P.T.O.

ET-531(A)

## B.Tech. Civil (Water Resources Engineering)

## Term-End Examination June, 2012

## ET-531(A): EARTH & ITS ENVIRONMENT

Time: 3 hours		ours Maximum Marks	Maximum Marks: 70	
Note: Answer any five questions. Give neat, well-labelled sketches where necessary.				
1.	(a)	Outline the structure of the atmosphere that envelopes Earth, giving a neat sketch.	7	
	(b)	Discuss what is understood by lithosphere and hydrosphere.	7	
2.	(a)	Discuss and compare mechanical and chemical weathering.	7	
	(b)	Explain the process of erosion denudation and regeneration. Give examples.	7	
3.	(a)	What is an earthquake? Discuss its various types. How do they provide us information about the interior of Earth?	9	
	(b)	Explain how do we record an earthquake, and what is Richter's scale?	5	

4. (a) Give an isometric view of a glaciated 10 U-shaped valley. Incorporate hanging and tributary valleys in the view. Discuss its main features. State and explain the five laws of radiation (b) 4 in respect of heat balance on earth. 5. (a) Discuss the various structures as observed 7 in igneous rocks, and detail out their respective textures. (b) Explain foliation, lineation and cleavage of 7 rocks. 6. Discuss in detail the fold-classification as found 14 in rock formations. 7. Detail out what you understand by: (a) 7 population ecology (i) (ii) poperties of population; (iii) regulation of population; (iv) functions of population Discuss- tundra biome; desert biome; (b) 7 and grass-land biome. Write short notes on any four of the following: 8. Core of earth (a) 3.5x4=14(b) Quartz group of rocks (c) Geological time-scale (d) Motion of planets (e) Magna and Lava