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.8
 - (b) What do you mean by Meta Classes ? DiscussClass hierarchy.7

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Section II

(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
(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
(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 ? 7
	(b) (a) (b) (a)

6. (a) Explain different approaches to identify classes. 8
(b) Differentiate between class responsibilities and object responsibilities. 7

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Section IV

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

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