No. of Printed Pages : 3

ET-531(A)

## B.Tech. Civil (Water Resources Engineering) BTCLEVI / BTMEVI / BTELVI / BTECVI / BTCSVI Term-End Examination

December, 2016

00392

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

Time: 3 hours

Maximum Marks : 70

7

7

- Note: Answer any five questions. All questions carry equal marks. Give neat, well-labelled sketches wherever necessary.
- (a) Explain the 'Hydrologic Cycle' with the help of a neat sketch. What role does it play in geological processes ?
  - (b) Describe the important types of slow and rapid mass movement in respect of weathering.

2.	(a)	Explain	the	causes	of	earthquakes.		
		Different	iate be	etween P,	S an	d L waves.	7	
	<b>(b)</b>	Discuss the major forces acting upon the air.					7	
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3.	(a)	Describe the hydrological classification of rocks.	7
	(b)	Define form or habit of minerals. Describ form depending upon the degree of	e of
		crystallisation.	7
<b>4</b> .	(a)	What do you mean by Metamorphic Rocks	
		Discuss the processes of metamorphism.	7
	(b)	Define cleavage. Explain its significance.	7
5.	(a)	Describe the three principles of	-
		stratigraphy.	7
	(b)	What is meant by biogeochemical cycles	?
		Explain the carbon cycle with the help of	a
		neat sketch.	7
6.	(a)	Define population with respect to ecology	
	•	Explain the various properties which are	•
		the characteristics of each population.	7
	(b)	Explain the life zones in oceans with th	e
		help of a neat diagram.	7
7.	(a)	Explain how volcanic eruptions can damage	•
		an ecosystem.	7
	(b)	What are the features of wastelands	?
		Explain the various activities that can b	e
		initiated at wastelands.	.7
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8. Differentiate between the following :

 $4 \times 3\frac{1}{2} = 14$ 

- (a) Weather and Climate
- (b) Extrusive and Intrusive Igneous Rocks
- (c) Anticline and Syncline
- (d) Joint and Fracture