K25FY4313 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination
November 2025
KU1DSCBOT103 - DIVERSITY OF PLANTS - I

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Comment on the features of a prokaryote cell?
2. Write a note on Urey Miller experiment.
3. Describe the structure of a cleistothecium.
4. Give the distinct characteristics of fungi.
5. Briefly describe the classification of algae according to F.E. Fritsch.
6. Outline the general characteristics of pteridophytes.
7. Define the function of plasmodesmata in plant cells.
8. What are the non-living inclusions found in plant cells? Give examples.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Compare the salient features of Rhodophyceae and Phaeophyceae?
10. Comment on the major food reserves seen in algae?
11. Explain the role of vascular tissue in pteridophytes and how this feature differentiates them from bryophytes.
12. Discuss the significance of the cell as the fundamental unit of structure and function in living organisms. Include examples of different types of cells and their specific functions.
13. Explain the functions of different cell organelles in a plant cell.
14. Examine the structural adaptations of algal cells that enable them to thrive in aquatic environments.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Explain the origin of cells with a focus on prokaryotic and eukaryotic evolution. Highlight the significance of the endosymbiotic theory in the evolution of eukaryotic cells.

16. (a) Analyze the symbiotic relationship in lichens and its ecological significance.
    (b) Apply your understanding of fungal fruiting structures to explain how fungi reproduce and disperse.

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