

Bachelor of Science (B.Sc.) (CBCS Pattern) Second Semester CBCS
Botany Paper-I : Morphology and Anatomy of Angiosperms

P. Pages : 2

Time : Three Hours



GUG/W/18/11572

Max. Marks : 50

- Notes : 1. All questions are compulsory carry equal marks.
2. Draw well labelled diagram wherever necessary.

1. Write notes on:

- | | |
|--|---|
| a) Modification of Tap root. | 5 |
| b) Heterotrophic mode of living in Angiosperm. | 5 |

OR

Write short notes on:

- | | |
|----------------------------|----|
| c) Weak forms of habit. | 2½ |
| d) Types of branching. | 2½ |
| e) Shape of lamina. | 2½ |
| f) Types of compound leaf. | 2½ |

2. Write notes on:

- | | |
|--------------------------|---|
| a) Simple fleshy fruits. | 5 |
| b) Modification of calyx | 5 |

OR

Write short notes on:

- | | |
|--|----|
| c) Types of aestivation. | 2½ |
| d) Floral formula and floral diagram. | 2½ |
| e) Hypanthodium inflorescence. | 2½ |
| f) Evidences for flower is modified shoot. | 2½ |

3. Write notes on:

- | | |
|---------------------------------------|---|
| a) Root apical meristem. | 5 |
| b) Structure and function of cambium. | 5 |

OR

Write short notes on:

- | | |
|----------------------------|----|
| c) Vascular tissue System. | 2½ |
| d) Functions of periderm. | 2½ |
| e) Sclerenchyma. | 2½ |
| f) Secretory tissues. | 2½ |

4. Write notes on:
- a) Anomalous secondary growth in Bignonia, stem 5
 - b) Secondary growth in Dracaena-stem 5

OR

Write short notes on:

- c) T.S. of Moringa stem (Diagram only). 2½
 - d) T.S. of Boerhaavia stem (Diagram only). 2½
 - e) T.S. of Maize Leaf. 2½
 - f) Anatomy of Sunflower root. 2½
5. Write **Any Ten** of the following within one or two lines (Diagram not necessary) 1x10
- a) Stipule
 - b) Phyllotaxy
 - c) Pneumatophores
 - d) Staminodes
 - e) Cruciform corolla
 - f) Polygamous flower
 - g) Hypodermis
 - h) Lenticels
 - i) Trichomes
 - j) Crushed Phloem
 - k) Bundle sheath
 - l) Epiblema.
