

Total number of printed pages-3

53 (CS 511) OOAD

2021

**OBJECT ORIENTED ANALYSIS AND
DESIGN**

Paper : CS 511

Full Marks : 100

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

Answer all questions.

1. Answer **any ten** questions : $6 \times 10 = 60$
 - (i) Describe an object-oriented design.
 - (ii) Define an UML with its usages.
 - (iii) What is the importance of modeling?
 - (iv) What are the principles of modeling?
 - (v) What is the relationship between sequence and communication diagrams?

Contd.

- (vi) What is Software development life cycle?
- (vii) Explain the *five* meaningful metrics for building quality classes and objects.
- (viii) What are the *four* kinds of things in building blocks of the UML?
- (ix) Describe the *four* types of relationship with graphical representation in building blocks of the UML.
- (x) Define state and activity diagrams.
- (xi) Describe a good system according to user's need and also the challenges for achieving a good system.
2. Answer **any five** questions : $8 \times 5 = 40$
- (i) Explain a conceptual model of UML with a diagram.
- (ii) Describe package and interface in the context of Object Oriented Design (OOD).
- (iii) Explain the compartments of UML with its representation of class diagram.

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- (iv) Explain use cases and actors for the car rental company with a diagram and also two types of packages.
 - (v) Explain the association relationship between two models with their types, also define association class with its graphical representation.
 - (vi) Describe inheritance in OOD with an example of bank account and inherited other bank accounts also.

