

No. of Printed Pages : 3

**MSD-012**

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

**Term-End Examination**

**December, 2022**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** *Attempt any **ten** questions. Each question carries 10 marks.*

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1. What is the difference between community and ecosystem ? Discuss ecosystem functions. 3+7
2. Write short notes on the following : 5+5
  - (a) *Ex-situ* conservation strategies
  - (b) Man-wildlife conflict
3. What are the major factors leading to biodiversity loss ? How are we affected by biodiversity loss ? 5+5

**P. T. O.**

4. Write short notes on the following : 5+5
- (a) Ganga Action Plan
  - (b) Transboundary impacts of water pollution
5. Define hydrological cycle. Discuss the role of vegetation in the hydrological cycle. 3+7
6. Write short notes on the following : 5+5
- (a) Hydropower
  - (b) Wind energy
7. What is biofuel ? Describe in brief the various types of biofuels. 2+8
8. Describe the impacts of mining on the environment. What is mine restoration ? 6+4
9. Discuss the various types of waste generated in mining processes. Explain mining waste management methods. 5+5
10. What is conservation of resources ? How can we conserve energy resources ? 2+8

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11. Discuss traditional knowledge and agrobiodiversity. How does participatory plant breeding help in agrobiodiversity conservation ? 5+5
12. Write short notes on the following : 5+5
- (a) Concept of resources and waste
  - (b) Climate change and water resources of the world