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MED-001

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

**Term-End Examination**

**December, 2019**

**MED-001 : UNDERSTANDING THE ENVIRONMENT**

*Time : 2 Hours*

*Maximum Marks : 50*

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*Note : All questions are compulsory.*

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1. Answer any **five** of the following :  $5 \times 2 = 10$
- (a) Differentiate between Weather and Climate.
  - (b) Explain the term bioconcentration.
  - (c) State GAIA hypothesis postulated by James Lovelock.
  - (d) Point out the difference between Gross Primary Productivity and Net Primary Productivity.

- (e) What is Coral Bleaching ?
- (f) What is soil aeration ? Why is it important ?

2. Attempt any *two* of the following :

- (a) Prepare a table showing the grouping of organisms based on principal sources of carbon and energy. Add an explanatory note. 3+2=5

- (b) With the help of a simple diagram, describe the vertical structure of ocean based on depth. 2+3=5

- (c) Name the inputs and outputs of a stream ecosystem that flows across a forest. How are ecosystems classified on the basis of inputs and outputs ? 4+1

3. Do you think that human population can cross the carrying capacity of the planet ? If your answer is *yes* then explain as to what problems might arise in such a situation. If your answer is *no* then justify. 10

Or

How are deserts formed ? Describe the various survival strategies for plants and animals under warm desert conditions. How have human activities effected these deserts of the world ?

2+4+4=10

4. Attempt any *two* of the following :

(a) Reason out the following :

(i) Pyramid of biomass can be upright or inverted.  $2\frac{1}{2}$

(ii) Pyramid of energy is always erect.  $2\frac{1}{2}$

(b) Give an account of subzones in vegetation in the littoral zone of lakes. 5

(c) (i) Explain El-Nino phenomenon. 2

(ii) Name the largest lake in the world. 1

(iii) What do you understand by social forestry programme ? 2

5. (a) Highlight the Indian efforts on global environment pollution control. 5

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- (b) Prepare a comprehensive account of influence of population growth on resource use. 5

*Or*

What do you understand by water sources degradation ? How does it affect the people, flora and fauna ? 10