Reg No:..... K24FY 1449 (C)
Name :.....

First Semester FYUGP Forestry Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCFOR102 (INTRODUCTION TO FOREST RESOURCES)

(DATE OF EXAM: 6-12-2024)

Time : 90 min Maximum Marks : 50

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

1. What role do forests play in the carbon cycle? 2

2. Identify and explain one ecosystem service provided by forests. 2

3. Describe one key characteristic feature of evergreen forests. 2

4. Name two benefits of ecotourism for local communities living near forested areas. 2

5. How does urbanization contribute to deforestation? 2

6. What are the effects of rising temperatures on tree growth and health? 2

7. What is one method used to control invasive species in forested areas? 2

8. What is the National Forest Policy of 1988? Summarize its main goals for forest conservation and sustainable development. 2

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

9. Apply your knowledge of forest classification to evaluate the significance of mixed forests. How do they differ from pure forests in terms of biodiversity and ecological function? 6

10. Compare and contrast the species composition of deciduous forests with that of evergreen forests. Analyze how these differences affect the resilience of each forest type to environmental changes. 6

11. Evaluate the impact of illegal logging on forest economies. What strategies can be implemented to combat this issue and promote sustainable practices? 6

12. Discuss the differences between deforestation and forest degradation. Analyze the implications of each for forest health and ecosystem services. 6

13. Apply your knowledge of carbon sequestration to propose a strategy for using forests as a tool in climate change mitigation. Describe the components of your strategy, such as reforestation, afforestation, or improved forest management, and explain how it would help reduce atmospheric carbon levels. 6

14. Examine the role of India's Wildlife Protection Act of 1972 in conserving forest biodiversity. Analyze how the Act's provisions for protected areas, hunting restrictions, and species protection help safeguard forest ecosystems. 6

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

15. Analyze how forests contribute to climate regulation. Create a policy proposal for a national initiative that leverages forest ecosystems to mitigate climate change impacts, including specific actions and expected outcomes. 14

16. Critique the success of Project Elephant in reducing human-elephant conflicts and preserving elephant habitats. Analyze its achievements and limitations, and suggest ways to enhance its effectiveness in balancing conservation and human needs. 14

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