Reg No:..... K24FY1410 (B)
Name :.....

First Semester FYUGP Botany Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1DSCBOT103 (DIVERSITY OF PLANTS - I)
(DATE OF EXAM: 4-12-2024)

Time : 90 min Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. Outline the historical progression of the classification of organisms from Aristotle's taxonomy to the modern Six Kingdom Classification system. 2
2. Define the function of plasmodesmata in plant cells. 2
3. Differentiate between symplast and apoplast pathway. 2
4. Describe the basic differences between algae and bryophytes. 2
5. Describe the structure of a cleistothecium. 2
6. Define coenobium with example? 2
7. What is algal bloom? 2
8. Write down the medicinal uses of bryophytes with example? 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Comment on endosymbiotic theory? 6
10. Give a brief account on the plant cell structure? 6
11. Examine the structural adaptations of algal cells that enable them to thrive in aquatic environments. 6
12. What are the distinct characteristics of fungi? How ascomycetes are different from basidiomycetes? 6
13. Comment on the major food reserves seen in algae? 6
14. Comment the role of bryophytes in ecological succession? 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Critically assess the classification of plants into herbs, shrubs, trees, creepers, twiners, and epiphytes, analyzing their ecological significance. 14
16. (a) Apply your understanding of fungal fruiting structures to explain how fungi reproduce and disperse. 7
    (b) Analyze the symbiotic relationship in lichens and its ecological significance. 7

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