

M.Sc DEGREE EXAMINATION, APRIL 2019
I Year II Semester
Plant Anatomy, Embryology and Palynology

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Quiescent centre
2. Collenchyma
3. Tylosis
4. Growth rings
5. Leaf trace
6. Organogenesis
7. Tapetum
8. Porogamy
9. Pollen kit
10. Pollen calendar
11. Polyembryony
12. Haustoria

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Explain briefly about Tunica corpus theory.
14. Explain briefly about the classification of meristematic tissues.
15. Write about the origin, structure and function of phloem.
16. Write notes on nodal anatomy.
17. Explain the structure of mature anther.
18. Give an account on the types, ultra structure and functions of embryo sac.
19. Comment on pollen pistil interaction.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe the different theories relating to the root apex.
21. Explain the structure and function of xylem.
22. Draw and describe the different types of stele.
23. Write an essay on endosperm types.
24. Explain aeropalynology.

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