

CS403 Software Engineering (RGPV)

Unit-3: Software Design

Most Important Questions based on PYQ Analysis (2022-2025)

1. Explain UML and different UML diagrams with suitable examples.
2. Explain Class Diagram with neat sketch.
3. Explain Use Case Diagram and its components.
4. Explain Activity Diagram and Sequence Diagram.
5. Explain Software Design Process with diagram.
6. Discuss Software Design Concepts and Principles.
7. Explain Architectural Design and its importance.
8. Explain Architectural Views with suitable examples.
9. Discuss different Architectural Styles and Patterns.
10. Explain User Interface Design and Golden Rules of UI Design.
11. Differentiate Function-Oriented and Object-Oriented Design.
12. Explain Function-Oriented Design in detail.
13. Explain SA/SD approach to Function-Oriented Design.
14. Explain Component Based Design with advantages and disadvantages.
15. Explain Design Metrics and their importance in Software Quality.
16. Differentiate Cohesion and Coupling.
17. Explain Object-Oriented Modeling with suitable example.
18. Write short note on Pattern-Based Software Design.
19. Explain Software Modeling and Model Views.
20. Discuss Interface Analysis and Design Model.