

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

Term-End Examination

June, 2022

MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

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

1. Answer any **five** of the following : $5 \times 2 = 10$

- (a) Explain Gaia hypothesis. Why is it considered revolutionary ?
- (b) What are lentic and lotic communities ?
- (c) Discuss the climate in polar regions.
- (d) What is symbiosis ? List its three types.
- (e) Draw a schematic diagram of an ecosystem.
- (f) What do you understand by the concept of conservation ?

2. (a) What are biomes ? Describe their important features. 1+4=5
- (b) Define a food chain. Name its two major types, giving suitable examples. 1+4=5

OR

- (a) Draw the carbon cycle and list four natural ways by which carbon returns to the atmosphere. 5
- (b) Discuss the survival strategies for plants under warm desert conditions. 5
3. Differentiate between any **four** of the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Specific heat and Latent heat of fusion of water
- (b) Nekton and Neuston
- (c) Gross Primary Productivity and Net Primary Productivity
- (d) Ecosystem resistance and Ecosystem resilience
- (e) Biodegradable and Non-biodegradable pollutants

4. (a) Describe various parameters required to ensure the water quality fit for consumption. 10

OR

- (b) Describe the important aspects of human evolution, highlighting trends in the use of natural resources. 10
5. Explain the processes involved in the formation of soil. 10
6. (a) Describe the subzones of vegetation in the littoral zone. 5
- (b) Write a detailed account of intra-specific community interactions. 5
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