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**B.TECH. IN CIVIL ENGINEERING (BTCLEVI)**

**Term-End Examination**

**June, 2014**

**BICE-003 : ENGINEERING GEOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. All questions carry equal marks.*

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1. Write the different theories of origin of planetary system. Discuss in detail about the Nebular and Schmidt's hypothesis. **14**
2. Define the Crystal and Crystallography. Discuss the elements of symmetry with sketches. **14**
3. Differentiate among an igneous rock, a sedimentary rock and a metamorphic rock on the basis of structure with suitable sketches and examples of each type. **14**
4. Define the following terms : **7x2=14**
  - (a) Dip
  - (b) Strike
  - (c) Folds
  - (d) Hanging Wall
  - (e) Gouge
  - (f) Fault Breccia
  - (g) Horst

5. (a) Give a general account of geological characters that have to be known for location of a Dam. 7
- (b) What are the general geological characteristics of the area that must be known before a tunnel project is decided in that area ? Explain briefly. 7
6. Write a note on **any two** of the following with neat sketches : 2x7=14
- (a) Internal structural of the earth
- (b) Classification of folds
- (c) Normal faults
7. Explain **any two** of the following in (100 - 125) words : 2x7=14
- (a) The silicate group
- (b) Core
- (c) Angular Unconformity
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