

TM142050C

Reg. No.....

Name.....

M. Sc. DEGREE (C.S.S.) EXAMINATION, APRIL 2017
Supplementary (2014 Admission)
SEMESTER II – BOTANY
BOT2PAPAS – PLANT ANATOMY AND PRINCIPLES OF ANGIOSPERM
SYSTEMATICS

Time: Three Hours

Maximum Weight: 30

I Answer any six questions. Each question carries a weight of 1

1. Comment on phylogenetic classification.
2. Explain tendrils and hooks.
3. Briefly write on the structure and function of bark.
4. What are the theories of apical organization.
5. What is the significance of rejection of names?
6. Differentiate form and variety.
7. What are the physical properties of wood?
8. Describe briefly the factors affecting cambial activity.

(6x1=6)

II Answer any seven questions. Each question carries a weight of 2.

9. Describe the process of leaf abscission.
10. Write a short account on concept of characters?
11. Explain the term phenetics with examples.
12. What is chemotaxonomy?
13. Briefly describe the significance of a phylogenetic tree.
14. Differentiate appendicular and receptacular theory.
15. With suitable examples explain typification.
16. Write an account on cladogram and its significance.
17. Explain the significance of ICBN.
18. Write an account on the research prospects in anatomy.

(7x2=14)

III Answer any two questions. Each question carries a weight of 5

19. Explain the concept and principles of numerical taxonomy.
20. Describe leaf morphology and its modifications with respect to margin, tip and base.
21. Describe the morphological and anatomical peculiarities of epiphytes.

(2x5=10)

