

SET-‘A’

B. Sc. (H) BOTANY III SEM

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. Justify the statement with the help of suitable diagrams, “A process which leads to increase in girth also brings about a significant amount of anatomical changes in stelar and extra-stelar regions of stems”. **18.75**
2. Give account of at least two common and two specific theories, describing structure of root and shoot apical meristem in plants. Draw diagrams to support the same. **18.75**
3. Pores existing in the epidermal regions of aerial green parts may differ structurally across dicotyledonous and monocotyledonous plants. Discuss various types with the help of examples and appropriate diagrams. **18.75**
4. Discuss various types of cells/tissues which are associated with significant process of secretion in plants with the help of suitable diagrams. **18.75**
5. What is the name of meristematic tissue whose activity is different in different seasons? Elucidate the reason behind this seasonal activity and highlight the anatomical changes occurring thereafter in wood with the help of suitable diagrams. **18.75**
6. These plants are not only able to float but also sustain well in water. What according to you are the anatomical changes being adapted by them to do so. Explain briefly with the help of examples (two) and suitable diagrams. **18.75**