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Name.....

Reg. No.....

**THIRD SEMESTER B. TECH. (ENGINEERING) DEGREE
EXAMINATION, OCTOBER 2011**

CE 09 306/PTCE 09 305 – ENGINEERING GEOLOGY

(2009 Admissions)

Time : Three Hours

Maximum : 70 marks

Answer all questions.

Part A

- I. 1. Branch of geology dealing with the study of earthquake waves _____.
2. Solid material accumulated at or near the earth's surface in depositional basins _____.
3. Rock texture in which the size of minerals differs widely is known as _____.
4. Name a mineral characterized by cubic crystallization having chemical composition PbS.
5. Water bearing formation within the zone of unsaturation is called _____.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

- II. 1. Mercalli scale.
2. Aquiclude.
3. Antifoam.
4. Barchans.
5. I.R.S. Satellites.

(4 × 5 = 20 marks)

Part C

- III. (a) Describe the types and causes of volcanism. Comment on the product of volcanism.

Or

- (b) What are earthquakes? Comment on the methods of recording and prediction techniques.

- IV. (a) What are the geological characters of building and dimension stones?

Or

- (b) Describe the classification and varieties of sedimentary rocks. Comment on their aquifer properties.

Turn over

V. (a) What are faults? Comment on their classification and engineering significance.

Or

(b) Explain the principle of saline water intrusion in coastal aquifers. Comment on its remedial measures.

VI. (a) Describe the use of remote sensing in civil engineering project in structurally complex terrains.

Or

(b) Describe the geographic information system. How it can be effectively used in processing spatial data?

(4 × 10 = 40 marks)

