Reg No:..... K24FY 1411 (C)
Name :.....

First Semester FYUGP Botany Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCBOT104 (PLANT ECOLOGY AND PHYTOGEOGRAPHY)

(DATE OF EXAM: 6-12-2024)

Time : 90 min Maximum Marks : 50

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

1. Explain environmental biology? 2
2. Explain the achievement of Research centers in ecology? 2
3. Which are the main research centers in Ecology? 2
4. How do climatic factors influence the structure of an ecosystem? 2
5. What is the difference between GPP and NPP? 2
6. What role do plants play in ecosystem structure? 2
7. Describe one ill effect of deforestation on ecosystem biodiversity. 2
8. What is Phytogeography? 2

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

9. What is the scope and importance of environmental studies? 6
10. Write on the importance of both autecology and synecology in conservation efforts 6
11. Discuss on ecological units from species to biosphere. Include definitions and examples for each level. 6
12. What is Biogeochemical Cycles? Explain Biogeochemical Cycles with the help of Nitrogen cycle. 6
13. Define Biodiversity and mention different types. 6
14. Write about Vegetation types of India 6

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

15. (a) Describe the biogeochemical cycles of carbon and nitrogen, highlighting their similarities and differences. Explain the significance of these cycles 7
    (b) Discuss the concept of ecological niche, highlighting its various components (fundamental niche, realized niche, and tolerance range). 7
16. Compare and contrast the general structure of pond and forest ecosystems. Discuss the role of abiotic and biotic factors in shaping these ecosystems. 14

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