

TCE-404

52 Printed Pages : 2

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

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Uttarakhand Technical University

B. Tech (IV Sem.) Examination-2013-14

ENGINEERING GEOLOGY

*Time : 3 Hrs.**Max. Marks :50*

- Note: (i) Attempt ALL questions.  
(ii) All questions carry Equal marks.  
(iii) Be Precise in your answer.

1. Explain any four out of the following. (4×2.5=10)

- a) Lamination
- b) Outcrop
- c) Tension joint
- d) Shear joint
- e) Dip

2. Explain any four out of the following. (4×2.5=10)

- a) Fracture
- b) Earthquake
- c) folds
- d) Streak
- e) overlap

3. Attempt any two out of the following. (2×5=10)
- a) What is the scope of engineering geology in construction jobs?
  - b) What is specific gravity? How it is determined.
  - c) Describe the forms of igneous rocks?
4. Attempt any two out of the following. (2×5=10)
- a) What are joints? Describe different types of joints.
  - b) What do you understand by minerals? What are the various properties of minerals?
  - c) Explain different types of fault.
5. Attempt any two out of the following. (2×5=10)
- a) Describe the geological investigation for the site selection for the construction of tunnel.
  - b) Explain-
    - i. Aquiclude
    - ii. Aquifuge
    - iii. Aquitard
    - iv. Unconfined Aquifer
    - v. Confined Aquifer
  - c) Describe the Igneous, Sedimentary and Metamorphic rocks with examples.