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**MED-001** 

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

### **Term-End Examination**

#### June, 2012

## MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 hours			Maximum Marks : 50	
Note : All questions are compulsory.				
1.	Answer <i>any five</i> of the following : 2x5=10			
	(a)	List the four main compone	ents of soils.	
	(b)	What is the importance of	soil air?	
	(c)	List any 4 major physical p	roperties of so	oil.
	(d)	What are aerosols?		
	(e)	List 4 stratas in the atmos upwards from the ground.	-	go
	(f)	What do you understand by the term 'albedo'?		
2.	Attempt <i>any two</i> of the following : 5x2		5x2=10	
	(a)	Describe the thermal stratification in a lentic habitat.		
	(b)	What are tsunamis? How are they created?		
	(c)	What is acid rain? Describe its formation and effects.		

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- 3. (a) (i) What do you understand by holozoic nutrition? Describe any three processes involved in this mode of acquiring energy.
  - (ii) A particular biome looks similar to 2 another in quite distant location in terms of architecture (physical structure). How does this similarity arise ?

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#### OR

- (b) (i) Describe briefly the distribution and 5 vegetation of tropical rain forests
  - (ii) Describe briefly the consequences of 5 human activities in tropical rain forests.
- 4. Attempt *any two* :
  - (a) (i) What do you understand by the term **1** 'trophic level' in an ecosystem ?
    - (ii) What are the two kinds of food chains 4 in an ecosystem? How do they differ ?
  - (b) The flow of energy in an ecosystem is 5 unidirectional. Explain this statement with the help of suitable diagram.
  - (c) List 4 main factors that affect population 5 size. Draw the three typical dispersion patterns observed in animals.

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- 5. Attempt any two :
  - (a) What are the various causes of soil 5 erosion ? Describe its adverse effects
  - (b) What are the factors that promote rapid 5 cycling of nutrients in tropical forests ?

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(c) What are the factors that have led to the rapid population growth in India ? Why is it important to contain this population growth ?

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