**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 frame work 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