

Reg. No. : Name : **P232**

M.Sc. DEGREE END SEMESTER EXAMINATION APRIL 2016

SEMESTER-2: BOTANY

**COURSE: P2BOTT07- PLANT ANATOMY AND PRINCIPLES OF ANGIOSPERM
SYSTEMATICS**

(Common for Regular- 2015 Admission /Supplementary-2014 Admission)

Time: Three Hours

Maximum Marks: 75

I. Answer **any eight** questions briefly; each question carries 2 marks.

1. Briefly explain a cladogram.
2. What are salt glands?
3. Mention the aims of ICBN.
4. What is Krantz anatomy?
5. What do you mean by phylogenetic classification?
6. Explain pharmacognosy.
7. What are analogous characters? Give a suitable example.
8. Differentiate resin ducts and laticifers.
9. Explain the difference between variety and form.
10. What is Tunica corpus theory?
11. Why flower is considered a modified shoot?
12. Comment on plant fibres.

(2 x 8 = 16)

II. Answer **any seven** questions; each question carries 5 marks.

13. Describe the development of epigynous ovary.
14. What are the different types of racemose inflorescence?
15. Explain with diagrams the pattern of lignification in xylem.
16. Differentiate plesiomorphic and apomorphic characters.
17. What is the importance of floral anatomy?
18. Describe the various types of fruits.
19. Give an account on the adaptations of halophytes.
20. Briefly explain the importance of photochemistry.
21. Describe the significance of seed anatomy.
22. Explain the concepts of genome analysis.

(5 x 7 = 35)

III. Answer **any two** questions; each question carries 12 marks.

23. Give an account on the different types of secretory tissue systems in plants.

OR

24. Explain with diagrams and examples nodal anatomy. Describe the pattern of nodal evolution.

25. Write an essay on molecular taxonomy.

OR

26. What are the principles and methods of numerical taxonomy?

(12 x 2 = 24)
