

00394 B.TECH. IN CIVIL ENGINEERING (BTCLEVI)
Term-End Examination
June, 2013

BICE-003 : ENGINEERING GEOLOGY

Time : 3 Hours

Maximum Marks : 70

Note : Attempt *any five* questions.

1. (a) Write a note on " Age and Internal Structure of Earth." 7
(b) What do you understand by the term weathering ? Explain the factors affecting weathering. 7
2. (a) Explain the causes and effects of earthquake in short. 7
(b) Explain in brief the geological works of the wind. 7
3. (a) Explain important physical properties of minerals that are commonly studied for their identification. 7
(b) Define a crystal, crystal symmetry and cryсталlographic system. 7

4. (a) Metamorphism is basically a process of changes in the pre-existing rocks and not a process of formation of new rocks. Discuss the statement critically and draw your conclusions. 7
- (b) Describe the composition and formation of limestone, shale and dolomite. 7
5. (a) Explain the following terms stratification, Dip and Strike, with neat sketches. 7
- (b) Describe the various causes of faulting of rocks. 7
6. (a) What is the importance of Geological investigation in the construction of dams and tunnels ? 7
- (b) Describe the Vindhyan system of Indian stratigraphy in details. 7
7. Write short notes on *any two* of the followings :
- (a) Formation of Igneous rock with example 7
- (b) Engineering Properties of Rocks 7
- (c) Various groups of geological time scale 7
-