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53 (CE 305) ENGE

2014

## ENGINEERING GEOLOGY

Paper : CE 305

Full Marks : 100

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

**Answer any five questions.**

1. (a) Differentiate rocks according to their texture and structure. 10
- (b) Describe the interior of the earth with neat sketch. 10
2. (a) Define crystallography and mineralogy. 10
- (b) Describe the different methods used for exploration of ground water. 10
3. (a) What is geophysical explorations ? Discuss in brief. 10

Contd.

- (b) Discuss the process of formation of economic mineral deposit. 10
4. (a) What do you understand by the term river erosion ? State the principles and important features of river erosion. 10
- (b) Describe in brief the various tests for rocks which are generally performed in laboratory. 10
5. (a) What are the different causes of an earthquake ? How the recording of earthquake is done ? 10
- (b) Define the following terms with respect to earthquake. 10
- (i) P waves
- (ii) S waves
- (iii) L waves
6. (a) What is a landslide ? Discuss the various types of landslides. 10
- (b) What are faults ? Give an outline of classification of faults. 10

7. Write short notes on : *(any four)* 20

- (i) folds
- (ii) strike and dip
- (iii) formation of coal
- (iv) dome and basin
- (v) aquifuge
- (vi) epicentre.

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