

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

Term-End Examination

June, 2022

MSD-012: ECOSYSTEM AND NATURAL RESOURCES

Time : 3 hours

Maximum Marks : 100

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

1. Discuss ecosystem structure with an emphasis
on the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Ecosystem components
 - (b) Trophic organization
 - (c) Species composition and stratification
 - (d) Size, scale and boundaries
2. What is Land Use Management ? Discuss land
use pattern and land management in India. $5+5=10$

- 3.** What are Natural Resources ? Describe the various types of natural resources with examples. *5+5=10*
- 4.** Explain renewable and non-renewable energy resources with suitable examples. *5+5=10*
- 5.** Write short notes on the following : *5+5=10*
- (a) Types of Mineral Resources
 - (b) Impacts of Mining on Environment
- 6.** Define Agrobiodiversity. Discuss its features and role in biodiversity conservation. *2+8=10*
- 7.** Write short notes on the following : *5+5=10*
- (a) Community-based Agrobiodiversity Conservation
 - (b) Gender and Agrobiodiversity
- 8.** What is Biodiversity ? Explain the uses and importance of biodiversity. *2+8=10*
- 9.** Describe soil profile and soil formation process. *5+5=10*

- 10.** Explain the hydrological cycle. Write a note on global rainfall pattern and its ecological implications. *5+5=10*
- 11.** Define Water Pollution. Discuss the impacts of water pollution on environment and human health. *2+8=10*
- 12.** What are Biofuels ? Discuss how energy is generated from biomass. *10*
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