

**B.Tech. CIVIL (WATER RESOURCES  
ENGINEERING)  
BTCLEVI/BTMEVI/BTELVI/BTECVI/BTCSVI**

**Term-End Examination**

**June, 2013**

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

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. All questions carry equal marks. Good quality well labelled diagrammes shall have additional weightage.*

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|----|-----|---|---|
| 1. | (a) | Discuss different kinds of fractures.   | 5 |
|    | (b) | Discuss the Plane, Axis and centre of symmetry.                               | 5 |
|    | (c) | What do you understand by general characterization of Rock forming minerals ? | 4 |
| 2. | (a) | What are various types of textures present in igneous rock ? Explain.         | 6 |
|    | (b) | Explain the following :   | 8 |
|    |     | (i) Well sorted sedimentary rocks   |   |
|    |     | (ii) Hydrodynamic fabric  |   |
|    |     | (iii) Exogenic texture  |   |
|    |     | (iv) Detrital rocks   |   |

3. (a) Discuss the factors that control the behaviour of materials. 7
- (b) What do you understand by folds and faults? How the movement along faults take place? Explain. 7
4. (a) Explain different types of drainage patterns and the major types of the structures that control them. 7
- (b) What are the Deccan intertrappean beds? Why Lameta Beds are called the intertrappean beds? 7
5. (a) Differentiate among the dendritic, trellised and radial drainage patterns. 6
- (b) What do you understand by Glaciated U-shaped valley? Draw its well labelled diagram. 8
6. (a) What is regolith? What are man movements? 7
- (b) State the important types of slow and rapid man movements. 7
7. (a) Explain the Global Energy Balance. 7
- (b) Explain the vertical movement of air to give condensation effect. 7

8. (a) How rains occur in India ? 3.5
- (b) Describe Biome. 3.5
- (c) Why should we conserve the wet lands ? 3.5
- (d) What do you understand by carbon credits ? 3.5
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