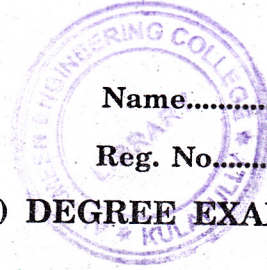


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Name.....

Reg. No.....

**THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION  
OCTOBER 2012**

Civil Engineering

CE 09 306 / PTCE 09 305—ENGINEERING GEOLOGY

(2009 Admissions)

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer all questions.*

- I. 1 Surfaces of erosion or non deposition are called \_\_\_\_\_.
- 2 Earth quakes induced by human activity are known as \_\_\_\_\_.
- 3 A mineral exhibiting magnetic property \_\_\_\_\_.
- 4 The strata in which the older sequence of rocks in the core and are arched downwards.
- 5 A photograph taken with the optical axis of the camera pointing vertically downwards.

(5 × 2 = 10 marks)

**Part B**

*Answer any four questions.*

- II. 1 Elastic rebound theory.
- 2 Types of volcanoes.
- 3 Geological factors in design of building.
- 4 Geographic Information system and its uses.
- 5 Moh's scale of hardness.

(4 × 5 = 20 marks)

**Part C**

- III. (a) What are earthquakes ? Comment on their mechanism and recording.

*Or*

- (b) What are volcanoes ? Describe various stages of volcanic activity and their distribution.

- IV. (a) What are sedimentary rocks ? Comment on their distribution and engineering properties.

*Or*

- (b) Describe the process of metamorphism and various rocks formed. Comment on their varieties.

Turn over



V. (a) Describe various geological structures and their significance in civil engineering projects.

*Or*

(b) Describe electric and electromagnetic method of mineral exploration techniques.

VI. (a) Comment on the basic principles of remote sensing. How they can be used for planning engineering projects.

*Or*

(b) Describe the geological factors concerned in the design of different types of dam.

(4 × 10 = 40 marks)