

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

Term-End Examination

December, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

1. What is 'Trophic Organization' ? Explain the structure of trophic organization with suitable examples and diagram. 2+8=10
2. Explain the different levels of Biodiversity with examples. 10
3. "Man-wildlife conflict is one of the basic concerns to ecological conservation in India." Discuss. 10

4. Discuss any *four* biodiversity conservation programmes in India. 10
5. What are the opportunities and conflicts of Transboundary water sharing ? Explain. 10
6. Describe the different types of water quality parameters. 10
7. Differentiate between 'soil fertility' and 'soil quality'. Explain any *two* major impacts of conventional agriculture on soil health. 4+6=10
8. Discuss the limitations and benefits of Integrated Land Management. 10
9. How are resource right of life forms and resource flow in nature related ? Explain. 10
10. Define biofuels. Discuss in brief on the advantages and disadvantages of biofuels. 2+8=10
11. Discuss the major factors responsible for the scarcity of minerals. 10
12. Write in detail on any *two* recent India's initiatives to energy conservation. 10

[3]

13. Explain the role of agrobiodiversity in improving the livelihoods of farmers in India with suitable examples. 10
14. What is participatory plant breeding ? Explain how the women play a key role in agrobiodiversity conservation in India. 4+6=10

x x x x x x x