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 AttemptFive questions in all, selecting atneeast question from each Section.

Section I

- 1. (a) Explain the role of Object containment and Object Persistence identifyObjectsandClasses. Also explain different types of Persistence. 8
 - (b) offerentiate 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 meanby Meta Classes? Discuss Class hierarchy. **7**

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Section II

3.	(a)	What do you	mean by	Patterns ?	Describe Analysis
		and Design Pa	atterns.	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 designmodel? Compare acobsonand Booch methodology.
 - (b) Explain various Object Modelling techniques usedin Rumbaugh Methodology.

Section III

5. (a) Explain Use-case approach in analysis of Objects.

8

- (b) What guidelineare used to identify a-part-of relationship? How to eliminate unnecessary association?
- **6.** (a) Explain different approaches to identify classes.
 - (b) Differentiate between class responsibilities and object responsibilities.

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Section IV

- 7. Elaboratedifferentlesigning methods parrodocols in Object-Oriented Designing Process. 15
- 8. (a) Explain Design Axioms and Design PatternsinObject-oriented design process.8
- (b) What is the relationship etweer Coupling and Cohesion.

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