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B.E. / B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011
CIVIL ENGINEERING BRANCH
THIRD SEMESTER
AG 291 – ENGINEERING GEOLOGY
(REGULATIONS 2004)

Time: 3 Hrs

Max.Mark: 100

Answer ALL Questions

Part – A (10 × 2 = 20 Marks)

1. What are sea walls?
2. What is delta?
3. Mention any two applications of gypsum
4. Write any two minerals belong to mica group
5. What is sedimentation?
6. What are volcanic rocks?
7. What is seismograph?
8. What are columnar joints?
9. What is grouting?
10. What is passive remote sensing?

Part – B (5 × 16 = 80 Marks)

11. (a) Briefly explain the different types of physical and chemical weathering
12. (a) Briefly explain the physical properties of feldspar group of minerals
(Or)
(b) Briefly explain the physical properties of quartz group of minerals
13. (a) Explain the engineering properties and description of Granite, Shale, Marble and Slate
(Or)
(b) Explain the engineering properties and description of Basalt, Limestone, Breccia and Schist
14. (a) Briefly explain the various types of folds with neat sketches
(Or)
(b) Briefly explain the Wenner method of groundwater prospecting
15. (a) Briefly explain the causes of landslides and the remedial measures
(Or)
(b) Explain in detail about the role of geology on the design and construction of tunnels