

ANNA UNIVERSITY COIMBATORE
B.E/B.TECH.DEGREE EXAMINATIONS: MAY/JUNE 2010
REGULATIONS: 2008
THIRD SEMESTER: CIVIL ENGINEERING
080100009-APPLIED GEOLOGY

Time: 3 Hours

Max.Marks:100

PART-A

(20X2=40MARKS)

ANSWER ALL QUESTIONS

1. What are the internal structures of the earth?
2. Describe the various structures we should care on earth in civil engineering.
3. Write notes on weathering of rock.
4. What are the physical properties of mica?
5. Write the crystallographic character of the normal class hexagonal system.
6. Describe about rock forming minerals and give examples.
7. What is cleavage in minerals? Mention few types of cleavage?
8. How will distinguish three types of rocks?
9. What is pedestal rock? How they are formed?
10. Define the term "metamorphism". Give example.
11. Write the difference between breccias and conglomerates.
12. Write notes on dip and strike.
13. Write the difference between magnitude and intensity of earthquake.
14. What are the uses of sulphide and sulphate group of minerals.
15. What is meant by textures?
16. Write any four examples of mechanically formed sedimentary rocks.
17. Write short notes on "Rock cycle".
18. Describe about wenner's method of electrical resistivity survey.

19. Differentiate confined and unconfined aquifers.

20. How do you classify Dams?

PART-B

(5X12=60MARKS)

ANSWER ANY FIVE QUESTIONS

21. Explain briefly about the various types of weathering of rocks and their features on earth? (12)

22. Discuss in detail about the geological work of rivers? (12)

23. Describe the various physical properties of minerals. Give examples from mineral kingdom for each of the properties? (12)

24. Elaborate on the factors that have been used successfully for the classification of igneous rocks? (12)

25. What are folds? Explain the types of folds with diagrams and their bearing on engineering construction? (12)

26. Explain in detail about the mode of occurrence and the methods for exploration of ground water? (12)

27. Discuss in brief with neat sketch the litho logical and structural conditions required for the construction of different types of dams? (12)

28. Write an essay on "Remote Sensing Techniques"? (12)

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