Code: 4G463

III B.Tech. II Semester Supplementary Examinations October 2020

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)

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UNIT–I

1. a) What is Unified Modeling Language? What is the importance of using UML for modeling systems? Explain.

    b) Explain in detail about various phases of Unified Software Development Process.

OR

2. Explain in detail about the types of relationships in UML modeling.

UNIT–II

3. What is the role of a Class Diagram? Develop a library information system using Class Diagram.

OR

4. a) What is a classifier? How it is helpful in designing a Template class?

    b) Explain the concept of multiple inheritance.

UNIT–III

5. a) How Collaboration diagram differs from Sequence Diagram, explain with an example

    b) What is use of Sequence Diagram and explain the important elements of Sequence Diagram?

OR

6. a) Define Use case? What are the points to be considered to model the context of a system using Use case diagram?

    b) Draw the Use case Diagram for Library Management System?

UNIT–IV

7. a) What is meant by a signal? How we can model families of signals?

    b) Explain the concept of inter process communication.

OR

8. What is a state machine? design a state machine for different objects in library system

UNIT–V

9. a) Explain the purpose of Component Diagram and also explain the distribution of artifacts using Component Diagram

    b) Draw the Component Diagram for Library System

OR

10. Explain about Deployment diagram? How it is useful in modeling of an embedded system? Draw the Deployment Diagram for Library System?

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