K25FY4108 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination
November 2025
KU1MDCBOT101 - PLANT DIVERSITY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is cyathium?
2. What distinguishes a pentamerous flower, give one example?
3. How did Van Rheede contribute to the documentation of Indian flora in the 17th century?
4. Who is considered the Father of Botany, and what is his major contribution?
5. Compare phylloclade and cladode
6. Give an example of a plant with parallel venation and a plant with reticulate venation.
7. Define climbers and give two examples ?
8. Why is water essential for bryophyte reproduction?

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain root modifications seen in plants. And add a notes on its function.
10. Discuss the morphological structure of stems?
11. How leaves are arranged in branch? In what way phyllotaxy helpful for the plant.
12. Explain how annuals, biennials, and perennials are useful in agricultural practices and gardening.
13. Examine the main differences between gymnosperms and angiosperms in terms of vegetative morphology and reproductive features?
14. Analyze the ecological roles of algae and bryophytes.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Discuss and draw special and mixed types of inflorescence in plants with examples

16. (a) Dicuss the contributions made by Indian botanists.

    (b) Assess the long-term ecological significance of plants as producers and habitats for other organisms. Why is maintaining plant diversity crucial for ecosystem stability?

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