

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00483

December, 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 internal structure of Earth. 7
- (b) What is Weathering ? Describe the weathering on rocks by the action of rivers and seas. 7
2. (a) Explain the process of volcanic eruption and its resulting actions on the geology of a place. 7
- (b) Discuss different chemical properties of minerals. 7
3. (a) Discuss elements of symmetry with the help of neat sketches. 7
- (b) Differentiate between sedimentary and metamorphic rocks. 7

4. (a) Differentiate between holohedral and hemihedral forms with the help of neat sketches. 7
- (b) What do you understand by folds and faults? What causes them? 7
5. (a) Describe different types and causes of unconformity and joints. 8
- (b) Explain the following terms : 6
Crystal, Rock, Strike line.
6. (a) Discuss the economic importance of the study of stratigraphy of India. 7
- (b) Write a detailed note on different systems of stratigraphy of India. 7
7. (a) What geological characteristics must be known before selecting the location of bridges? Explain briefly. 7
- (b) Write a short note on the engineering properties of rocks. 7
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