## **LEARN LONER**

Roll No. ....

**Total Pages : 03** 

# BT-7/M-20 37149 OBJECT ORIENTED SOFTWARE ENGINEERING CSE-415N (Opt. ii)

Time : Three Hours]

[Maximum Marks : 75

**Note** : Attempt *Five* questions in all, selecting at least *one* question from each Section.

#### Section I

- (a) Explain the role of Object containment and Object Persistence to identify Objects and Classes. Also explain different types of Persistence.
  - (b) Differentiate between Aggregation and Association with suitable example.7
- 2. (a) Explain various ways by which the lifetime of an object can be extended.
  - (b) What do you mean by Meta Classes ? DiscussClass hierarchy.7

(2)L-37149 1

1

## LEARN LONER

#### Section II

3.	(a)	What do you mean by Patterns ? Describe Analysis
		and Design Patterns. 8
	(	b) Why are model constaints and stereotypes used in
		UML ? Explain various building blocks of UML.
		7
4.	(a)	What are generic components of Object-oriented
		design model ? Compare Jacobson and Booch
		methodology. 8
	<b>(b</b> )	Explain various Object Modelling techniques used
		in Rumbaugh Methodology. 7

#### Section III

- 5. (a) Explain Use-case approach in analysis of Objects.8
  - (b) What guidelines are used to identify a-part- of relationship ? How to eliminate unnecessary association ?
- 6. (a) Explain different approaches to identify classes. 8
  (b) Differentiate between class responsibilities and object responsibilities. 7

(2)L-37149

## LEARN LONER

## Section IV

7.	Elaborate different designing methods and protocols in		
	Obje	ct-Oriented Designing Process.	15
8.	(a)	Explain Design Axioms and Design Patterns in	
		Object-oriented design process.	8
	<b>(b</b> )	What is the relationship between Coupling and	
		Cohesion.	7

(2)L-37149

3

\_\_\_\_