

II B. Tech I Semester Supplementary Examinations, July - 2023
SOFTWARE ENGINEERING
 (Computer Science & Engineering)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions each Question from each unit
 All Questions carry **Equal** Marks

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UNIT-I

- 1 a) Explain about the software process and generic process model. [7M]  
 b) Discuss about process patterns and specialized process model. [7M]

Or

- 2 a) Describe component-based development and the formal methods model. [7M]  
 b) Define software engineering. Explain about legacy software. [7M]

UNIT-II

- 3 a) Explain the politics of agile development and human factors. [7M]  
 b) What are deployment principles? Build the requirements model and discuss on negotiations and validation of requirements. [7M]

Or

- 4 a) Define use case. How to develop use cases? Explain with ATM system. [10M]  
 b) Explain about a tool set for the agile process explain various agile process models. [4M]

UNIT-III

- 5 a) Draw and explain activity diagram of library application. [7M]  
 b) Discuss about creating a data flow model for library management systems. [7M]

Or

- 6 a) Explain about interaction and functional models for WebApps. [7M]  
 b) Describe associations and dependencies in class-based modeling. [7M]

UNIT-IV

- 7 a) Explain about component qualification, adaptation and composition. [7M]  
 b) Describe architecture trade-off analysis method and architectural complexity. [7M]

Or

- 8 a) What are design concepts? Explain in detail. [10M]  
 b) Explain about traditional view of a component. [4M]

UNIT-V

- 9 a) What is unit testing? Explain in detail with traditional test strategies. [7M]  
 b) Explain in detail about task analysis and modeling. [7M]

Or

- 10 a) Discuss about interface design steps in detail. [10M]  
 b) Explain about software reliability. How to enhance it? [4M]

