



DCBN301

Reg. No.

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III Semester B.Sc. Degree Examination, April - 2023

BOTANY

Plant Anatomy and Developmental Biology

(NEP Scheme 2021 Onwards)

Paper : 3



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer all parts Draw diagrams wherever necessary.

PART - A

I. Define/Explain any four of the following in two or three sentences.

(4×2=8)

1. What is schizogenous cavity?
2. Define intercalary meristem.
3. What is intrafascicular cambium?
4. Mention any two examples of bilateral symmetry in plants.
5. What is embryogeny?
6. What is double fertilization?

PART - B

II. Write critical notes on any four of the following.

(4×5=20)

7. Laticiferous tissue.
8. Sclerenchyma.
9. Structure of young anther.
10. Stomatal types.
11. Polarity in multicellular system with an example.
12. Transition from Vegetative to reproductive apex.

[P.T.O.]



(2)
PART - C

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III. Give a comprehensive account of any **four** of the following.

(4×8=32)

13. Describe complex permanent tissues.
 14. Describe the anomalous secondary growth in *Dracaena*.
 15. Describe the T.S of young dicot root.
 16. Give an account of structure and function of root apical meristem (RAM).
 17. Define endosperm and explain its types.
 18. Describe the structure of anatropous ovule and add a note on development of monosporic embryo Sac.
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