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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2024**

(CBCSS)

Botany

**BOT 1C 03—ANGIOSPERM ANATOMY, ANGIOSPERM EMBRYOLOGY, PALYNOLOGY  
AND LAB TECHNIQUE**

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

**Section A***Answer any four questions.**Each question carries 2 weightage.*

1. Distinguish between unilacunar and trilacunar node.
2. What are Idioblast ? What is its function ?
3. What is endosperm haustoria ?
4. List out any *two* cellular proteins and their functions.
5. What is Heterospory ?
6. Describe the principle of microscopy.
7. What are tracheary elements ?

(4 × 2 = 8 weightage)

**Section B***Answer any four questions.**Each question carries 3 weightage.*

8. Give an account on nodal anatomy in dicotyledons.
9. Discuss the role of cambium in wound healing.
10. Give an account on apomixis.

**Turn over**

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11. Rotary microtomes are better than sledge microtome for anatomical sectioning. Wh. opinion ? Describe.
12. Who is the father of Indian palynology ? Describe his contributions.
13. How will you prepare Carnoy's fluid ? List out its uses.
14. Describe the significance of fertilization in angiosperms.

(4 × 3 = 12)

### Section C

*Answer any two questions.*

*Each question carries 5 weightage.*

15. Explain briefly the processes involved in vascular tissue differentiation in Angiosperm
16. Discuss the significance of Palynology in angiosperm taxonomy.
17. Discuss the classification and types of endosperm in angiosperms.
18. Write an account on floral anatomy and nodal anatomy in relation to taxonomy.

(2 × 5 = 10)