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Name:

Reg.No.

THIRD SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2010

CE09306PTCE09/305 - ENGINEERING GEOLOGY

Time: Three hours

Maximum: 70 marks

Part - A

I. (Answer all questions)

1. Seismograph
2. Cleavage
3. Soil profile
4. Water table
5. Rasater model

(5 × 2 = 10 marks)

Part - B

II. (Answer any four questions)

1. Circum pacific belt
2. Products of weathering
3. Granite petrography
4. Perched water table
5. Geological factors in design of building

(4 × 5 = 20 marks)

Part - C

III. (Answer section (a) or (b) of each questions)

(a) Comment on the geologic work of glaciers.

OR

(b) Describe building stones of Kerala and their effective utilization.

(1 × 10 = 10 marks)

IV. (a) Geological structures and their significance in civil engineering projects.

OR

(b) What are the distinguishing features of igneous rocks?

(1 × 10 = 10 marks)

V. (a) Describe the origin and occurrence of groundwater. How they are superior to surface water?

OR

(b) Comment on seismic exploration techniques for site investigation in civil engineering projects and for water exploration.

(1 × 10 = 10 marks)

VI. (a) What are volcanoes? Comment on their geological importance, distribution and products.

OR

(b) Explain the basic principles of remote sensing. How they can be used for site investigation of roads, bridges and tunnels.

(1 × 10 = 10 marks)