

**POST GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE
(PGDSS)**

Term-End Examination

December, 2025

**MSD-012 : ECOSYSTEM AND NATURAL
RESOURCES**

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *ten* questions. All questions carry equal marks.

1. Define Ecosystem. Explain the structure and functions of ecosystem. 2+8
2. Differentiate between biodiversity hotspots and megadiversity. 10
3. Explain the concept of various categories of IUCN red list with examples. 10

4. What is soil ? Explain its major characteristics. 2+8
5. Write an essay on the different types of water pollution in India. 10
6. Elaborate the impacts of economic development on the global water distribution patterns. 10
7. State the advantages and limitations of any *two* alternative sources of energy. 10
8. Explain the different phases of mining and generated waste in the process. 10
9. Explain the bubble pattern of resource depletion. 10
10. Write short notes on the following : 5+5
 - (a) Agro-biodiversity-food security linkages
 - (b) Green Revolution as a threat to agro-biodiversity
11. How do the modern agricultural practices affect the agro-biodiversity ? Explain. 10
12. Describe any *two* issues related to sustainable use of plant resources in India. 10

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