



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

**M.Sc. DEGREE EXAMINATION - COMPUTER SC.**

**SECOND SEMESTER – APRIL 2013**

**CS 2954 - OBJECT ORIENT.ANALYSI & DESIGN**

Date : 07/05/2013  
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

**Part A**

**ANSWER ALL THE QUESTIONS.**

**10 x 2 = 20 Marks**

1. State the advantages of modeling.
2. What is object persistence refers to?
3. List out the guidelines for addressing variations in use case model.
4. What are the two major properties of a-part-of relationships?
5. Is Primary key so important in a relational model? Justify your answer.
6. Give the syntax for the navigational expressions in UML OCL.
7. What is Graphical User Interface?
8. Notify the significance of view layer interface.
9. What are the impacts of object orientation on testing?
10. Differentiate validation from verification.

**Part B**

**ANSWER ALL THE QUESTIONS.**

**5 x 8 = 40 Marks**

- 11 a). Draw and explain briefly about UML static diagrams (or)
  - b). Identify the relationship among UML dynamic diagrams and explain.
- 12 a). Develop the use case for a library system and explain (or)
  - b). List out and explain approaches for identifying object relationships.
- 13 a). Generate design rules from the axioms and explain (or)
  - b). Illustrate the process in designing methods and protocols for VIANET bank objects.
- 14 a). What are the four major activities in designing view layer classes? Explain them (or)
  - b) Propose the guidelines for designing forms and data entry widows.

15 a). List out and explain Myer's debugging principles briefly (or)

b). Sketch out the guidelines for developing test plans.

### Part C

**ANSWER ANY TWO QUESTIONS.**

**2 x 20 = 40 Marks**

16. a). With an example, illustrate the flexibility of altering software in an Object Oriented approach than in the structured approach. (10 Marks)

b). Explain in detail about the processes and components of unified approach. (10 Marks)

17 a). Compare noun phrases approach with common class pattern approach. (10 Marks)

b). Illustrate the mapping techniques for reverse and forward engineering. (10 Marks)

18 a). Develop the guidelines for designing application windows and for using fonts. (10 Marks)

b). Sketch out the usability test plans and test cases for the VIANET Bank ATM. (10 Marks)

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