Roll No.

(12/24)

B.Sc. EXAMINATION

(Third Semester)

BOTANY

Paper II

Plant Anatomy

Time: Three Hours

Maximum Marks: 40

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

Write on the following: $1 \times 8 = 8$

- What is Meristem?
- (ii) What is vascular cambium?
- (iii) Who gave the histogen theory?

- (iv) What is Bark?
- (v) Define dendrochronology.
- (vi) Write two examples of anomalous secondary growth in monocotyledons stem.
- (vii) What are Scales? Give examples.
- (viii) What is quiescent Centre?

Unit I

- Describe structure and functions of various types of simple permanent tissues.
- 3. Describe secondary growth in dicot stem. 8
- 4. How anomalous secondary growth takes place in Achyranthes ?
- 5. Describe the various types of histological zonation in shoot apex.

Unit II

- 6. Describe stomatal apparatus and types of stomata.
- stem. (2) Draw V. S. Monocot leaves. 4
 - (b) Discuss the various types of phyllotaxy.
 - 8. Write internal structure of root of Rhizophora.

 Draw T. S. pneumatophore of Sonneratia. 8
 - What are epidermal appendages? Discuss their morphological types.

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