

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY- GURAJADA VIZIANAGARAM**  
**II B. Tech I Semester Supplementary Examinations, November – 2024**  
**SOFTWARE ENGINEERING**  
**CSE**

**Time: 3 hours****Max. Marks: 70**

*Answer any FIVE Questions*  
*ONE Question from Each unit*  
*All Questions Carry Equal Marks*  
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|----|----|---|------|
| 1  | a) | Discuss the unique characteristics of WebApps and how they impact development and maintenance.                    | [7M] |
|    | b) | Illustrate the phases of a generic process model in software engineering and their importance                     | [7M] |
|    |    | (OR)  |      |
| 2  | a) | Describe the purpose of process assessment and improvement in software engineering.                               | [7M] |
|    | b) | Outline the common software myths, and discuss their impact on software development projects.                     | [7M] |
| 3  | a) | Explain the concept of agility in software engineering and discuss its importance in managing the cost of change. | [7M] |
|    | b) | Describe the process of developing use cases.   | [7M] |
|    |    | (OR)  |      |
| 4  | a) | Outline core principles of software engineering that apply within an agile framework.                             | [7M] |
|    | b) | Identify and explain any two agile process models   | [7M] |
| 5  | a) | Explain how UML models can supplement use cases in requirements modeling with examples.                           | [7M] |
|    | b) | Describe about data modeling concepts and discuss their importance in representing system requirements.           | [7M] |
|    |    | (OR)  |      |
| 6  | a) | Explain the purpose of requirements analysis in software engineering and its role in the development process.     | [7M] |
|    | b) | Compare and contrast different requirements modeling strategies   | [7M] |
| 7  | a) | Explain the process of assessing alternative architectural designs.   | [7M] |
|    | b) | Describe the role of design within the context of software engineering  | [7M] |
|    |    | (OR)  |      |
| 8  | a) | Illustrate about component-based development.   | [7M] |
|    | b) | Compare different architectural styles.   | [7M] |
| 9  | a) | Describe the Golden Rules of user interface design and explain their importance in creating effective interfaces. | [7M] |
|    | b) | Explain the concept of white-box testing in software testing process.   | [7M] |
|    |    | (OR)  |      |
| 10 | a) | Explain the process of user interface analysis  | [7M] |
|    | b) | Define Software Quality Assurance (SQA) and explain its importance in ensuring software reliability.              | [7M] |

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