

III B. Tech I Semester Supplementary Examinations, May – 2016
ENGINEERING GEOLOGY
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | |
|---|---|------|
| 1 | a) Define the term of weathering. | [3M] |
| | b) Describe the physical properties of minerals Streak. | [4M] |
| | c) Write short notes on Recumbent fold. | [4M] |
| | d) Define the term Ground water and cone of depression. | [3M] |
| | e) Explain the Geophysical Gravity method. | [4M] |
| | f) What are tunnels? | [4M] |

PART -B

- | | | |
|---|--|-------|
| 2 | a) Discuss the importance of Geology in the field of Civil Engineering? | [8M] |
| | b) What are the types of geological agents? Describe briefly the natural agencies. | [8M] |
| 3 | a) Describe the physical properties of minerals (i) Asbestos and (ii) Hematite. | [8M] |
| | b) How do you distinguish mineral from a rock? What are the major difference dykes and sills? | [8M] |
| 4 | a) What is fold? Describe the parts of fold. Attempt the classification of folds in brief. Discuss the important of fold in the field of civil engineering. | [10M] |
| | b) Define unconformity, explain deferent types of unconformities. | [6M] |
| 5 | a) Define the terms porosity and permeability. Explain the classification of rocks based on porosity and permeability, and importance of rock types for groundwater point of view. | [8M] |
| | b) Explain the classification, effects, causes and intensity of earthquakes and give their preventive manures for construction of building in earthquake prone areas. | [8M] |
| 6 | a) Write an essay on the electrical method of exploration. | [10M] |
| | b) Write short note on importance of Geophysical Methods. | [6M] |
| 7 | a) Define dam. How do classify them? Analyse dam failures in past. How do you select a site to construct a dam? Explain? | [8M] |
| | b) Define the term tunnel and give purposes of tunneling. Discuss in detail about the role of Geological consideration for proper tunneling. | [8M] |