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R-15

Code: 5G478

IV B.Tech. I Semester Supplementary Examinations July 2021

Object Oriented Analysis and Design

(Common to CSE & IT)

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

UNIT-I

1. a) Define a model. List the rules and principles of modeling in UML? 7M
- b) What are the things available in UML? Write in brief. 7M

OR

2. a) Write short note on relationships. 7M
- b) Explain the conceptual model of the UML? 7M

UNIT-II

3. a) What is a classifier? How it is helpful in designing a Template class? 7M
- b) Explain the concept of multiple inheritance. 7M

OR

4. a) Discuss the Advanced Relationships in UML. 7M
- b) What is a class? How class diagrams are helpful in modeling logical database schemas. 7M

UNIT-III

5. a) How Collaboration diagram differs from Sequence Diagram, explain with an example 7M
- b) What is use of Sequence Diagram and explain the important elements of Sequence Diagram? 7M

OR

6. a) Define Use case? What are the points to be considered to model the context of a system using Use case diagram? 7M
- b) Draw the Use case Diagram for Library Management System? 7M

UNIT-IV

7. a) Give brief discussion about various kinds of events? 7M
- b) Define a state? What are the important parts of a state? 7M

OR

8. a) What is State Chart Diagram? Explain the properties of state chart diagram and draw the state chart diagram for Library System 7M
- b) Give brief discussion about various kinds of events? 7M

UNIT-V

9. What is a component? How these components are helpful in designing interfaces and APIs? 14M

OR

10. a) How we can model processors and devices? 7M
- b) Write short note on nodes. 7M
