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.
- 2. (a) Explain various ways by which the lifetime of an object can be extended.8
 - (b) What do you mean by Meta Classes? Discuss Class hierarchy.

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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)	Explain various Object Modelling techniques used				
		in Rumbaugh Methodology. 7				
		Section III				
5.	()					
	(a)	Explain Use-case approach in analysis of Objects.				
	(a)	Explain Use-case approach in analysis of Objects.				
	(a) (b)					
	()	8				
	()	What guidelines are used to identify a-part- of				
6.	()	What guidelines are used to identify a-part- of relationship? How to eliminate unnecessary				
6.	(b)	What guidelines are used to identify a-part- of relationship? How to eliminate unnecessary association?				
6.	(b) (a)	What guidelines are used to identify a-part- of relationship? How to eliminate unnecessary association? Explain different approaches to identify classes. 8				

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Section IV

7.	Elaborate	different	designing	methods	and	protocols	in
	Object-Or			15			

- 8. (a) Explain Design Axioms and Design Patterns in Object-oriented design process.8
 - (b) What is the relationship between Coupling and Cohesion.

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