

Code: CE3T4

**II B.Tech - I Semester–Regular/Supplementary Examinations –  
November 2017**

**ENGINEERING GEOLOGY  
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1. a) Write about importance of geology.
- b) Define luster.
- c) Write short notes on granite.
- d) Briefly explain the properties of talc.
- e) Write short notes on importance of study of ground water.
- f) Describe the classification of magnetic method.
- g) List out the various types of dams.
- h) Write the importance of geology for construction of reservoirs.
- i) What are the effects of tunneling?
- j) Explain the terms Strike and Dip.
- k) Briefly explain ground water exploration.

## PART – B

Answer any **THREE** questions. All questions carry equal marks. 3 x 16 = 48 M

2. a) Give some failure of dams and explain. 8 M

b) List out the physical properties of minerals. Explain the properties of Quartz, Magnetite, Bauxite. 8 M

3. a) Define Rock. Explain in detail about sedimentary rock. 8 M

b) What are the different types of folds explain with diagrams. 8 M

4. a) What are the precautions to be taken for building construction in seismic areas. 8 M

b) Importance of study of earthquakes and Landslides. 8 M

5. a) Describe the classification of geophysical methods of electrical, seismic methods with their importance of geological considerations. 8 M

b) Explain the principles in importance of seismic refraction method in civil engineering construction. 8 M

6. a) Analysis of dam failures of the past. 8 M

b) Define the term tunnel and give purpose of tunneling. 8 M