

16P131

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Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(Regular/Supplementary/Improvement)

(CUCSS-PG)

**CC15P BO1 C03 – ANGIOSPERM ANATOMY, EMBRYOLOGY, PALYNOLOGY AND LAB
TECHNIQUES**

(Botany)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 36 Weightage

I Answer all questions briefly:

1. What is wound periderm?
2. Transfer cells.
3. What is reaction wood?
4. Elucidate conversion of fusiform initials to ray initials.
5. Differentiate Paracytic stomata from Diacytic stomata.
6. Ruminant endosperm.
7. What is filiform apparatus?
8. Briefly explain polyembryony.
9. Distinguish Apomixis from Amphimixis.
10. Mellitopalynology.
11. Stenopalynous taxa.
12. Give the composition and use of FAA.
13. Micrometry.
14. What is a clearing agent? Give an example.

(14 x 1 = 14 weightage)

II Answer any 7 questions each in not more than 100 words:

15. Explain the control of differentiation of phloem.
16. Elucidate the anomalous secondary growth in storage roots.
17. Explain the phylogenetic considerations of nodal anatomy.
18. Describe Allium type of embryosac development.
19. Evaluate the role of embryology in taxonomy.
20. Write an account of haploid plant production through experimental embryology.
21. Enumerate the contributions of P.K.K. Nair in the field of palynology.
22. Elucidate the development and structure of pollen wall.

23. Give a brief account on vital staining.

24. What is microtome? Add a note on different types of microtome.

(7 x 2 = 14 weightage)

III Answer any 2 questions in 300 words:

25. Write an account on wood anatomy.

26. Write an account on structure and development of typical dicotyledonous embryo.

27. Enumerate the recent advances in palynological studies.

28. Give a detailed account on classification, composition and uses of stains.

(2 x 4 = 8 weightage)
