

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00563

June, 2018

BICE-003 : ENGINEERING GEOLOGY

Time : 3 hours

Maximum Marks : 70

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

1. (a) Write a detailed note on the origin of planet Earth. 7
- (b) Describe the weathering of rocks by air and water. 7
2. (a) What causes earthquakes ? Explain in detail. 7
- (b) Discuss different physical properties of minerals. 7
3. (a) Discuss the crystallographic systems in detail. 7
- (b) What is a mineral ? List the important rock forming minerals. 7

4. Describe the igneous, sedimentary and metamorphic rocks in terms of composition, structure and classification. 14
5. (a) Describe the structural features of rocks. 8
- (b) Explain the following terms :
Stratification, Dip, Strike, Fold. 6
6. (a) Describe the stratigraphy of India on a geologic time scale. 7
- (b) Describe the important characteristics of the Deccan Traps of India. 7
7. Explain, briefly, the geological conditions that must be known before deciding the location of the following : 7+7=14
- (a) Dam
- (b) Tunnel
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