

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00655

June, 2019

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 Earth. 7
- (b) Describe the geological work of wind and water. 7
2. (a) What causes volcanic eruptions ? Explain in detail. 7
- (b) Describe different crystallographic systems in detail. 7
3. Describe various physical and chemical properties of minerals. 14
4. (a) Why is a descriptive study of rocks necessary ? Explain in detail. 7
- (b) List various structural features of rocks. 7

5. (a) What do you understand by faulting of rocks ? Describe faults in terms of classification and terminology. 8
- (b) What are various types of unconformities and their causes ? 6
6. (a) Describe different systems of stratigraphy of India. 7
- (b) Describe the importance of geology in the construction of tunnels. 7
7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Metamorphic Rocks
- (b) Minerals
- (c) Petrology
- (d) Crystallography
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