

01113

B.TECH. IN CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2012

BICE-003 : ENGINEERING GEOLOGY

Time : 3 Hours

Maximum Marks : 70

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

1. Explain briefly the Geological work of rivers giving 10
examples of topographical features of great
importance developed due to river erosion and
river deposition.

2. (a) Explain briefly, the mode of formation of 6
Sedimentary Rocks in nature.
(b) What are current- bedding, lamination and 4
torrential bedding ?

3. Briefly mention salient features and properties of 10
the following groups of minerals :
(a) Amphibole Group
(b) Mica Group

4. Explain in detail the account of Geological work done by : 10
(a) Wind and (b) Running water
5. Briefly explain with neat sketches : 10
(a) Dip and strike
(b) Tectonic mountain
6. Explain in detail the different physiographic divisions of India, pointing out their characteristic features. 10
7. What are the important geological characteristics of the area that must be known before a tunnel project is decided in that area ? 10
8. Explain briefly the requisite qualities of the DAM site to ensure the stability of a Gravity Dam. 10
9. What is stratigraphy ? Explain in detail the principles of stratigraphic correlation. 10
10. Write short notes on **any two** of the following : $2 \times 5 = 10$
(a) Minerals formed due to recrystallisation
(b) Overturned fold
(c) The age of Deccan traps.
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