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MSD-012

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

Term-End Examination

June, 2023

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

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any **ten** questions in about
500 words each.

(ii) All questions carry equal marks.

1. Describe the flow of matter and energy in an ecosystem. 10
2. Differentiate between the three levels of biodiversity with suitable example. 10
3. Why biodiversity loss is a concern ? Explain. 10

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4. Write an essay on *In situ* Biodiversity conservation strategies in India. 10
5. Write short notes on any *two* of the following : 5+5
- (a) Maximum Sustainable Yield
 - (b) Non-Renewable Resource
 - (c) Tidal Energy
6. What factors are responsible for scarcity of mineral resources ? Differentiate between exponential reserves and static reserves. 5+5
7. Explain the importance of energy and matter quality in solving environmental problems with suitable examples. 10
8. What is Land Degradation ? What are the major reasons of land degradation in India ? 10
9. How does mineralization differ from immobilisation ? Explain the role of organic matter in soil. 5+5

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10. Elaborate the unique properties of water and their significance. 5+5
11. Define the term 'Agrobiodiversity' ? How does agrobiodiversity contribute in sustainable food security ? Explain. 3+7
12. Write an essay on the threats to animal genetic diversity in India. 10