

Time : 3 hrs
Total Marks: 100

1. a. Explain use-case driven object oriented analysis and object oriented design. (12)
b. Explain consumer producer association. (8)
OR
2. a. Describe the software development process in detail. (10)
b. Detail the patterns and anti-patterns for the ATM cash withdrawal and balance checking Scenario. (10)
3. a. Explain Rumbagh and Jacobson methodologies with examples. (12)
b. What is the purpose of repository in Unified approach? (8)
OR
4. a. Draw the use case diagram, class diagram, sequence diagram and activity diagram for a railway reservation system. (10)
b. Explain the different types of relationships between classes. Give example. (10)
5. a. Analyze the bank ATM system using Use-Case driven process? (10)
b. Differentiate Object Oriented Analysis and Object Oriented Design in unified approach. (10)
OR
6. a. Use the noun phrase approach to identify the objects from the grocery store problem. A store wants to automate its inventory. It has point-of-sale terminals that can record all of the items and quantities that a customer purchases. Another terminal is also available for the customer service desk to handle returns. It has a similar terminal in the loading dock to handle arriving shipments from suppliers. The meat department and produce department have terminals to enter losses/discounts due to spoilage. (10)
b. Write short notes on the following:
i) Association. (5)
ii) Super-sub-structure. (5)
7. a. How would you identify a-part-of relationship? (10)
b. What is the use of CRC approach? Give example. (10)
OR
8. a. Discuss in detail about the various types of axioms and corollaries and explain why it is important in design process.
b. Describe the following:
i) Class Visibility. (5)
ii) UML attribute presentation. (5)
9. a. Explain the steps involved in designing the access layer classes? (5)
b. Elucidate macro level process in identifying view layer classes. (8)
c. Discuss the importance of view layer. (7)

Wishing you All the Best
