Reg No:..... K24FY1328
Name :.....

First Semester FYUGP Forestry Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1DSCFOR101 (FOREST AND FOREST ECOLOGY)

(DATE OF EXAM: 2-12-2024)

Time : 90 min Maximum Marks : 50

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

1. Name two animal species commonly found in tropical rain forests. 2
2. Indian forestry practices dates back to the Indus valley civilization. Justify 2
3. How can you relate various branches of Forestry 2
4. Define evergreen forests and mention two characteristic tree species found in Kerala's evergreen forests. 2
5. Give two examples of the primary consumer. 2
6. List the steps involved in decomposition. 2
7. List the levels of organizations within an ecosystem 2
8. Define primary succession and provide an example of an environment where it occurs. 2

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

9. Compare and contrast abiotic and biotic factors of aquatic biomes 6
10. Critically assess the Champion and Seth classification of forest types in India. How might this system need updating to reflect current environmental and conservation needs? 6
11. Suggest practical conservation measures that could protect the unique Shola forest ecosystem in Kerala from human and climate impacts. 6
12. Justify the statement: "Energy flows through ecosystems in a one-way direction." Explain why this is the case and analyze the implications for ecosystem stability and sustainability. 6
13. Illustrate a comprehensive conceptual model for forest dynamics and analyze the disturbances affect the community? 6
14. Assess the ecological significance of xerarch and hydrarch succession in restoring in biodiversity 6

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

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15. Examine the roles of autogenic and allogenic factors in driving ecological succession. Provide specific examples of how each type of factor can influence the trajectory of succession in a particular ecosystem. 14

16. Describe the characteristics of freshwater and marine biomes, focusing on their abiotic and biotic components. How do these characteristics shape the ecological roles of various species? 14

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