

SET- A

B. Sc. (H) BOTANY / III SEMESTER

PAPER TITLE: ANATOMY OF ANGIOSPERMS

UNIQUE PAER CODE: 32161301

TIME: 3 +1 Hours

Maximum Marks: 75

(Write your University Roll Number, Paper Title and Code on the top of the Answer Sheet)

Attempt any four questions in all. All questions carry equal marks.

1. What are complex permanent tissues? Describe the structure of the complex tissue involved in conduction of water. Explain briefly the cyto-differentiation of tracheary elements. **18.75**
2. Explain distribution, structure and types of stomata in monocot and dicot leaves. **18.75**
3. What is wood? Discuss different types of wood: Reaction wood, Tension wood, Early and late wood, Heartwood and Sapwood, Porous and Non- porous wood. **18.75**
4. Roots of monocot and dicot plants were mixed in a collection. On the basis of which anatomical characters you would separate them? **18.75**
5. Some plants are evolved to live and survive in abundance of free water. Give a detailed account of anatomical adaptations shown by these plants. Support your answer with any two examples and diagrams. **18.75**
6. Name the process of loss of water in the form of water droplets from margins of some leaves through special pores. Elaborate on the structure and function of these pores. Also, briefly explain structure and function of any other secretory system studied by you. **18.75**