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**MED-001**

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

**Term-End Examination**

**June, 2023**

**MED-001 : UNDERSTANDING THE ENVIRONMENT**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** (i) *All questions are compulsory.*

(ii) *All questions carry equal marks.*

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1. Answer any **five** of the following :  $5 \times 2 = 10$
- (a) Name the different strata of the atmosphere.
  - (b) Write *two* sources of radiation pollution.
  - (c) Expand any *two* abbreviations :
    - (i) PAN
    - (ii) CFCs
    - (iii) SPM

**P. T. O.**

- (d) Name the *three* main eras of Geological Time Scale. Which of these is the most recent ?
- (e) Give names of any *two* plants and *two* animals that occur in polar region.
- (f) What is the difference between atmospheric and biological nitrification ?
2. Answer any *two* of the following :  $5 \times 2 = 10$
- (a) What are the main categories of soil organisms ? How do these effect the soil fertility ?
- (b) Explain Pycnocline and Thermocline.
- (c) What is meant by primitive atmosphere ? Name *four* important gases present in it. Did it support life ? Explain your answers.
3. (a) Differentiate holozoic and saprophytic nutrition. 5
- (b) Describe main characteristics that distinguish viruses from bacteria. 5

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4. (a) Explain why the pyramid of biomass can be erect or inverted and explain why pyramid of energy is always erect. 3+2
- (b) Why is the phosphorus cycle classified as sedimentary? Draw the cycle. Explain how phosphorus becomes a pollutant.

$$1 + 2\frac{1}{2} + 1\frac{1}{2}$$

*Or*

Define a biome. What governs the distribution of different biomes on the earth. Why is it important to prioritise conservation of tropical terrain? 10

5. (a) Discuss why we should be concerned about the environment. 5
- (b) List inter-specific interactions among individual of a species and describe any *one* of them. 5

*Or*

Discuss the problems of natural resources degradation in relation to human population. 10