

**POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT (PGDESD)**

**Term-End Examination**

**February, 2021**

**MED-001 : UNDERSTANDING THE ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

**Note :** Answer any **five** questions. All questions carry equal marks.

1. Answer any **two** of the following :  $2 \times 5 = 10$
- (a) Give an account of any two patterns of dispersion of population.
  - (b) Discuss the origin and role of aerosols in the atmosphere.
  - (c) Describe different types of rocks.
  - (d) How are Polar Easterlies formed ?

**OR**

Differentiate between any **four** of the following :  $4 \times 2 \frac{1}{2} = 10$

- (a) Rayleigh scattering and Mie scattering of Earth's radiation
- (b) Waves and Currents of oceans
- (c) Gross Primary Productivity and Net Primary Productivity
- (d) Ecosystem Resistance and Ecosystem Resilience
- (e) Food Chain and Food Web

2. What are Persistent Organic Pollutants (POPs) ?  
List any six of the POPs as identified by UNEP  
and mention one use of each. 4+6=10

3. Explain the concept of Ecosystem. Describe its  
components with examples. 10

**OR**

(a) Tabulate the grouping of organisms  
according to principal sources of carbon  
and energy. 5

(b) Name the most diverse, highly complex  
and most productive biome. Present a  
comprehensive account of some of the  
common characteristics of the biome  
named by you. 1+4=5

4. Discuss the measures that can be adopted for  
conservation of land, soil and water resources. 10

5. Write notes on any **four** of the following :  $4 \times 2 \frac{1}{2} = 10$

(a) Thermal properties of water

(b) Benthos

(c) Impact of agriculture-based societies on  
environment

(d) Gaia hypothesis

(e) Phosphorus cycle

6. Discuss the influence of population growth on  
resource use. 10

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