

No. of Printed Pages : 3

**MSD-012**

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

**Term-End Examination**

**December, 2021**

**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 ecosystem structure in terms of :
  - (a) Components 3
  - (b) Trophic Organization 3
  - (c) Species Composition and Stratification 4
2. (a) Discuss how ecosystem services are important for human well-being. 5
- (b) Discuss human intervention in ecosystem. 5

3. Explain the importance of biodiversity in terms of :
  - (a) Cultural Services 3
  - (b) Goods or provisioning services 3
  - (c) Ecological services 4
4. Describe the properties of water and the uses of water. 10
5. Discuss the impacts of mining on the environment. Describe mine restoration processes. 5+5
6. (a) Explain the concept and scope of agrobiodiversity. 5
- (b) Discuss agrobiodiversity and climate change. 5
7. Write short notes on the following :  $4 \times 2 \frac{1}{2} = 10$ 
  - (a) Nuclear Energy
  - (b) Oil
  - (c) Tidal Energy
  - (d) Energy from Biomass

**P. T. O.**

[ 3 ]

8. Describe the various sources of water pollution and its impacts on living organisms. 5+5
9. Write short notes on the following :
- (a) Biodiversity loss 5
  - (b) Extinction of species 5
10. (a) Discuss the management of animal genetic diversity. 5
- (b) Describe the role of traditional knowledge in agrobiodiversity conservation. 5
11. Describe the effects of agriculture on agrobiodiversity. 10
12. Explain the concept of energy conservation in terms of :
- (a) Improving energy efficiency 3
  - (b) Energy saving awareness 4
  - (c) Role of government 3