

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

**Term-End Examination**

00512 December, 2018

**MED-001 : UNDERSTANDING THE ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

*Note : All questions are compulsory.*

1. Explain any **five** of the following in about fifty words each : **5×2=10**
- (a) Savannas
  - (b) Scattering of light
  - (c) Benthic zone
  - (d) Eutrophication
  - (e) Transition zone communities
  - (f) Temperate deciduous forests
  - (g) Estuaries

2. Attempt any *two* of the following :

- (a) What is nutrient budget ? Explain how the cycling of nutrients helps in maintaining the nutrient budget of the forest ecosystem. 5
- (b) Write an account of energy efficiency in ecosystems. 5
- (c) Write a note on biomedical waste. 5

3. (a) What factors led to the rapid growth of population in India ? Why is it so important to contain our population growth ? 5
- (b) "Oceans are the most important resources for all nations." Comment. 5

**OR**

With the help of a diagram, describe the thermal stratification in a temperate lake. 5

4. (a) What is meant by non-renewable and renewable energy ? Discuss the various renewable energy sources. 5
- (b) What are the factors that lead to enhancement of global warming ? Discuss its effects. 5

**OR**

What are the consequences of human activities on tropical rain forests ? 5

5. (a) What are the three R's of waste management ? Give some suitable examples. What is the role of vermicomposting in waste management ? 5
- (b) Which parameters of soil are influenced by its structure ? 5

**OR**

Discuss the thermal properties of water. 5

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