

**Ph. D. (ENVIRONMENTAL
SCIENCE) (PHDEV)**

Term-End Examination

December, 2025

**REVE-002 : SUSTAINABLE RESOURCE
MANAGEMENT**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any **ten** questions.

(ii) All questions carry equal marks.

1. Define natural resources and discuss their ecological classification with suitable examples. 10
2. Discuss the major threats to global mineral resources and their sustainable management strategies. 10
3. Evaluate the importance and challenges of land resources management in ensuring sustainable development. 10

4. Describe the potential and limitations of solar and hydropower energy in sustainable development. 10
5. Analyze the economics, adoption potential and constraints of biomass energy in rural societies. 10
6. Explain the role of wildlife in maintaining ecological balance and human wellbeing. 10
7. Explain the concept of ecosystem services, categories them giving examples from different ecosystem. 10
8. Discuss In-situ and Ex-situ conservation methods and their efficacy in conserving global biodiversity. 10
9. Discuss the factors influencing the availability and distribution of natural resources on Earth. 10
10. Examine the trade-offs between economic viability and ecological sustainability in resource use. 10
11. Describe resource economics and its significance in modern environmental policy and management. 10
12. Analyse the role of national natural resource management programmes and schemes promoting sustainable livelihoods. 10

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13. Explain the linkages between resource governance, community involvement and livelihood security. 10

14. Explain the sustainable approaches to ecosystem rehabilitation and restoration with reference to wetlands, forests and mangroves. 10

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