Reg No:..... K24FY 1410 (C)
Name :.....

First Semester FYUGP Botany Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1DSCBOT103 (DIVERSITY OF PLANTS - I)
(DATE OF EXAM: 6-12-2024)

Time : 90 min Maximum Marks : 50

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

1. Briefly describe the origin of the first cell according to modern scientific theories. 2
2. Define pit and pit aperture? 2
3. Diagrammatically represent the classification of fungi according to Ainsworth. 2
4. Explain the general structure of a fungal plant body? 2
5. Differentiate crustose and foliose lichens with example? 2
6. Describe the role of Lichens as bioindicators. 2
7. Briefly describe the classification of algae according to F.E. Fritsch. 2
8. What are algal blooms? 2

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

9. Explain endosymbiotic theory with neatly labelled diagrams. 6
10. Give and account on thickening of cell wall with illustrations? 6
11. What are the distinct characteristics of fungi? How ascomycetes are different from basidiomycetes? 6
12. Identify a major fungal disease affecting humans. Discuss its causes, symptoms, modes of transmission, and treatment options. 6
13. Create a flowchart explaining the classification of algae based on their thallus variation. 6
14. Examine the roles of algae and bryophytes in ecological succession and soil formation. 6

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

15. Explain the levels of organization from cells to organisms, providing detailed descriptions of each level. Also, present a morphological and functional account of the macroscopic forms of plant life, including roots, stems, leaves, flowers, fruits, and seeds. 14

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16. (a) Analyze the significance of plasmodesmata in plant cells, and evaluate how their function impacts plant tissue communication and overall growth. 7

(b) Differentiate between protoplasm and cytoplasm, detailing their composition and functions. Discuss the significance of cytoplasm in cellular processes and how it supports the organelles within the cell. 7

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