Reg. No. _

Karunya University

(Karunya Institute of Technology and Sciences)

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – April/May 2011

Subject Title:ENGINEERING GEOLOGYSubject Code:09CE203

Time: 3 hours Maximum Marks: 100

<u>Answer ALL questions</u> <u>PART – A (10 x 1 = 10 MARKS)</u>

- 1. Define Mantle.
- 2. What are the products of weathering?
- 3. Define texture.
- 4. How are sills classified?
- 5. Define magma.
- 6. Define dip joint.
- 7. What is the use of electrical sounding?
- 8. What are the objectives of constructing dams?
- 9. What are the forces acting on a dam?
- 10. Define sandstone.

a.

$\underline{PART - B (5 \times 3 = 15 \text{ MARKS})}$

- 11. Define weathering and explain its types.
- 12. Write short notes on: a. Symmetry b. Crystallographic axis
- 13. Describe briefly the classification of sedimentary rocks.
- 14. Define the term faulting in rocks. Explain the engineering significance of faults.
- 15. Classify different types of joints.

<u>PART – C (5 x 15 = 75 MARKS)</u>

16. Write a note on the mode of occurrence of ground water.

(OR)

- 17. Explain briefly the physical and chemical weathering process.
- 18. Write short notes on Hardness and Lustre of minerals.

(OR)

- 19. Describe the various physical properties of the minerals.
- 20. Describe the properties and use of following rocks:

Granite b. Sandstone c. Marble d. Gneiss

(OR)

- 21. Explain briefly about structure and forms of an igneous rock.
- 22. Explain the electrical method of geophysical survey.

(OR)

- 23. Explain briefly about origin of joints.
- 24. What are landslides? How they are caused? Describe the various types of landslides.

(OR)

25. What are the geological considerations to be taken into account while constructing Tunnels?