**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

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

**Supplementary Examination - June 2011**

**Subject Title: SOFTWARE ENGINEERING Time: 3 hours**

**Subject Code: 09CS205 Maximum Marks: 100**

#### **Answer ALL questions**

**PART – A (10 x 1 = 10 MARKS)**

1. Define Correction.

2. Define Adaption.

3. Define System Modeling.

4. Define Requirements Validation.

5. Define data design.

6. Define Component level Design.

7. List out the Objectives of testing.

8. \_\_\_\_\_\_\_\_\_\_ technique first proposed by Tom McCabe [MCC76].

9. List out the McCalls Quality factors.

10. What is correctness?

**PART – B (5 x 3 = 15 MARKS)**

11. Draw the increment model diagram neatly.

12. What is meant by Assumptions Factor?

13. List out all design principles.

14. List out Object Oriented Testing Strategies.

15. Write down the steps for Statistical Quality Assurance.

**PART – C (5 x 15 = 75 MARKS)**

16. Explain in detail about:

a. Spiral Model b Incremental Model

(OR)

17. How is the cost estimation efficiently used in any software? Explain.

18. What is System Modelling? Explain how it is used in system Engineering.

(OR)

19. Explain Requirement engineering task in detail.

20. Discuss in detail about design concepts with suitable examples.

(OR)

21. How are the architectural designs analyzed? Explain.

22. What is Control Structure testing? Explain.

(OR)

23. Explain in detail about basis path testing with suitable diagrams.

24. List out and explain the software quality concept in detail.

(OR)

25. What is Statistical Software Quality Assurance? Explain with suitable example.