K26FY1212 Pages: 2 Reg No:.....
Name:.....

Second Semester FYUGP Degree (Reg/Sup/Imp) Examination April 2026

KU2DSCBOT102/KU2DSCPLS102 - ANGIOSPERM ANATOMY, EMBRYOLOGY AND PALYNOLOGY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Briefly describe the nodal anatomy
2. What is the role of the pericycle in root ?
3. What is the significance of the histogen theory in understanding plant development?
4. Differentiate between primary and secondary meristems.
5. What is megasporogenesis?
6. Name the types of endosperm ?
7. How does anomalous secondary growth differ from normal secondary growth? Write down any two features
8. Explain the significance of embryology

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Discuss the mechanisms of cross-pollination and their ecological significance.
10. Self-incompatibility promotes genetic diversity among plants. Comment on the statement
11. Critically evaluate the role of apomixis in plant reproduction?
12. Explain the concept of anomalous secondary growth and provide examples of plants that exhibit it.
13. How does the structure of the microsporangium support the process of microsporogenesis?
14. Discuss the process of male gametophyte development in angiosperms.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Explain the anatomy of leaves of dicots and monocots.Add a note on the major differences.

16. Explain the structural and functional differences between simple and complex permanent tissues. How do these tissues contribute to the survival and adaptation of plants?

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