K25FY4358 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination November 2025
KU1DSCFOR102 - INTRODUCTION TO FOREST RESOURCES

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Define 'Joint Forest Management (JFM).' How does this policy encourage community participation in forest conservation?

2. Describe the significance of the Wildlife Protection Act of 1972. How does this Act contribute to forest and biodiversity conservation in India?

3. What role do forests play in preserving biodiversity?

4. Name one key ecological service provided by forests that benefits agriculture.

5. Compare the biodiversity of tropical forests to temperate forests.

6. Identify one unique feature of Kerala's forest ecosystems.

7. What is the difference between deforestation and afforestation? Explain how afforestation can help mitigate the effects of deforestation.

8. What are forest diseases? Explain how pathogens can lead to significant declines in forest health and diversity.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Discuss the role of forests in regulating the Earth's climate. Analyze the potential consequences of forest loss on global temperature and weather patterns.

10. Discuss how deforestation in one region affects the global distribution of forests. Include potential consequences for biodiversity and climate.

11. Evaluate the characteristic features of evergreen forests and discuss how these features support biodiversity.

12. Analyze the impact of deforestation on the water cycle in tropical forest regions. Discuss how large-scale tree removal can influence rainfall patterns, river flow, and water availability for local communities.

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13. Apply the concept of ecosystem-based adaptation to propose a forest management approach that addresses climate change, invasive species, and disease threats simultaneously. Outline the key components of this approach and discuss how it would build resilience in forest ecosystems.

14. Analyze the role of forest management practices in controlling the spread of invasive species and diseases. Discuss the effectiveness of current strategies, such as biological control, sanitation measures, or controlled burning, and evaluate their potential for long-term forest health preservation.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Assess the challenges faced by forest organizations in implementing conservation strategies. Develop a strategic framework that addresses these challenges, incorporating best practices and lessons learned from successful organizations.

16. Design a research project that investigates the role of forests in carbon sequestration. Evaluate the methodologies for measuring carbon storage in forests and propose recommendations for enhancing their carbon sequestration capacity.

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