

Code No: **R1631053**

**R16**

SET - 1

**III B. Tech I Semester Supplementary Examinations, August - 2021**

**OBJECT ORIENTED ANALYSIS AND DESIGN USING UML**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)

2. Answer **ALL** the question in **Part-A**

3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

**(14 Marks)**

1. a) List the significant modules in object-oriented modeling. [2M]
- b) Define class and give example. [2M]
- c) List the common modeling mechanisms of class. [2M]
- d) Define activity state and action state. [3M]
- e) List the advanced behavioral modeling concepts. [3M]
- f) Define a component. [2M]

**PART -B**

**(56 Marks)**

2. a) Discuss the role of decomposition in mastering the complexity. [7M]
- b) List and explain the major elements of object-oriented modeling. [7M]
3. a) How to identify the class and objects from the requirement specifications? How to represent them in UML? [7M]
- b) Discuss the importance of proper classification. [7M]
4. a) Model a class diagram for an e-shopping website management. [7M]
- b) Explain the things with notations in UML. [7M]
5. a) Identify states, interactions and operations in banking transaction and model an interaction diagram. [7M]
- b) Model a collaboration diagram for ATM pin verification by considering three attempts. [7M]
6. a) Illustrate parallel processing in state chart diagram with a neat sketch. [7M]
- b) Illustrate the process and threads with suitable diagrams. [7M]
7. a) Explain the common modeling methods of deployment diagram. [7M]
- b) Model a deployment diagram for an e-shopping application. [7M]

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