

BTS (C) 059 (H)

**B.Tech Degree IV Semester Examination
November 2002**

**CE 404 ENGINEERING GEOLOGY
(1998 Admissions)**

Time : 3 Hours

Maximum Marks 100

(All Questions carry EQUAL marks)

- I. Describe the types, causes and effects of earthquakes and discuss their monitoring and prediction. Add a note on the features of earthquake-resistant structures.
OR
- II. Describe the geological action of streams and related geomorphic features.
- III. Give an account of the important physical properties used in the identification of minerals and list the megascopic characters of any five important minerals.
OR
- IV. Describe the feldspar and pyroxene groups of minerals.
- V. Describe the forms of igneous rocks. Discuss how igneous rocks are classified.
OR
- VI. Give an account of the engineering properties of rocks with suitable examples from common rocks.
- VII. Classify and describe joints. Write a note on the significance of joints in Engineering geology and Hydrogeology.
OR
- VIII. Give the nomenclature of various geometric elements of folds and describe how they are used in classification of folds. Discuss how folds are recognized in the field.
- IX. Describe the techniques of groundwater exploration.
OR
- X. Briefly describe the stratigraphy of India highlighting the age and occurrence of major economic and building-stone deposits of India.

