

**B.Tech. CIVIL (WATER RESOURCES
ENGINEERING)**

BTCLEVI/BTMEVI/BTELVI/BTECVI/BTCSVI

Term-End Examination

December, 2013

ET-531(A) : EARTH & ITS ENVIRONMENT

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks. Give neat, well - labelled sketches where necessary.

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1. (a) Human life and other life-forms, as on to-day, have evolved after a long interaction of many factors - Explain with suitable examples. 10
 - (b) Explain eco-logical instability. With suitable examples. 4
 2. (a) How does terrestrial system respond to the incoming energy from sun ? Explain. 6
 - (b) Write an essay on environmental pollution specifying its causes and remedies thereof. 8
 3. (a) What is biomass ? How does it influence life on earth ? Substantiate your answer with examples. 5

- (b) Draw the definition sketch of various zones that surround Earth, beginning from its core, and upto ionosphere. 9
4. (a) Explain the formation of igneous, sedimentary and metamorphic rocks. Also discuss their occurrences. 10
- (b) Discuss the following : 4
- (i) Faults and their classification
- (ii) Relevance of structural geology
5. (a) What is meant by geological time-scale ? 7
- (b) Discuss the rock formation of peninsular India. 7
6. (a) What are the causes of earthquakes ? Explain Richter's scale of extent of earthquakes. 8
- (b) How are mountains formed ? 3
- (c) Why are Himalayas considered as the youngest mountain system of our subcontinent ? 3
7. Write short notes on *any four* of the following : 14
- (a) Monsoon
- (b) Texture of rocks
- (c) Air-mass systems
- (d) Influence of latitude on the weather and temperature variation of a place.
- (e) Variation of temperature as he proceed from the earth's surface to ionosphere.