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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 Associationwith 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.

Section II

3.	(a)	What do you mean by Patterns ? Describe Analysis
		and Design Patterns.
	(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.
	(b)	Explain various Object Modelling techniques used
		in Rumbaugh Methodology. 7
		Section III
_	(a)	Evaluin Uka sasa annuasah in anahuis of Ohisata
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? 7
6.	(a)	Explain different approaches to identify classes. 8
	(b)	Differentiate between class responsibilities and object
		responsibilities. 7

Section IV

- 7. Elaborate different designing methods and protocols in Object-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 and Cohesion. 7