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MED-001

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

Term-End Examination

June, 2020

MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

Note : (i) Attempt any five questions.

(ii) All questions carry equal marks.

1. Answer any *five* of the following : 2 each
- (a) List the different strata of the atmosphere based on temperature.
- (b) Expand any *four* of the following :
- (i) PAN
 - (ii) IPCC
 - (iii) SPM
 - (iv) CFCS
 - (v) GHG

P. T. O.

- (c) Draw a well labelled diagramme depicting hydrological cycle.
- (d) Tropical forest soil is not suitable for growing food grains. Why ?
- (e) List any *four* chronic health effects of air pollutants on human health.
- (f) How is soil texture different from soil structure ?
2. (a) What do you understand by Adaptation ? Describe the adaptations of mangrooves vegetation. 1, 4
- (b) Briefly describe the different life zones of lakes based on abiotic environmental variables. 5

Or

Differentiate between any *four* of the following : $2\frac{1}{2}$ each

- (a) Autotrophs and Heterotrophs
- (b) Bioaccumulation and Biomagnification

- (c) Crude density and Ecological density of a population
 - (d) Atmosphere and Biological nitrogen fixation
 - (e) Conservation and Ecological restoration
3. Discuss the factors that led to rapid growth of population in India. Why is it important to limit our population growth ? 10

Or

Describe various types of environmental degradations caused by human activities.

4. (a) Explain, giving examples the ecosystem resistance and ecosystem resistance with appropriate examples. 5
- (b) Describe the components of ecosystem. 5
5. Discuss with the help of suitable examples the interspecific interactions in maintaining community structure. 10

Or

Describe the causes of degradation of water resources and its conservation.

6. Write short notes on any *four* of the following : $2\frac{1}{2}$ each

- (a) Albedo
- (b) Energy flow in an ecosystem
- (c) Sources of surface water pollution
- (d) Human evolution
- (e) Deforestation