

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

SUBJECT CODE : 11CS/PC/OU24

M. Sc. DEGREE EXAMINATION, APRIL 2014

INFORMATION TECHNOLOGY

SECOND SEMESTER

COURSE : CORE
PAPER : OBJECT ORIENTED SYSTEMS DEVELOPMENT USING UML
TIME : 3 HOURS **MAX. MARKS : 100**

Section A

Answer all the questions: 10 x 2 = 20

1. Give reasons for taking up object orientation.
2. What is aggregation?
3. Define generative and non-generative patterns.
4. What is a statechart diagram?
5. Define the two properties of a part-of-relationship.
6. What is a use case?
7. Define axiom and corollary.
8. What are the types of attributes?
9. Name the distributed objects computing standards.
10. What is the purpose of a view layer interface?

Section B

Answer any six of the following questions: 6 x 5 = 30

11. Explain prototyping.
12. Describe UML class diagrams.
13. Illustrate uses and extends associations with a neat diagram.
14. Describe macro and micro development process of Booch methodology.
15. Give an explanation on common class patterns for finding candidate class and objects.
16. Explain coupling and cohesion.
17. Elucidate multi database system.
18. Describe the process of designing view layer classes.

Section C

Answer any five of the following questions: 5 x 10 = 50

19. Explain use case approach to object oriented system development.
20. Describe in detail the interaction diagram.
21. Define actor and explain identification of actors and guidelines for finding use cases.
22. Describe design patterns.
23. Explain about associations.
24. Explain the following:
 - a. Designing methods and protocols.
 - b. Guidelines for developing effective documentation.
25. Give a detailed description on object oriented database management systems.
