

UNIT 1

1. Explain about the unique nature of WebApps.
2. What are general principles of software engineering? Explain.
3. What is software? Explain about software myths in detail.
4. Write a template for describing a process pattern.
5. What are specialized process models? Explain in detail.
6. Discuss about evolutionary process models.
7. Explain about the software process in detail.
8. Explain about personal and team process models.

UNIT 2

1. Discuss in detail about important categories of customer requirements.
2. How to identify and document functional requirements? Explain.
3. Explain about organization of SRS document.
4. Explain in detail about formal system specification.
5. Give an overview of the design process.
6. How to characterize a good software design? Explain.
7. Explain about classification of cohesiveness.
8. Discuss about object-oriented design.

UNIT 3

1. Explain in detail about context diagram.
2. Explain in detail about data flow diagrams with examples.
3. Explain about level 1 DFD with example.
4. Explain in detail about transformation of a DFD model into structure chart.
5. What are various types of user interface? Explain.
6. Write basic concepts of basic interface design.
7. What are fundamentals of component-based GUI? Explain.
8. Discuss about menu-based interface.

UNIT 4

1. Describe McCabe's cyclomatic complexity metric.
2. Explain in detail about code review.
3. What is performance testing? Explain in detail.
4. Describe boundary-value analysis.
5. Discuss about software documentation.
6. Write basic concepts of white-box testing.
7. Discuss in detail about black-box testing.
8. What are program analysis tools? Explain.

UNIT 5

1. Discuss about SEI capability maturity model.
2. What is CASE? Explain CASE environment.
3. Explain about reliability metrics of software products.
4. Describe CASE support in software life cycle.
5. What are characteristics of CASE tools? Explain.
6. Explain about software quality management system.
7. Explain about personal software process in detail.
8. Briefly explain about computer aided software engineering.

UNIT 6

1. Define software maintenance. Explain about software reverse engineering.
2. What is software reuse? Explain reuse at organizational level.
3. Explain in detail about software reverse engineering.
4. What are approaches of reuse? Explain.
5. What can be reused? What are basic issues in any reuse program?
6. What are software maintenance process models? Explain.
7. What are characteristics of software maintenance? Explain.
8. Explain about reuse at organizational level.