

M.C.A. DEGREE EXAMINATIONS: APRIL / MAY 2009

Fourth Semester

P07CA403 OBJECT ORIENTED ANALYSIS AND DESIGN

Time: Three Hours

Maximum Marks: 100

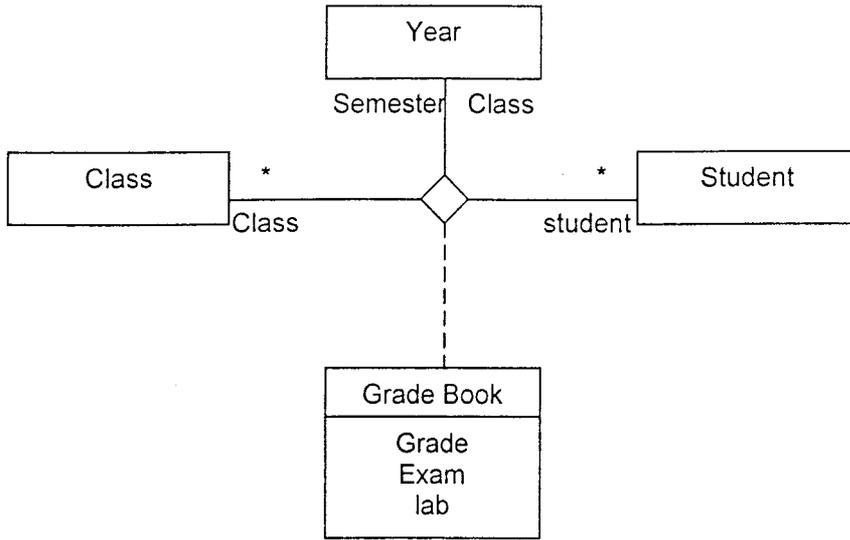
Answer ALL the Questions:-

PART A (20 x 1 = 20 Marks)

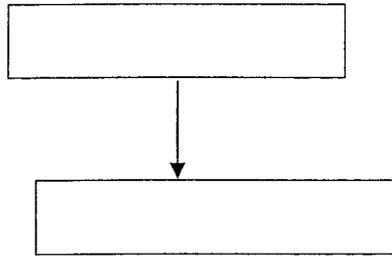
1. Define Object
  - A. Instance of Array
  - B. Instance of Pointer
  - C. Instance of Class
  - D. Instance of Polymorphism
  
2. What do you mean by Dynamic Inheritance?
  - A. Allows objects to change and evolve overtime.
  - B. Not allows objects to change and evolve overtime.
  - C. Allows class to change and evolve overtime.
  - D. Not allows class to change and evolve overtime.
  
3. Abbreviation of RAD is
  - A. Rapid application development
  - B. Resource application development
  - C. Revised allocation data
  - D. Resource allocation data
  
4. Define Metaclass
  - A. It is defined as objects of objects
  - B. It is defined as class of objects
  - C. It is defined as class of classes
  - D. It is defined as objects of class
  
5. Define proto – pattern
  - A. A pattern not waiting
  - B. A pattern in waiting
  - C. A Processor in waiting
  - D. A Processor not waiting
  
6. How many types of patterns are there
  - A. 4
  - B. 1
  - C. 3
  - D. 2
  
7. Expansion of OCL is
  - A. Object Component Level
  - B. Object Component Language
  - C. Object Constraint Level
  - D. Object Constraint Language

8. Which diagram represents the N-ary Association?

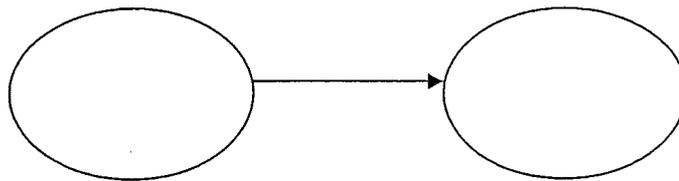
A.



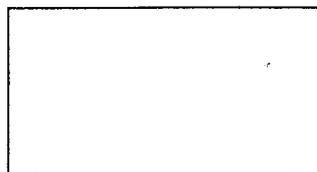
B.



C.



D.



9. What do you mean by Redundant Class?

- A. A class that express the same information
- B. Two classes that express the different information
- C. Two classes that express the same information
- D. A class that express the different information

10. Abbreviation of CRC cards is

- A. Classes Responsibilities and collaborators cards.
- B. Classes Requirements and collaborators cards
- C. Company Responsibilities and collaborators cards
- D. Classes Requirements and communication cards

11. CRC cards are

- A.  $6^n \times 4^n$  index cards
- B.  $4^n \times 6^n$  index cards
- C.  $6^n \times 6^n$  index cards
- D.  $4^n \times 4^n$  index cards

12. Define Association?

- A. Physical or conceptual connection between two or more objects
- B. Physical or conceptual connection between two or more classes
- C. Physical or conceptual connection of one objects
- D. Physical or conceptual connection of one class

13. Define about single Inheritance?

- A. Each class has more than a single super class.
- B. All class has only a single super class.
- C. Each class has only a super class.
- D. All class has more than a super class.

14. Expansion of OCL is

- A. Object constraint language
- B. Object conceptual language
- C. Object constraint level
- D. Object conceptual level

15. What is a primary key?

- A. A primary key is a combination of one or more super key
- B. A primary key represent only one attributes
- C. A primary key is a combination of one or more attributes
- D. A primary key represent only one super key

16. What are the two design Axioms?

- A. The Public axiom and Private axiom.
- B. The logical axiom and integrated axiom.
- C. The independence axiom and information axiom.
- D. The object axiom and class axiom.

17. What is the use of Bottom up testing?

- A. Testing the whole classes in a system.
- B. Testing the whole objects in a system.
- C. Testing the individual classes in a system.
- D. Testing the individual objects in a system.

18. What are the types of path testing?

- A. Statement and Branch testing coverage
- B. Black and White testing coverage
- C. Bottom up and Top – Down testing coverage
- D. Quality and Beta testing coverage

19. Expansion of USTS

- A. User Satisfaction Test Spreadsheet
- B. User Supply Test Spreadsheet
- C. User Satisfaction Total Spreadsheet
- D. User Satisfaction Test Supply

20. Define Path testing

- A. One form of white box testing,
- B. One form of black box testing,
- C. One form of alpha testing,
- D. One form of beta testing,

**PART B (5 X 16 = 80 Marks)**

21. a) Explain Object Oriented Systems Development aspects? (16)

**(OR)**

b) Explain about Objects and its basic with example? (16)

22. (a) (i) Differentiate static of Dynamic Model? (8)

(ii) Briefly discuss about modeling? (8)

**(OR)**

(b) Explain UML class diagram? (16)

23. (a) Define Use-case model and explain it with example? (16)

(OR)

(b) Define Association and explain about the various guidelines for identifying patterns? (16)

24. (a) State and explain briefly about Multi Database systems. (16)

(OR)

(b) Explain how an Access layer class was designed. (16)

25. (a) (i) Explain about Quality Assurance tests? (8)

(ii) What do you mean by Black Box testing? Explain it? (8)

(OR)

(b) Explain about test cases and test plan? (16)

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