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***B.Tech. Degree IV Semester Special Supplementary Examination
September 2014***

**CE 1404 (A/B) ENGINEERING GEOLOGY AND SEISMOLOGY
(2012 Scheme)**

Time : 3 Hours

Maximum Marks : 100

**PART A
(Answer ALL questions)**

(8 x 5 = 40)

- I. (a) Describe scope of geology in civil engineering profession.
- (b) Write a short note on drainage pattern.
- (c) Explain colour of a mineral, its types and associated phenomena.
- (d) Briefly describe the structure of igneous rocks.
- (e) Explain dip and strike.
- (f) Briefly explain the electrical methods of subsurface investigation.
- (g) Give a brief account of internal constitution of earth.
- (h) Discuss the distribution of earthquakes.



PART B

(4 x 15 = 60)

- II. Give an account of the major geological features due to deposition by wind. Briefly account the engineering considerations of these deposits.
- OR**
- III. Give an account of marine erosion, deposition and shore control problems.
- IV. Write chemical composition, physical properties and uses of the following minerals.
 - (i) Quartz
 - (ii) Muscovite
 - (iii) Garnet
- OR**
- V. Discuss the various engineering properties of rocks. Also give an example of properties of sandstone.
- VI. Explain the classification of faults. Write a note on their recognition in the field.
- OR**
- VII. How landslides are caused? Give the classification of landslides. How are the landslides controlled.
- VIII. Describe the classes, causes and effect of earthquakes.
- OR**
- IX. Explain in detail tsunami and tsunami velocity.
