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MED-001

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

Term-End Examination

December, 2023

MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

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

(ii) *All questions carry equal marks.*

1. (a) Explain the difference between external and internal environment. 2
- (b) List different types of rocks. 2
- (c) Diagrammatically depict the average relative proportions of various kinds of soil organisms. 2
- (d) Differentiate between food chain and food web. 2

P. T. O.

(e) What do you understand by resilience and ecosystem resistance ? 2

2. Give a detailed account of Tropical Rain Forest. Highlight the consequences of human activities on tropical rain forests. 8+2

Or

How are deserts formed ? Explain why in spite of hostile environmental conditions deserts contain a rich variety of plants and animals. Describe how human activities have affected the warm deserts of the world. 2+4+4

3. Explain the formation of different types of Estuaries. 10

Or

Explain the terms bioaccumulation and biomagnification. Describe the basic characteristics that are common to an ecosystem. 1+3+6

4. (a) Explain adaptation. 1

(b) How are mangroves adapted to survival on :

3

(i) Saline soil

(ii) Poorly aerated soil and at

(iii) Water's edge

[3]

- (c) Describe the ways in which the invertebrates face strong wave action ? Give examples to mention *three* different adaptations. 6

Or

- (a) What is nitrogen fixation ? Explain the ways by which nitrogen is fixed in nature. 5
- (b) What are Stony Grab ? State their role in marine environment. 5
5. (a) What impact did industrial societies have on environment on the local, regional and global levels ? 5
- (b) What is meant by biological structure of a community ? Write a sentence each of keystone species, species richness and evenness. 2+3

Or

- (a) State GAIA hypothesis. Why is it considered as revolutionary ? 2
- (b) In what ways has human population growth affected biodiversity, forests and land surface of earth and air quality ? 8