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Z 3544

M.C.A. DEGREE EXAMINATION, MAY/JUNE 2008.

Fourth Semester

MC 1753 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is information hiding?
2. Define persistence.
3. Mention the OMT models described by Rumbaugh.
4. What is an Activity diagram?
5. What are the two types of use cases? Define.
6. List the guidelines for identifying Associations?
7. Define coupling.
8. What is meant by object interoperability?
9. What is a test case?
10. What is meant by error-based testing?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the significant aspects of object oriented technology. (16)
- Or
- (b) Explain object oriented software development life cycle. (16)
12. (a) Describe Booch methodology and Jacobson methodology of object oriented system development. (16)
- Or
- (b) (i) Explain the elements and the notations of UML class diagram in detail. (8)
- (ii) Draw the Activity diagram for a restaurant system and explain. (8)
13. (a) Develop an use case model for a library management system. State the problem definition, business rules and any assumptions you make. (16)
- Or
- (b) (i) With an example explain aggregation. (4)
- (ii) With an example explain noun phrase approach for classification. (12)
14. (a) Explain the object oriented design axioms and corollaries. Give examples. (16)
- Or
- (b) (i) Explain how classes can be designed. (8)
- (ii) Explain macro-level process and micro-level process of designing view layer classes. (8)
15. (a) Explain the various testing Strategies. (16)
- Or
- (b) (i) Discuss test plans and test cases. (8)
- (ii) Give the guidelines for developing usability test and user satisfaction test. (8)