



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

**M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS**

**SECOND SEMESTER – APRIL 2015**

**CA 2805 - OBJECT ORIENTED SOFTWARE ENGINEERING**

Date : 21/04/2015

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

**PART A**

**Answer ALL Questions**

**(10 X 2 = 20)**

1. What are the steps of Enterprise Development approach?
2. What are the advantages of inheritance?
3. What type of objects do we identify in analysis model?
4. Write the UML notations for the following: i. class diagram. ii. use-case diagram.
5. How does a programming language affect design?
6. What technical constraints to be considered for the implementation environment?
7. What is white box testing?
8. What are different strategies of integration testing?
9. Name the levels of Capability Maturity Model(CMM).
10. What is Software Quality Assurance?

**PART B**

**Answer ALL Questions**

**(5 X 8 = 40)**

- 11a. Explain Prototyping model of developing software.  
**(or)**
- 11b. Give an account of spiral model of developing software.
- 12a. Explain various types of associations in Class diagram.  
**(or)**
- 12b. Describe an entity object.
- 13a. Describe the implementation environment  
**(or)**
- 13b. Write a note on statechart diagram.
- 14a. Describe the top-down approach of integration testing.  
**(or)**
- 14b. Write a short note on regression testing.
- 15a. Describe formal review process  
**(or)**
- 15b. How software metrics are collected? Explain.

**PART C**

**Answer any TWO Questions**

**(2 x 20 = 40 )**

- 16a. Discuss the various tasks involved in object-orient analysis.
- 16b. Write short notes on use-case.
- 17a. Discuss the role of object interaction diagram during s/w development
- 17b. Explain path testing.
- 18a. Explain risk analysis in project management **(12 marks)**
- 18b. What is Ivar Jacobson's advice regarding quality? **(8 marks)**

\*\*\*\*\*