

ANNA UNIVERSITY OF TECHNOLOGY, COIMBATORE
B.E. / B.TECH. DEGREE EXAMINATIONS : NOV / DEC 2010

REGULATIONS : 2008

THIRD SEMESTER : CIVIL ENGINEERING

080100009 - APPLIED GEOLOGY

TIME: 3 Hours

Max. Marks : 100

PART A

(20 x 2 = 40 Marks)

ANSWER ALL QUESTIONS

1. Name any four branches of geology.
2. What are the layers earth's interior?
3. What is weathering?
4. Define "Aquifer".
5. What is centre of symmetry?
6. Name two examples for metallic and non metallic minerals.
7. What is ore mineral?
8. Name any two mica group minerals
9. What is igneous rock?
10. What is classic rock?
11. What are the agents of metamorphism?
12. Define "Fossils".
13. What is Attitude of beds?
14. What is the use of Clinometer Compass?
15. Define "joint"
16. Write any two uses of geological maps.

17. What is geological profile?
18. What is silting?
19. What is Spillway of dam?
20. What is an aerial mosaic?

PART – B

(5 x 12 = 60 Marks)

ANSWER ANY FIVE QUESTIONS

21. Describe various geological works of wind.
22. Explain in detail landslide and its engineering importance.
23. Describe in detail, symmetry elements and forms present in the normal class of Isometric system.
24. Explain in detail the various Physical Properties of the minerals.
25. Write the description and occurrence, engineering properties and uses of the following rocks. i. Granite ii. Sandstone iii. Marble.
26. What is a Fault? How are they classified? Explain its engineering significance.
27. Explain in detail the seismic method used in exploring the subsurface.
28. Write in detail the geological condition necessary for construction of dams and reservoirs.

*****THE END*****