

B.Sc. I (CBCS Pattern) Sem-II
012A - Botany- I : Morphology and Anatomy of Angiosperms

P. Pages : 2

Time : Three Hours



GUG/W/22/11572

Max. Marks : 50

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

1. Write notes on:

- a) What is phyllotaxy? Describe its types in detail. 5
- b) Describe modification of Tap Root in detail. 5

OR

- c) Write short note on winged forms & erect forms. 2½
- d) Describe parts of leaf in detail. 2½
- e) Leaf venation 2½
- f) Modification of aerial stem. 2½

2. a) What is Fruit? Describe types of simple fruits. 5
- b) Racemose & Cymose inflorescence. 5

OR

- c) Types of flowers. 2½
- d) vexillary aestivation. 2½
- e) Modification of calyx. 2½
- f) Cohesion of S. 2½

3. a) What is SAM? Describe its theories in detail. 5
- b) What is Cambium? Describe its structure and function. 5

OR

- c) Describe parenchyma in detail. 2½
- d) Newman Theory. 2½
- e) Laticiferous tissue. 2½
- f) Periderm 2½

4. a) Describe the secondary structure of Moringa in detail. 5
b) T. S. Sunflower stem. 5

OR

- c) T. S. Maize Root (Diagram only) 2½
d) Anamoli in Dracaena. 2½
e) T. S. of sunflower leaf (diagram only) 2½
f) Anamoli in Beet Root. 2½
5. Write two or three line maximum on the **any ten** of the following (diagrams are not necessary). **1x10 =10**
- a) Shrub
b) Prop root
c) Paripinnate leaf
d) Epipetalous
e) Marginal placentation
f) Zygomorphic flower
g) Collenchyma
h) Nectar gland
i) Radial vascular bundle
j) Dorsiventral leaf
k) Casparian band
l) Bulliform cells
