

B. Tech Degree IV Semester Examination April 2011

CE 404 (A/B) ENGINEERING GEOLOGY (2002 Scheme)

Time : 3 Hours

Maximum Marks : 100

(All questions carry equal marks)

I. Describe the causes and effects of earthquakes.

OR

II. Write short notes on:

- (i) River Meandering
- (ii) Ventifacts
- (iii) Trellis Drainage
- (iv) Barrier Reefs

III. Give the chemical composition and physical properties of the following minerals:

- (i) Quartz
- (ii) Felspar
- (iii) Muscovite
- (iv) Garnet

OR

IV. Describe the structures, textural features and classification of sedimentary rocks.

V. Define dip and strike. Discuss the importance of dip and strike of a rock formation in engineering constructions.

OR

VI. With neat sketches, briefly explain the following :

- (i) Anticline
- (ii) Recumbent folding
- (iii) Gravity Faults
- (iv) Reverse Faults

VII. What are the various geological considerations in deciding tunnel alignments?

OR

VIII. What are the different criteria used in the site selection for the construction of dams and reservoirs?

IX. Give a brief account of the geological succession of Peninsular India.

OR

X. Describe the occurrence and distribution of following ore deposits and industrial minerals in India

- (i) Diamond
- (ii) Illemnite
- (iii) Petroleum
- (iv) Coal
