

No. of Printed Pages : 03

Roll No. ....

**D-74**

**B. Tech. EXAMINATION, May 2017**

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(CE)

CE-208-B

ENGINEERING GEOLOGY

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit.

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**P.T.O.**

### Unit I

1. (a) Explain briefly the importance of geological investigation in construction projects. 7
- (b) Explain the following terms :
  - (i) Weathering of rocks
  - (ii) Geological work of wind. 4+4
2. (a) What are igneous rocks ? How are they formed in nature ? 7
- (b) Explain the difference between : 4+4
  - (i) Colour and lustre
  - (ii) Hardness and tenacity.

### Unit II

3. (a) Explain any *two* of the following terms :
  - (i) dip and strike
  - (ii) stratification
  - (iii) causes of fold. 8
- (b) Add a note on the causes of folding. 7

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4. Describe, with the help of neat sketches, various parts of faults and their causes as understood in structural geology ? 15

### Unit III

5. Define GIS. List out various components of GIS. Discuss the role of GIS in Geology. 3+3+9
6. Give a broad account of geological conditions necessary for the proper location of a Dam. 15

### Unit IV

7. Write short notes on the following : 5+5+5
  - (a) Epicentre
  - (b) Seismogram
  - (c) Richter magnitude.
8. (a) Give a brief account of measures commonly adopted to combat the land-slides. 9
- (b) Define subsidence. What are the causes commonly responsible for subsidence ? 6

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