KUMARAGURU
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Register Number: ……..

B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Fourth Semester

CSE107: OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to CSE & IT)

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Meta Class is

   a) Objects of objects b) Class of objects

   c) Class of classes d) Objects of Class

2. _____ measures the consistency of the product requirements with respect to design specification

   a) Correspondence b) Verification

   c) Validation d) Correctness

3. Which among the following is referred to as a part-whole relationship

   a) Aggregation b) Composition

   c) Generalization d) Association

4. Which of the following is UML interaction diagram?

   a) Sequence diagram b) State chart diagram

   c) Activity diagram d) Use-case diagram

5. _____ is a collection of people, resource, facilities or groups to which the users belong

   a) Event Class b) People Class

   c) Organization Class d) Places Class

6. Choose one among the following options that best represents a physical or conceptual connection between two or more objects’

   a) Association b) Aggregation

   c) Composition d) Inheritance

7. The degree of coupling for stamp coupling is

a) Very high b) High

c) Medium d) Low

8. Which of the following is a transient data?

a) Data that exists between executions of a program b) Data that out-live a program

c) Data that exists between versions of a program d) Results of evaluation of an expression.

9. 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

10. Find out which of the following reflects the single purpose of an object

a) Coupling b) Cohesion

c) Standarization d) Mapping

PART B (10 x 2 = 20 Marks)

11. Compare static binding and dynamic binding
12. Compare software verification and software validation.
13. Define the term: i) pattern ii) framework
14. List the advantages of modeling.
15. Identify the purpose of organization classes?
16. List the guidelines to be followed for defining attributes of classes in use cases.
17. Define coupling.
18. Compare stored procedure and referential integrity.
19. List out the steps involved in view layer macro process
20. List out design axioms.

PART C (5 x 14 = 70 Marks)

21. a) (i) Discuss the roles of a system Analyst. (5)

(ii) What is system Analysis & Design? Compare & Contrast Structured & Object oriented SAD methodologies. (9)

(OR)

b) Discuss in detail the tools for system development.

22. a) Explain the following object oriented concepts with suitable examples
Encapsulation, Inheritance, Polymorphism, Associations

(OR)

b) (i) Compare the Object Oriented methodology of Rumbaugh and Jacobson. (4)

(ii) Summarize Booch's Object-Oriented Analysis and Design methodology (10)

23. a) (i) Give the primary goals of UML (4)

(ii) Explain the notations associated with designing a UML class diagram. Give examples. (10)

(OR)

b) (i) Draw an activity diagram for processing mortgage requests (4)

(ii) What is the purpose of interaction models? Discuss the kinds of interaction models in detail. (10)

24. a) Explain about Noun Phrase approach with an example.

(OR)

b) (i) State the Guidelines for developing effective documentation (4)

(ii) Analyse object relationship for the via-net bank ATM system in detail (10)

25. a) (i) Discuss any 3 corollaries of design. (7)

(ii) Explain Object Oriented Data bases. (7)

(OR)

b) What is the purpose of access layer? Illustrate by considering access layer for an ATM application.

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