

SOFTWARE ENGINEERING

UNITWISE QUESTIONS

S.No UNIT-1

- 1 Explain the evolving role of software and explain changing nature of software in detail
- 2 Explain “Software myth”? Discuss on various types of software myths and the true aspects of these myths
- 3 What is Software Maturity Model and Explain in detail about the Capability Maturity Model Integration (CMMI) Process
- 4 Describe SDLC? Compare any two Software Development Models in detail
- 5 Explain process framework activities

UNIT-2

- 1 Explain requirement engineering process
- 2 Compare functional requirements with non-functional requirements
- 3 Discuss how feasibility studies are important in requirement engineering process.
- 4 Explain context models, Behavioural models, Data models and Object Model inbriefly
- 5 Discuss briefly how requirement validation is done?

UNIT-3

- 1 Discuss briefly the following fundamental concepts of software design:
i) Abstraction ii) Modularity iii) Information hiding.
- 2 Explain software architecture in a detail manner
- 3 What are the goals of the user interface design
- 4 Discuss architectural styles and patterns
- 5 Describe mapping data flow into a software architecture
- 6 What are the design concepts in software engineering

UNIT-4

- 1 Explain about the importance of test strategies for conventional software
- 2 Compare black box testing with white box testing and Compare Alpha Testing with Beta Testing

3 Discuss an overview of quality metrics

4 Explain about Metrics for maintenance

5 Explain in detail about Software Measurement?

6 Elaborate the concepts of Risk management Reactive vs Proactive Risk Strategies, How the risk will be identified and Explain the RMMM Plan in brief

UNIT-5

1 Explain about Quality concepts?

2 Explain software quality assurance

3 Explain in detail ISO 9000 quality standards

4 Explain about Software Reviews and formal technical reviews

5 Discuss software reliability