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B.TECH IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2011

BICE-003 : B.TECH

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions.

All questions carry equal marks.

1. (a) What is an earthquake ? What is the method of determination of magnitude and energy of an earthquake ? Discuss. 7
- (b) Discuss the importance of geology in the construction of Bridges. 7

2. (a) What do you mean by "Rock forming minerals" ? What are the three important groups of rock forming minerals ? 7
- (b) What do you understand by the age of the earth? Discuss briefly the new methods used to find its age. 7

3. (a) Enlist the important Igneous rocks. 7
- (b) Define - Stratification, Dip, Strike, Folds, Faults, Limbs, Plunge. 7

4. (a) What are the various groups/Era of Geological Time Scale ? 7
(b) Write down classification of metamorphic rocks (with examples). 7
5. (a) Discuss the geological work of river as a "Hydraulic Action." 7
(b) Describe the term "Stratigraphy" in detail. 7
6. (a) What do you understand by Primary and Secondary structure of Rock ? 7
(b) State and explain the elements of a crystal. 7
7. Write short notes on any *two* :
- (a) Mantle 7
(b) Magma 7
(c) Unconformity 7
(d) Minerals formed due to Recrystallisation. 7
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