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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech III Year I Semester Supplementary Examinations July-2022****SOFTWARE ENGINEERING & ARCHITECTURE**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a Explain the Water fall model and Problems encountered in it. L1 6M  
 b Write notes on the following terms L2 6M  
 i) Legacy Software ii) Engineering/Scientific Software

**OR**

- 2 What is CMMI and explain about CMMI models in details. L1 12M

**UNIT-II**

- 3 a Explain about Requirement Analysis Models. L1 6M  
 b Explain in detail Elicitation Techniques. L1 6M

**OR**

- 4 What is a use-case? Why is it used? How does it help in analyzing the requirements? Use an example to demonstrate. L1 12M

**UNIT-III**

- 5 Explain in detail about Design Concepts. L1 12M

**OR**

- 6 a Draw the use case diagram for ATM system. L2 6M  
 b How to create Data Flow Model and draw the notations in flow modeling. L1 6M

**UNIT-IV**

- 7 a Explain about Art of debugging. L1 6M  
 b Write in detail about unit testing. L2 6M

**OR**

- 8 a What is Software Cost Estimation and short notes on COCOMA model. L1 6M  
 b Write in detail about White Box testing. L2 6M

**UNIT-V**

- 9 Explain in detail about the Repositories in Heterogeneous Architectures. L1 12M

**OR**

- 10 a Write about Data Abstraction. L2 6M  
 b Explain about Object-Oriented Organization. L1 6M

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