

B.E. DEGREE EXAMINATIONS: APRIL/MAY 2009

Fourth Semester

COMPUTER SCIENCE AND ENGINEERING

U07CS401 Object Oriented Analysis and Design

Time: Three Hours

Maximum Marks: 100

Answer ALL the Questions:-

PART A (20 x 1= 20 Marks)

1. A prototype which is an aid for the incremental development of the ultimate software solution is
a)Horizontal b)Vertical c)Analysis d)Domain
2. In which among the following processes an attribute can be object to itself
a)Inheritance b)Aggregation c)Association d)Polymorphism
- 3.-----binding occurs when polymorphic calls are issued
a)Static b)Dynamic c)Direct d)Indirect
4. The fundamental concept of any object oriented system is
a)Polymorphism b)Inheritance c)Associations d)Aggregation
5. Which among the following is referred to as a part-whole relationship
a)Aggregation b)composition c)Generalization d)Association
6. _____ diagram is similar to the petrinet diagram
a)Class b)Activity c)Use-case d)State
7. -----diagram shows the configuration of run-time processing elements and software Elements
a)Component b)Deployment c)Interaction d)Sequence
8. Which among the following diagram is used to model the entire business process
a)Activity b)Class c)Use-case d)Static
9. Choose the one among the following options which represents the physical or conceptual connection between two or more objects
a)Association b)Aggregation c)Composition d)Inheritance
10. In the options given below, which represents the situation where a class consists of several components classes
a)Aggregation b)Composition c)Association d)Inheritance

11. Which of the following are the workhouses of the object oriented systems
- a)Methods and Object b)Methods and Classes
c)Methods and Messages d)classes and Messages
12. -----is a collection of people, resource, facilities, or groups to which the users belong
- a)People class b)Organization class c)Event class d)Places class
13. Identify the fundamental truth from the following that always is observed to be valid and for which there is no counter example or exception
- a)Axiom b)Theorem c)Corollary d)Concept
14. Find out the one which reflects the single purpose ness of an object
- a)Coupling b)Cohesion c)Standardization d)Mapping
15. The one which groups and manages the modeling elements is
- a)classes b)methods c)packages d)interfaces
16. Which among the following is simplest form of server
- a)Application server b)File server
c)Transaction server d)Database server
17. Which one the following testing is used to represent a system whose inside workings are not available for inspection
- a)Black box b)White box c)Top-down d)Bottom-up
18. Users are in ----- mode, when they continually must take some action to remain in that mode
- a) Tool driven mode b) Spring loaded mode
c) Continuous mode d) Active mode
19. ----- relates two unrelated things by using one tio denote the other
- a)Metaphor b)Mode c)Interface d)Package
20. Which of the following is called as usage based testing
- a)Scenario based testing b)Error based testing
c)Path testing d)Branch testing

PART B (5 x 16 = 80 Marks)

21. a. (i) Explain the class hierarchy. (8)
(ii) Describe the components of the unified approach. (8)

(OR)

- b. Explain the use case driven approach for object oriented systems development. (16)

22. a. (i) Explain briefly about Booch Methodology. (8)
(ii) Explain UML Class Diagram. (8)

(OR)

- b. Illustrate Unified Approach. (16)

23. a. Explain Noun Phrase Approach with suitable example. (16)

(OR)

- b. (i) Explain briefly about the relationship analysis for the vianet bank ATM system. (8)
(ii) Give brief description on Classes, Responsibilities and Collaborators. (8)

24. a. Explain Object Oriented Design Axioms and Corollaries. (16)

(OR)

- b. Describe Distributed Databases and Client-Server Computing (16)

- 25 a. Give a brief account on Purpose of View layer interface (16)

(OR)

- b. (i) Explain Testing Strategies (8)
(ii) Give a brief account on usability Testing (8)
