

B.TECH DEGREE EXAMINATIONS: NOV / DEC 2010

Fifth Semester

INFORMATION TECHNOLOGY

U07IT502: Object Oriented Analysis and Design

Time: Three Hours

Maximum marks: 100

Answer ALL Questions:-

PART A (10 x 1=10 Marks)

1. In an object the actions and their reactions are described by
 - a. State
 - b. Behaviour
 - c. Identity
 - d. Attribute
2. What are meta models?
 - a. A complete description of something
 - b. A description of description of a model
 - c. Describes the model elements, syntax and semantics of the notation that allows their manipulation
 - d. A complete description of the behaviour of the model
3. Which one of the following is not a relationship
 - a. Link
 - b. Aggregation
 - c. Containment
 - d. Generalization
4. Unified method is convergence of
 - a. Rumbaugh and Booch
 - b. Booch and Jacobson
 - c. Jacobson and Rumbaugh
 - d. Rumbaugh, Booch and Jacobson
5. Which one of the following is not an approach to identify a class
 - a. Noun phrase approach
 - b. Use case driven
 - c. CRC
 - d. Association
6. A corollary is
 - a. A noun phrase
 - b. An axiom
 - c. A preposition that follows an axiom
 - d. A proven solution
7. A persistent object
 - a. Stores its state in a storage system
 - b. Stores/saves its state in a permanent storage system
 - c. Prevents storing its state in a storage system
 - d. Provides a mechanism for data access
8. Major task provided by the access layer
 - a. Transforms a request
 - b. Transforms a data access
 - c. Transforms the request and response
 - d. Retrieves the result
9. User satisfaction test quantify's usability test with measurable
 - a. Attributes of test
 - b. Attributes of user
 - c. Attributes of usefulness
 - d. Attributes of test plan

10. Usability testing is a technique used to evaluate a product
- a. by testing it on the system
 - b. by testing it on the product
 - c. by testing it on users
 - d. by testing it on GUI

PART B (10 x 2 = 20 Marks)

- 11. When are CRC cards used?
- 12. List the significance of OOAD.
- 13. What are the phases of OMT?
- 14. List the difference between patterns and frameworks.
- 15. What is aggregation? Give an example.
- 16. How are usecases identified?
- 17. What is antipattern?
- 18. How is an Object database different from a relational database?
- 19. List the rules to be followed while designing the User Interface.
- 20. Define the term user satisfaction test.

PART C (5 x 14 = 70 Marks)

21. a) Describe the transformation of Object Oriented System Development life cycle with a suitable diagram. (OR)
- b) Describe the use case driven approach for Object Oriented Systems development.
22. a) Describe the Rumbaugh's Object Modeling Technique. (OR)
- b) (i) Represent the activity diagram for order management system. (10)
- (ii). Compare Rumbaugh,Booch and Jacobson Methodologies (4)
23. a) Describe the unified approach for Object oriented analysis. (OR)
- b) List the various approaches to identify classes. Write short notes on Noun phrase approach.
24. a) Elaborate on the various design axioms and corollaries. (OR)
- b) Describe the concept of the access Layer.
25. a) Write short notes on (i) SQA (10)
- (ii) System usability (4)
- (OR)
- b) (i) List out the user satisfaction cycle suggested by Gause and Weinberg. (7)
- (ii) Write short notes on the steps to create user interface. (7)
