Reg No:..... K24FY1411 (B)
Name :.....

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

(DATE OF EXAM: 4-12-2024)

Time : 90 min Maximum Marks : 50

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

1. Write the scope of environmental studies? 2
2. Explain the concept of a community. 2
3. Explain the significance of the carbon cycle 2
4. Describe the role of decomposers in the nitrogen cycle. 2
5. What are pioneer species in primary succession? Provide an example. 2
6. What are the adaptations of Hydrophytes? 2
7. Name two endangered plant species endemic to the Western Ghats. 2
8. State two topographic factors influencing plant distribution. 2

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

9. Define environmental studies and describe how it differs from both ecology and environmental science. What are its main objectives? 6
10. Write on the basic structure of ecosystems. 6
11. Explain the terms Ecotone, Edge Effect, Ecads and Ecotypes with the help of examples. 6
12. Compare and contrast parasitic plants (holoparasites and hemiparasites), highlighting their adaptations 6
13. Why India is considered as a megadiversity centre. 6
14. Describe the concept of dynamic phytogeography, highlighting its significance in understanding plant distribution and diversity. 6

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

15. Discuss on Pyramid of number, pyramid of biomass and pyramid of energy in an ecosystem with the help of diagram 14
16. Write on Ecology. Compare environmental biology, environmental science and environmental studies? 14

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