Class – M.Sc. II (BOT)
Subject – BOT - 62I
Paper – PLANT ANATOMY

Time Allowed : 3 Hours Maximum Marks : 50

Attempt all. Each part carries 1 mark.

1. (i) What are tyloses? Give their importance.
   (ii) What is early wood & late wood?
   (iii) What are Cortical & Medullary V.B?
   (iv) What do you mean by terminal wood parenchyma?
   (v) What are anamolous features of Nyctanthes?
   (vi) Define Laticifers
   (vii) What are lenticels?
   (viii) Describe Xerophytic leaf. $1 \times 8 = 8$

Attempt any 7. Each carries 3 marks.

2. Describe in detail Nodal anatomy.
3. Describe 2° growth in Dicot root.
4. Explain root-stem transition.
5. Write a note on Lignification /Anomalous 2° growth in Boerhaavia.
6. Describe xylem & phloem elements in detail.
7. Discuss the anatomy & leaf in relation to photosynthesis and Transpiration.
8. Discuss anatomy of Laticifers.
9. Discuss anatomy of Nitrogen fixers.

10. Discuss anatomy of aquatic root. $3 \times 7 = 21$

Attempt any 3. Each carries 7 marks.

11. Describe in detail floral anatomy.

12. Explain 2° growth in

    (a) Chenopodium stem

    (b) Bignonia stem

13. Discuss internal anatomy of dicot & monocot seed.

14. Discuss role of ultrasurface features of seeds in taxonomy $7 \times 3 = 21$

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