

GSM/D-21
PLANT ANATOMY
Paper–II

937

Time Allowed : 3 Hours]

[Maximum Marks : 40

Note : Attempt **five** questions in all, selecting **two** questions from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Define the followings: 1×8=8
- | | |
|----------------------------|----------------------------|
| (i) Biennials | (ii) Syncyte |
| (iii) Open vascular bundle | (iv) Haplocheilic stomata |
| (v) Tyloses | (vi) Decompound Leaf |
| (vii) Heterophylly | (viii) Conjunctive Tissue. |

UNIT-I

2. Describe the various theories of shoot apical meristem in detail. 8
3. Write notes on: 5,3
- | | |
|------------|------------------|
| (i) Phloem | (ii) Parenchyma. |
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4. Write notes on: 5,3
- | | |
|--------------------------------|----------------|
| (i) Cambium - Types & Function | (ii) Periderm. |
|--------------------------------|----------------|
5. Define Anomalous secondary growth. Describe the aromalous secondary growth in Dracaena. 8

UNIT-II

6. Write notes on: 5,3
- | | |
|----------------------------|-------------------------|
| (i) Phyllotaxy & its types | (ii) Functions of leaf. |
|----------------------------|-------------------------|
7. Write notes on: 4,4
- | | |
|---------------------|-------------------------------|
| (i) Leaf Abscission | (ii) Anatomy of a dicot leaf. |
|---------------------|-------------------------------|
8. Write notes on: 5,3
- | | |
|--------------------------|--------------------------|
| (i) Epidermal Apperdages | (ii) Stomatal Structure. |
|--------------------------|--------------------------|
9. Describe in detail the secondary growth occurring in a dicot root. 8