



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc.& B.C.A DEGREE EXAMINATION – COMPUTER SCIENCE & APPLI.**

**FIFTH SEMESTER – APRIL 2017**

**CS 5511 / CA 5511- OBJECT ORIENTED TECH. & SOFTWARE ENGINEERING**

Date: 26-04-2017  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART A**

**ANSWER ALL THE QUESTIONS**

**( 10 X 2 = 20 Marks)**

1. Define Inheritance.
2. What is prototyping and list its various types.
3. List out the various object oriented methodologies.
4. What is a package?
5. What are the guidelines for defining an attribute?
6. What is use Case diagram?
7. What are the uses of project metrics?
8. List down the characteristics and categories of risks.
9. Differentiate black box and white box testing.
10. Define software quality.

**PART B**

**ANSWER ALL THE QUESTIONS**

**( 5 X 8 = 40 Marks)**

11. a. Explain object oriented concepts.  
(OR)  
b. Discuss on Component Based Development(CBD) approach to the software development process.
12. a. Explain about Booch Methodology in detail.  
(OR)  
b. Draw and explain the UML Activity Diagram for purchase order system.
13. a. Why is classes, Responsibilities and Collaborators process technique is important? Explain.  
(OR)  
b. Write about Associations in detail.
14. a. Briefly explain about project scheduling.  
(OR)  
b. Explain about Software Configuration Management Process.
15. a. Explain about software reliability.  
(OR)  
b. Write about software testing fundamentals.

**PART C**

**ANSWER ANY TWO QUESTIONS**

**( 2 X 20 = 40 Marks)**

16. a. Explain about Object Oriented Systems Development approach.

b. Discuss on Patterns in detail.

17. a. Draw the use case diagram for Vianet bank ATM.

b. Explain about user interface design analysis.

18. a. Explain about software reengineering.

b. Discuss on control structure testing.

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