

Bachelor of Science (B.Sc. Part-I) Second Semester Old
2SBot-T2 - Botany Paper-II (Angiosperm: Morphology & Anatomy)

P. Pages : 2

Time : Three Hours



GUG/W/18/1231

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Solve your answers with suitable examples and draw well labelled diagram wherever necessary.

1. Define root. Describe the structural modifications of tap root with reference to food storage. 10

OR

Write on;

- a) Types of Racemose inflorescence. 5
 - b) Flower is a modified shoot. 5
2. Write on:
- a) Structure and function of xylem. 5
 - b) Structure and function of periderm. 5

OR

What is secondary growth? Describe secondary structure of Moringa stem. 10

3. Write short notes on:
- a) Modification of leaves. 2½
 - b) Verticillaster inflorescence. 2½
 - c) Tunica-carpus Theory. 2½
 - d) T.S. of sunflower stem (Diagram only) 2½

OR

- e) Branching pattern in plants. 2½
- f) Types of aestivation. 2½
- g) Secretory tissue. 2½
- h) T.S. of Maize root (Diagram only) 2½

4. Write short notes on:
- | | |
|--|----|
| a) Parts of foliage leaf. | 2½ |
| b) Floral formula. | 2½ |
| c) Simple tissue. | 2½ |
| d) T.S. of <u>Dracaena</u> stem (Diagram only) | 2½ |

OR

- | | |
|--------------------------------------|----|
| e) Underground stems | 2½ |
| f) Fleshy fruits. | 2½ |
| g) Newman theory | 2½ |
| h) T.S. of Maize leaf (Diagram only) | 2½ |

5. Write on the following in two/three lines only (Diagrams are not necessary) **any ten.**

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|----------------------------------|---|
| a) Autotrophic | 1 |
| b) Leaf venation. | 1 |
| c) Stipules | 1 |
| d) Biparous cyme | 1 |
| e) Sessile Flower | 1 |
| f) Caryopsis | 1 |
| g) Bicollateral vascular bundle. | 1 |
| h) Sieve elements | 1 |
| i) Cambium ring. | 1 |
| j) Mesophyll Cells. | 1 |
| k) Bundle sheath | 1 |
| l) Parenchyma. | 1 |
