

D 104701

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Name.....

Reg. No.....

**FOURTH SEMESTER INTEGRATED PG REGULAR/SUPPLEMENTARY/  
IMPROVEMENT EXAMINATION, APRIL 2024  
(FOR 2021 AND 2022 ADMISSION) AND FOURTH SEMESTER INTEGRATED  
PG SUPPLEMENTARY/IMPROVEMENT EXAMINATION, APRIL 2023 (FOR  
2020 ADMISSION)**

Common Course

A13—NATURAL RESOURCE MANAGEMENT

Time : Two Hours and a Half

Maximum : 80 Marks

**Section A (Short Answer Questions)**

*Answer all questions.*

*Each question carries 2 marks.*

*Maximum marks from Section A is 25.*

1. What is the primary characteristic of inexhaustible natural resources ?
2. How does the concept of green growth align with sustainable utilization ?
3. How does the precautionary principle apply to ecological approaches ?
4. How does ecological footprint analysis contribute to sustainable utilization ?
5. Give an example of how socio-cultural factors can influence sustainable resource utilization.
6. What is soil degradation ?
7. What is crop rotation, and how does it contribute to soil management ?
8. How does eutrophication affect freshwater ecosystems ?
9. What is Integrated Coastal Zone Management (ICZM) ?
10. How does Sustainable Fisheries Management contribute to marine environment preservation ?
11. How does biodiversity contribute to ecosystem stability ?
12. Why is bioprospecting important ?
13. Give an example of an in-situ conservation strategy.
14. What is a montane forest ?
15. Which organization oversees international efforts to combat climate change ?

(Ceiling 25 marks)

**Turn over**

**Section B (Paragraph Questions)**

*Answer all questions.*

*Each question carries 5 marks.*

*Maximum marks from the Section B is 35.*

16. What is the role of remote sensing in natural resource management ?
17. What types of sensors are commonly used in remote sensing ?
18. How does GIS contribute to natural resource management ?
19. How is the ecological footprint calculated ? What does a carbon footprint specifically measure ?
20. What is the relationship between Resource Accounting and sustainability ?
21. Purpose of recycling in waste management.
22. Explain the concept of the “precautionary principle” in biodiversity management.
23. What is the Ramsar convention, and what does it focus on ?

(Ceiling 35 marks)

**Section C (Essay Questions)**

*Answer any two questions.*

*Each question carries 10 marks.*

24. What is a National Biodiversity Action Plan (NBAP) ? Why are National Biodiversity Action Plans important ?
25. What is forest cover ? What is its importance ? What is the significance of forest cover in mitigating climate change ?
26. What is Environmental Impact Assessment (EIA) ? Why is EIA important ? What is EIA typically conducted ? What are the key components of an EIA ?
27. What are the primary methods of waste disposal ?

( $2 \times 10 = 20$  marks)