

B.Sc. CBCS Pattern Semester-II
012A - Botany Paper-I : Morphology and Anatomy of Angiosperms

P. Pages : 2

Time : Three Hours



GUG/W/23/11572

Max. Marks : 50

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

1. a) Define root and mention different modifications in Angiosperm root w.r.t. food storage. 5
b) Define phyllotaxy. Describe different types of phyllotaxy. 5

OR

Write note on:

- c) Forms of plant habit. 2½
d) Sub-aerial modifications of stem. 2½
e) Parts of foliage leaves. 2½
f) Insect catching leaf. 2½
2. a) Define inflorescence. Describe different types of Cymose inflorescence citing suitable examples. 5
b) Define Aestivation. Explain different types of aestivation citing suitable examples. 5

OR

Write note on:

- c) Parts of Typical flower. 2½
d) Cohesions of stamens. 2½
e) Types of fleshy fruits. 2½
f) Types of Placentation. 2½
3. a) Describe different types of Meristem based on its origin and position. 5
b) Define Tissue. Describe different types of secretory tissues. 5

OR

Write note on:

- c) Structure and function of Cambium. 2½
d) Structure and function of periderm. 2½
e) Conjoint vascular Bundle. 2½
f) Fundamental Tissue system. 2½

4. a) Compare primary structures of Dicot and Monocot Roots. 5
b) Describe Anomalous secondary structure in Boerhaavia stem. 5

OR

Write note on:

- c) Secondary structure in Moringa stem. 2½
d) Primary structure of Dicot Leaf. 2½
e) Primary structure of Monocot Leaf. 2½
f) Anomalous Secondary structure in Beet Root. 2½
5. Write **any ten** questions in one or two lines only.
(Diagrams are NOT necessary).
- a) Root Nodules. 1
b) Stem tendrils. 1
c) Decompound leaf. 1
d) Cyathium. 1
e) Perigynous flower. 1
f) Syncarpous Gynoecium. 1
g) Gland. 1
h) Radial vascular bundle. 1
i) Plerome. 1
j) Medullary rays. 1
k) Transfusion tissue. 1
l) Lenticels. 1
