

5th Semester Examination
Subject: Software Engineering
2019

Unit-1

1. What is Rational Unified process. How it is different from Agile process? What are its activities? [7]
 2. Discuss scaling methods of Agile model. [7]
- OR
3. For what type of software water fall and prototyping method implemented? What are the demerits of waterfall process? [5]
 4. State the initial phase of software development? How it is related to the next phases of SDLC? [5]
 5. Write the various roles of a software engineer? [4]

Unit-2

1. Define Requirements elicitation and analysis and the steps performed? [7]
 2. Discuss different Architectual views. For whom architectural design is necessary and why. [7]
- OR
3. Why are requirements validated? Give examples of requirements from a specific software system. [6]
 4. Define System modeling? What are the various system models. [8]

Unit-3

1. Discuss use case and state diagram for University student management system. [8]
 2. State the hierarchy of software testing. [6]
- OR
3. Why is software evolution necessary? What are the laws of process evolution? [8]
 4. What are the basic types of programming strategy for software implementation? State its issues? [6]

Unit-4

1. What is software Dependability? State the elements of Software Dependability? [7]
 2. Discuss Socio-technical system? [7]
- OR
3. Differentiate between software availability and reliability? State the specification for software security. [7]
 4. What are risk driven requirements? State the process of handling risk based requirements. [7]

Unit-5

1. What is dependable programming? Discuss dependability engineering. [11]

2. What is Reliability Testing?

[3

OR

3. Discuss security engineering.

[9

4. Explain static analysis.

[5