

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

**Term-End Examination**

01406

**June, 2016**

**MED-001 : UNDERSTANDING THE ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

**Note : All questions are compulsory.**

1. Answer any **five** of the following : **5×2=10**
- (a) List different types of rocks based on their formation.
  - (b) What do you understand by relative humidity ?
  - (c) What is Coriolis effect ?
  - (d) What is the importance of aeration in soil ?
  - (e) Explain the importance of latent heat of fusion.
  - (f) Give any four characteristics of Savannas.

2. Attempt any *two* of the following :

- (a) What are estuaries ? Describe different types of estuaries based on salinity.  $2+3=5$
- (b) What is meant by holozoic nutrition ? Describe various processes involved in holozoic nutrition.  $1+4=5$
- (c) Describe zonation in lakes. Enlist different zones of vegetation in littoral zone with two examples of each.  $2+3=5$

3. (a) What are ecological pyramids ? Explain and draw different types of pyramids, and give examples.  $2+3=5$
- (b) What are mangroves ? Describe the significant adaptive features of mangroves. 5

**OR**

- (a) Define the following :  $5 \times 1 = 5$
- (i) GPP
  - (ii) NPP
  - (iii) NCP
  - (iv) SP
  - (v) Standing crop biomass
- (b) Illustrate and describe the positive and negative feedback in an ecosystem. 5

4. Attempt any *two* of the following :

- (a) Depict a well-labelled schematic representation of Nitrogen cycle. 5

- (b) (i) Differentiate between J-shaped and Logistic growth curves. 3
- (ii) What are the two components of species diversity? 1
- (iii) Differentiate between ecotone and edge. 1
- (c) (i) Describe two types of overpopulation. 2
- (ii) Explain the impact of population growth on land, climate and biodiversity. 3

5. Attempt any *two* of the following :

- (a) (i) Explain Interference and Exploitative Competition. 2
- (ii) Describe two principles associated with competition. 2
- (iii) Differentiate between ecological and crude density. 1
- (b) (i) Define eutrophication. 1
- (ii) Differentiate between acute and chronic effects of air pollution on human health. 2
- (iii) Differentiate between photochemical and industrial smog. 2
- (c) (i) Enlist the various causes of environmental degradation. 3
- (ii) Give any two measures of waste management. 2