

B.TECH. IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2013

BICE-003 : ENGINEERING GEOLOGY

Time : 3 hours

Maximum Marks : 70

Note : Attempt *any five* questions.

1. (a) Explain briefly the geological works of rivers. 7
- (b) What is river meandering? Explain in detail its formation and important features. 7
2. (a) Discuss briefly the various methods of finding age of the earth. 7
- (b) What do you understand by the term plate tectonics? Explain in detail its important role during the earthquakes. 7
3. (a) Explain cleavage, hardness and streak for minerals with two examples. 7
- (b) Write important rock forming minerals. Explain with at least two examples. 7

4. (a) What are the various effects of unconformity and joints in rocks ? 7
- (b) What are faults and discuss the classification of faults with neat sketches. 7
5. (a) Describe geological time scale and principle of correlation. 7
- (b) What is the economic importance of any two groups of systems of stratigraphy of India ? 7
6. (a) Explain the geological characters that have to be known for location of a DAM. How these characteristics influence the choice of the type of DAM to be constructed ? 7
- (b) Discuss critically role of geological conditions that influence the design of a tunnel. 7
7. Write short notes on *any two* of the following :
- (a) Stratification, dip and strike. 7
- (b) Different types of folds with neat sketches 7
- (c) Igneous and Sedimentary Rocks. 7
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