

TCE-404**73**

Printed Pages : 2

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

--	--	--	--	--	--	--	--	--	--

B.TECH. (CE) (SEM-IV)**Even Semester Examination 2015****ENGINEERING GEOLOGY***Time : 2 Hrs.**Max. Marks :50***Note:** Attempt all questions. Each question carry equal marks.

Q1. Attempt any two of the following: 7×2

- (a) How is geology related to civil engineering ?Discuss the scope and application of the geological knowledge in planning and execution of civil engineering project.
- (b) What is mineral? Give reasons why coal cannot be called a mineral .Name and write in short physical properties use to identify rock forming minerals
- (c) what are the factors affecting for selection for building stone as engineering material.

Q2. Attempt any two of the following: 6x2

- (a) What is rock? Give a classification of rocks. Write in short their mode of formation.
- (b) Explain the term intensity and magnitude of earthquakes. Give examples of earthquakes of high magnitude.

- (c) What is the engineering properties of rocks?
Describe any one in detail.

Q3. Attempt any two of the following: 6X2

- (a) Define tsunamis? Give a detailed account of origin of tectonic earthquakes and their distribution on globe.
- (b) Define the terms 'dip' and 'strike' of a bed .So with the help of sketches
- (c) Give a general account of geological characters that have to be known for location of a dam. How these characteristics influence the choice of the type of dam to be constructed?

Q4. Attempt any two of the following: 6X2

- (a) Describe geological investigations of tunnel site and their site selection governing factors.
- (b) Describe the Igneous, Sedimentary and Metamorphic rock with Examples
- (c) Explain :
- (i) Aquiclude
 - (ii) Aquifuge
 - (iii) Aquitard
 - (iv) Unconfined Aquifer
 - (v) Confined Aquifer

— x —