

**MASTER OF ARTS IN
SUSTAINABILITY SCIENCE/POST
GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE
(MASS/PGDSS)**

Term-End Examination

June, 2026

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

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

1. Describe the structure of aquatic ecosystem.

10

2. What is Goods or Provisioning Service ?
What are the major provisioning services provided by mountain ecosystem ? 2+8
3. Explain various categories of IUCN Red list with suitable examples. 10
4. Discuss any *two* unsustainable land use practices in India with a focus on its impacts on livelihood systems. 10
5. Write an essay on soil profile and soil structure with suitable diagram. 10
6. List the major benefits and conflicts of Trans-boundary water sharing. 10
7. Explain the concept of resource and waste. 10
8. What are the different phases of mining and types of waste generated by the different mining steps ? 5+5
9. Discuss the concept of recycling, substitution and durability as a means to deal mineral scarcity. 10

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10. Explain the role of agro-biodiversity in maintaining the health of ecosystem in an ecological landscape. 10
11. Discuss any policy framework of the Government of India to protect the plant genetic resource. 10
12. Write the major impacts of adoption of Genetic Engineered Crops in India. 10

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