

**B.Tech. CIVIL ENGINEERING (BTCLEVI)**

**Term-End Examination**

**June, 2015**

00386

**BICE-003 : ENGINEERING GEOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Answer any seven questions. All questions carry equal marks.*

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1. Describe briefly the structure of the atmosphere around the Earth. Explain its significance on the life systems existing on this planet. 10
2. Write an essay on "Weathering of Rocks" and its significance in engineering construction. 10
3. Explain, with the help of neat sketches, principal types of faults as recognised on the basis of mode of occurrence. 10
4. Discuss, with neat diagrams, various types of valleys and their origin. Give suitable examples. 10
5. Explain, with the help of neat sketches, important textures of igneous rocks and also the possible causes for their formation. 10

6. What are Sedimentary Rocks ? Give an account of their formation, textures and structures, illustrating your answer with sketches where necessary. 10
7. Describe the Vindhyan system of Indian stratigraphy in its essential details. 10
8. Discuss the objects and general methods of geological investigations for major engineering projects. 10
9. Give a general account of geological characters that have to be known for location of a dam. How do these characteristics influence the choice of the type of dam to be constructed ? 10
10. Write short notes on any *two* of the following : 2×5=10
- (a) Fossils
  - (b) Pisolitic Structure
  - (c) Types of Textures
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