

Register Number.....

MCA DEGREE EXAMINATIONS: APRIL/MAY 2012

Fourth Semester

MASTER OF COMPUTER APPLICATIONS

MCA516: Object Oriented Analysis and Design

Time: Three Hours

Maximum Marks: 100

Answer All Questions:-

PART A (10 x 2 = 20 Marks)

1. Differentiate between static binding and dynamic binding.
2. Differentiate between software verification and software validation.
3. Define pattern.
4. Give the advantages of modeling.
5. List the guidelines to be followed for finding use cases.
6. Why is CRC useful?
7. Define coupling.
8. What is a multidatabase system?
9. What is meant by scenario based testing?
10. What is a test plan?

PART B (5 x 16 = 80 Marks)

11. a) (i) How do objects respond to messages? (4)

(ii) Write short notes on:

1. Encapsulation and Information hiding. (6)

2. Associations and aggregations. (6)

(OR)

b) Describe the activities involved in Object Oriented Software Development life cycle.

12. a) Explain Unified Approach in detail with a diagram.

(OR)

b) Explain briefly the diagrams used for UML dynamic modeling with examples.

13. a) (i) Explain the notations associated with designing an UML class diagram. (12)

(ii) Write the guidelines to be followed for developing effective documentation. (4)

(OR)

b) (i) Explain the common class patterns approach used for identifying classes. (8)

(ii) List and explain the guidelines to be followed for identifying super-sub relationships. (8)

14. a) (i) Explain the corollaries derived from the independence axiom and information axiom. (8)

(ii) Explain the three basic types of attributes. (4)

(iii) Explain the types of methods provided by a class. (4)

(OR)

b) (i) How will you design access layer classes? (8)

(ii) Explain the guidelines for designing forms and data entry windows. (8)

15. a) (i) Explain the various testing strategies to test a system. (10)

(ii) Explain the guidelines to be followed for developing quality assurance test cases. (6)

(OR)

b) (i) Explain about usability testing. (8)

(ii) Explain about user satisfaction test. (8)
