(2 pages)

Reg. No.....

Name.....

L 5542

FOURTH SEMESTER M.C.A. DEGREE EXAMINATION

NOVEMBER/DECEMBER 2004

OBJECT ORIENTED ANALYSIS AND DESIGN

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 unit.*

Part A

1. Mention the major attributes of a complex system.
2. Define abstraction. Give an example.
3. What do you understand by the term persistence ?
4. Illustrate the use of a class diagram with an example.
5. Why do we use state transition diagrams ?
6. Explain the term 'framework'.
7. Explain the use of a process diagram.
8. What are the different types of testing ?
9. Explain the term "Risk management".
10. What are the benefits of object-oriented development ?

(10 × 3 = 30 marks)

Part B

Unit I

11. Define the terms object oriented programm object oriented design and object oriented analysis. Explain how these are related.
12. Explain the term "object". By giving examples explain what you understand by the behaviour of an object.
13. Explain with examples the various kinds of relationships between classes.

Unit II

14. What is classification ? Why it is difficult.
15. Explain the methods for identifying key abstractions.
16. Discuss the representation of class categories.

Turn over

Unit III

17. Explain the macro development process.

18. Explain the use of scenarious with an example.

19. Explain the role of planning in software development life-cycle.

(6 × 7.5 = 45 marks)