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MED-001

POST GRADUATE DIPLOMA IN ENVIRONMENT AND SUSTAINABLE DEVELOPMENT (PGDESD)

Term-End Examination June, 2010

MED-001 : UNDERSTANDING THE ENVIRONMENT

Time : 2 hours Maximum Marks : 50 Note : All questions are compulsory.		
1.	Ans	wer <i>any five</i> of the following : 5x2=1
	(a)	Write the names of the different strata of the atmosphere.
	(b)	Name two sources of radiation pollution.
	(c)	Enlarge the abbreviations (<i>any two</i>) :
		(i) PAN
		(ii) IPCC
		(iii) SPM
	(d)	Name the three main eras of the Geological
		Time Scale. Which of these is the most recent ?
	(e)	Name two plants and two animals that occur in the polar regions.
	(f)	What is the difference between atmospheric and biological nitrification.

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- 2. Answer *any two* of the following : 2x5=10
 - (a) What are the main categories of soil organisms ? How do these effect soil fertility ?
 - (b) Explain what is pycnocline and thermocline.
 - (c) What is meant by "primitive atmosphere" ? Name four important gases present in it. Did it support life ? Explain your answer.
- 3. How are organisms grouped according to 10 principal sources of carbon and energy ?

OR

- (a) Distinguish between holozoic and 5 saprophytic nutrition.
- (b) Describe the main characteristics that 5 distinguish viruses from bacteria.
- 4. (a) The pyramid of biomass can be erect or 3+2 inverted. Explain why? The pyramid of energy is always erect. Why?
 - (b) Why is the phosphorus cycle classified as 'Sedimentary'? Draw the cycle. Explain how phosphorus becomes a pollutant.
 OR 1+2¹/₂+1¹/₂

Define a biome. What governs the distribution of different biomes on the Earth ? Why is it important to prioritise conservation of the tropical terrain ? 1+2+2+5

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5. What are the various parameters that are tested to ensure the quality of water ? Are these levels high or low in polluted waters ? Explain the ill effects of oil spills.
5+2+3

OR

3

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