

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

**Term-End Examination**

**December, 2023**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** *Attempt any **ten** questions in about  
500 words. All questions carry equal marks.*

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1. What is food chain and food web ? Explain the terrestrial food chain system with a suitable example. 5+5
2. Define the terms 'Biodiversity' and 'Biodiversity Hotspots'. Briefly explain the cultural services given by biodiversity. 5+5
3. Write short notes on any *two* of the following : 5+5
  - (a) Convention on Biological Diversity
  - (b) Protected Areas
  - (c) *Ex-situ* Conservation

4. What is soil profile ? Explain with suitable diagram. 10
5. Explain the role of vegetation in Hydrological cycle. 10
6. Write an essay on 'climate change and global water resources.' 10
7. Enumerate different types of energy resources. 10
8. Define biofuels. Describe in brief on various types of biofuels. 4+6
9. Describe in brief on types of waste generated during mining and their management. 10
10. Explain the different ways of conserving energy resource. 10
11. Discuss the impacts of green revolution on the loss of agrobiodiversity in India. 10
12. Explain in brief on any *two* major policy framework at international level for assuring sustainable use of agrobiodiversity. 10