K25FY4228 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination November 2025

KU1DSCFOR101 - FOREST AND FOREST ECOLOGY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Identify the primary climate type of tropical rain forest
2. Name two animal species commonly found in tropical rain forests.
3. List the natural causes of ecological succession.
4. What is secondary succession? Explain how it differs from primary succession with an example.
5. Briefly describe the early history of Indian forestry.
6. What are Myristica swamp forests, and why are they rare?
7. Define ecology
8. Describe how the concept of association helps in understanding species interactions within forest ecosystems.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Given Kerala's diverse forest types, propose a conservation strategy that accounts for altitude-based vegetation changes. Explain how this approach could support both biodiversity and local communities.
10. Discuss how the historical development of forestry during the colonial period in India affects current forest management practices.
11. Evaluate the challenges in conserving Myristica swamps and propose a strategy for raising public awareness and involving local communities in their preservation.
12. Assess the ecological role of producers, consumers and decomposers in an ecosystem
13. Design a conceptual diagram that illustrates the structure of a forest ecosystem, including the biotic and abiotic components. Label the key elements and explain how they interact to maintain the ecosystem's health and stability.

14. Assess the importance of association and consociation in a forest community. In your opinion, which would be suitable for a healthy environment?

Section C

Answer any 1 questions. Each carry 14 marks.

15. Address the factors distinguishing a temperate coniferous forest and tropical rain forest biome. Illustrate how does the deforestation affects both biomes. (14 Marks)

16. Investigate the stages of forest succession leading to climax vegetation. Discuss the role of pioneer species in this process and how they contribute to the establishment of later successional stages.

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