**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**
**(For candidates admitted during the academic year 2011 – 12 & thereafter)**

**SUBJECT CODE: 11CS/MC/OO64**

**B. C. A. DEGREE EXAMINATION, APRIL 2017**
**SIXTH SEMESTER**

**REG. NO. _____**

**COURSE : MAJOR CORE**
**PAPER : OBJECT ORIENTED ANALYSIS AND DESIGN**
**TIME : 30 MINUTES MAX. MARKS: 20**

**SECTION – A**
**TO BE ANSWERED ON THE QUESTION PAPER ITSELF**
**ANSWER ALL QUESTIONS: (20 x 1 = 20)**
**CHOOSE THE BEST ANSWER:**

1. A special form of association that specifies a whole-part relationship between whole and the part is _____.

   a. aggregration b. composition c. abstraction d. None of the mentioned

2. _____ describes how an object may physically or logically be a part of another object.

   a. Attributes b. Relationship c. Superior object d. Containment

3. A model which explains a set of related model is_____.

   a. meta model b. initial model c. primary model d. None of the mentioned

4. The _____ mechanism allows to customise and extend the uml by adding new building blocks with properties, semantics suitable for specific problem domain.

   a. component b. abstraction c. decomposition d. extensibility

5. _____ is a structural relationship that describes a set of rules.

   a. dependency b. generalization c. realization d. association

6. _____ is used to visualise the system from different perspectives.

   a. diagram b. flowchart c.DFD d. Graph

7. _____ is the first stage in object oriented design.

   a. design b. definition c. identification d. construction

8. A _____ is a proposition that follows from an axiom.

   a. corollary b. axiom of axiom c. assumption d. None of the mentioned

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9. _____ is a measure of strength of association established by a connection from one object or software component to another.

   a. cohesion b. coupling c. metric d. None of the mentioned

10. UML has _____type/s of visibility.

    a. public b. protected c. private d. all of the mentioned

**FILL IN THE BLANKS:**

11. Abbreviate JAD_____.

12. A _____ diagram shows how a collection of objects and classes work together.

13. In OOA an _____ model is developed to describe the functionality of the system.

14. Abbreviate UML _____.

15. A _____ is a representation in a certain medium of something in the same or another medium.

16. The most common kind of association is a _____ association between a pair of classifiers.

17. An _____ is a run-time entity with identity that can be distinguished from other run-time entities.

18._____ appear at the analysis, architecture, detailed design and implementation levels.

19. A _____ is a general-purpose mechanism for organizing elements into groups.

20. _____ is how a name can be seen and used by others.

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**TIME : 2 ½ HOURS MAX. MARKS: 80**

## SECTION – B

**ANSWER ALL QUESTIONS: (5 x 2 = 10)**

1. What is an object?
2. Give the advantages of object orient development.
3. List the process involved in unified approach.
4. Define pattern.
5. What is the visibility of a private element?

## SECTION – C

**ANSWER ANY EIGHT QUESTIONS: (8 x 5 = 40)**

6. Give the primary tasks in OOA.
7. Write a short note on objects communication with simple message.
8. What are represented by class diagram and object diagram?
9. What do you know about state diagram?
10. Who is an actor? Explain their role with an example.
11. Explain super-sub class relationship.
12. What are the commonly used design patterns?
13. Explain Association in detail.
14. Explain Object-Oriented Design Axioms in detail.
15. What are the different types of methods a class can provide? Explain.

## SECTION – D

**ANSWER ANY THREE OF THE FOLLOWING (3x10=30)**

16. What are the basics of object orientation?
17. What are the phases in software development process?
18. Give the guidelines to identify super-sub class relationships.
19. Write in detail about corollaries.
20. Write short notes on (i) UML object constraint language(5)
    (ii) refining attributes (5)

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