

SET III

LS Semester III (Botany)

Unique Paper Code: 42164301

Paper Title: Plant Anatomy and Embryology

Time: 3 + 1 Hours

Maximum Marks: 75

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

Attempt any four questions in all. All questions carry equal marks (i.e., 18.75)

Q1. Some plants have built in devices to disseminate their seeds to far off places while others are dependent on external agencies for the same. Explain these mechanisms in detail with examples.

Q2. Discuss the events that lead to the development of a mature female gametophyte in the angiosperms. Explain different types of embryo sac development through diagrams only.

Q3. Which sporophytic layer in the anther contributes to development of pollen wall and its proteins? Explain the different types of this layer and enumerate all its functions.

Q4. Discuss the various adaptations in hydrophytes and xerophytes with help of suitable diagrams and examples.

Q5. Write a note on seasonal activity of cambium. Discuss the secondary growth in dicot stem with illustrations.

Q6. How many types of simple tissues have you studied? List out the differences between each one of them. Support your answer with suitable diagrams