of Angiosperm)

P. Pages : 2

Time : Three Hours



GUG/S/18/20065

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagrams whenever necessary.

1. Write notes on :

- a) Types of phyllotaxy. 5
b) Modification of stem. 5

OR

Write short notes on :

- c) Branching pattern. 2½
d) Mode of living. 2½
e) Modification of tap root. 2½
f) Venation in Leaves. 2½

2. Write notes on :

- a) Types of Aestivation. 5
b) Modifications of Calyx. 5

OR

Write short notes on :

- c) Fleshy Fruits. 2½
d) Gynoecium. 2½
e) Floral formula and floral diagram. 2½
f) Racemose inflorescence. 2½

3. Write notes on :

- a) Tunica Carpus theory. 5
b) Structure and Function of Xylem. 5

OR

Write short notes on :

- c) Secretary tissues. 2½
- d) Types of vascular bundle. 2½
- e) Ground tissue system. 2½
- f) Periderm. 2½

4. Write notes on :

- a) Anamalous secondary growth in Boerhaavia stem. 5
- b) Anamalous secondary growth in Beta Vulgaris root. 5

OR

- c) T. S. Dracaena stem. (diagram only) 2½
- d) T. S. Maize leaf. (diagram only) 2½
- e) T. S. Sunflower root (diagram only) 2½
- f) T. S. Moringa stem. (diagram only) 2½

5. Write answers in two or three lines only **any ten.** (diagrams are not necessary). 10

- a) Stipule
- b) Tendrils.
- c) Compound leaf.
- d) Neuter
- e) Perianth
- f) Zygomorphic flower
- g) Vascular Cambium
- h) Parenchyma
- i) Sieve tube
- j) Medullary ray
- k) Hypodermis
- l) Pith
