

C 3161

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Fifth Semester

Information Technology

CS 1402 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is an object? Give an example.
2. What is the main advantage of object oriented development.
3. What are the phases of OMT?
4. List the Difference between Patterns and Frameworks.
5. Mention the elements used in the Usecase model.
6. When to use CRC cards?
7. How do you distinguish transient data from persistent data?
8. What is Design Axiom?
9. Describe UI design rules.
10. What is Quality assurance?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the advantages of Object Oriented Approach. (6)
- (ii) Briefly explain the elements of Object model. (10)

Or

- (b) (i) Briefly explain about Object oriented systems development life cycle. (8)
- (ii) Describe state, behaviour, and identity with respect to an object with relevant example. (8)
12. (a) (i) Compare and contrast the Object oriented methodology of Booch, Rumbaugh and Jacobson. (10)
- (ii) Write short notes on unified approach. (6)

Or

- (b) Draw the Class diagram, Usecase diagram, Interaction diagram for Library management system. (16)
13. (a) (i) Describe the basic activities of Object oriented analysis and explain how Usecase modeling is useful in analysis. (8)
- (ii) Draw the Usecase model for ATM Bank operation. (8)

Or

- (b) (i) Discuss the importance of proper classification. Briefly explain the different approaches used for identifying classes and objects. (10)
- (ii) Explain the relationship exist among objects. (6)
14. (a) Write short notes on the following :
- (i) Object Interoperability. (8)
- (ii) Access Layer. (8)

Or

- (b) (i) Briefly explain, how design axioms help to avoid design pitfalls. (8)
- (ii) Explain the principles and metrics of good object oriented design. (8)
15. (a) (i) Explain the macro and micro process of a view layer design. (12)
- (ii) How do you develop a custom form for a user satisfaction test? (4)

Or

- (b) (i) Describe the different testing strategies. (8)
- (ii) Create a User satisfaction test for bank system application. (8)