FOURTH SEMESTER M.C.A. DEGREE EXAMINATION
NOVEMBER/DECEMBER 2004

SOFTWARE ENGINEERING

Time : Three Hours

Maximum : 75 Marks

Answer Part A in full and any **six** *from Part B*
taking not more than **two** *questions from each module/unit.*

Part A

1. What are the reasons for software measure ?

2. What are the objectives of project planning ?

3. List the steps to be performed during risk assessment.

4. What are the elements of computer-based system ?

5. List the importance of software design.

6. What do you mean by scalar item ?

7. List the steps involved in transition from information flow to structure.

8. What is a graph matrix ?

9. How concatenated loops can be tested ?

10. What is the need for documentation ?

(10 × 3 = 30 marks)

Part B

UNIT I

11. Discuss any *one* decomposition techniques in detail.

12. Discuss on Risk management and monitoring.

13. Write a short note on feasibility study.

UNIT II

14. What is abstraction ? Discuss in detail.

15. What is cohesion ? How the degree of cohesion may be established ?

16. Discuss the issues of object oriented design.

UNIT III

17. What is data flow testing ? Discuss with an example.

18. Discuss on testing for real-time systems.

19. Discuss the following :—

    (a) Stress testing.
    (b) Performance testing.
    (c) Alpha test.

(6 × 7½ = 45 marks)