

FOURTH SEMESTER B.VOC. (PROGRAMME) DEGREE EXAMINATION APRIL 2025

FOURTH SEMESTER INTEGRATED P.G DEGREE EXAMINATION APRIL 2025/APRIL 2024

Common Course

A13—NATURAL RESOURCE MANAGEMENT

(2021 Syllabus)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A (One Word)

*Answer **all** questions.*

Each question carries 1 mark.

1. What is the primary characteristic of non-renewable natural resources ?
2. How does eco-efficiency contribute to sustainable development ?
3. How does the polluter pays principle differ from the user pays principle ?
4. How does carrying capacity relate to sustainable resource use ?
5. Give an example of how technological factors can influence sustainable resource utilization.
6. What is land degradation ?
7. What is contour plowing, and how does it contribute to soil conservation ?
8. How does deforestation impact climate change ?
9. What is watershed management ?
10. How do marine reserves contribute to fish population recovery ?
11. How does species diversity contribute to ecosystem productivity ?
12. Why is habitat restoration important ?
13. Give an example of a community-based conservation strategy.
14. What is an evergreen forest ?
15. Which organization oversees global efforts to combat desertification ?

(Ceiling 25 Marks)

Turn over

Section B (Paragraph Questions)

*Students can answer **all** questions in Section B.*

Each question carries 5 marks.

Maximum Marks from the Section B is 35.

16. What is the role of participatory management in natural resource conservation ?
17. What are the main components of a Geographic Information System (GIS) ?
18. How does Remote Sensing contribute to disaster management ?
19. How is the ecological footprint different from the water footprint ?
20. What is the relationship between Environmental Management Systems (EMS) and sustainability ?
21. Purpose of anaerobic digestion in waste management ?
22. Explain the concept of “ecosystem services” and its importance.
23. What is the Kyoto Protocol, and what does it focus on ?

(Ceiling 35 Marks)

Section C (Essay Type Questions)

*Answer any **two** of the following.*

Each question carries 10 marks.

24. What is a National Environmental Action Plan (NEAP) ? Why are National Environmental Action Plans important ?
25. What is urban forestry ? What is its importance ? What is the significance of urban forestry in improving urban environments ?
26. What is Social Impact Assessment (SIA) ? Why is SIA important ? When is SIA typically conducted ? What are the key components of an SIA ?
27. What are the primary challenges in implementing waste-to-energy technologies ?

(2 × 10 = 20 marks)