

No. of Printed Pages : 2

MSD-012

**POST GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE**

(P. G. D. S. S.)

Term-End Examination

December, 2020

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

Time : 3 Hours

Maximum Marks : 100

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

1. Discuss energy flow in an ecosystem. 10
2. Define decomposition. Describe the importance of decomposition in an ecosystem. 2, 8
3. Discuss different unsustainable landuse practices and consequent land degradation. 10
4. Explain the role of vegetation in hydrological cycle. 10

[2]

5. Discuss, how climate change is affecting the water resources globally. 10
6. Discuss energy storage systems and the future alternative sources of energy generation. 5, 5
7. Describe the impacts of mining on the environment. Discuss mine restoration. 5, 5
8. Discuss the effects of fertilizer and pesticide application on agro-biodiversity. 10
9. Discuss the role of traditional knowledge in conservation of agro-biodiversity. 10
10. Explain the different approaches to biodiversity conservation. 10
11. Discuss any *two* ancient Indian methods of water conservation. 10
12. Explain resource management and sustainable yield with suitable examples. 10