

Code No: RT31014

R13**SET - 1****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 compulsory3. 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. [10M]
- Discuss the important of fold in the field of civil engineering.
- 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]

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