

**B.Tech. CIVIL ENGINEERING (BTCLEVI)****Term-End Examination****December, 2015****BICE-003 : ENGINEERING GEOLOGY***Time : 3 hours**Maximum Marks : 70*

---

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

---

1. What is commonly understood by the term Age of the Earth ? Write a brief account of the historical development of scientific studies on this problem. 10
2. Give a detailed account of Erosive work of Rivers elucidating the principles and important features of river erosion. 10
3. Describe with the help of neat sketches, various parts of faults as understood in structural geology. 10
4. Define a crystal, crystal symmetry, crystal form and a crystallographic system. Explain, in a tabular form, the salient features of crystallographic systems. 10

5. Explain the various forms in which igneous rock masses occur in nature. Illustrate your answer with neat sketches. 10
6. Describe various types of textures and structures developed in the rocks due to metamorphic processes. 10
7. Describe the important characters of Deccan Traps of India. What is the stratigraphical significance of inter-trappean beds? 10
8. Explain the various types of reservoirs and geological conditions necessary for their proper location. 10
9. Discuss critically the role of geological conditions that influence the design, cost and stability of a traffic tunnel. 10
10. Describe the salient features of any *two* of the following : 2×5=10
- (a) Gravity Dam
  - (b) Arch Dam
  - (c) Earth Dam
-