

Reg. No: 

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
(AUTONOMOUS)**B.Tech III Year I Semester Regular Examinations March-2023****SOFTWARE ENGINEERING**

(Common to CIC, CSM &amp; CSE)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- |   |   |      |    |    |
|---|---|------|----|----|
| 1 | a Define Software and describe the characteristics of software. | CO 1 | L2 | 6M |
|   | b How Process framework is created for software? Explain.       | CO 1 | L1 | 6M |

OR

- |   |   |     |    |      |
|---|---|-----|----|------|
| 2 | For what kind of software Spiral model is used? Examine in detail about it. | CO1 | L2 | 12 M |
|---|---|-----|----|------|

**UNIT-II**

- |   |  |      |    |      |
|---|--|------|----|------|
| 3 | Discuss about Requirement Engineering steps. | CO 2 | L2 | 12 M |
|---|--|------|----|------|

OR

- |   |   |      |    |    |
|---|---|------|----|----|
| 4 | a Discuss about "Establishing the groundwork" steps involved in inception phase of requirement engineering. | CO 3 | L2 | 6M |
|   | b Explain how to create a Behavioral Model with a use case diagram.   | CO 3 | L2 | 6M |

**UNIT-III**

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|---|--|------|----|----|
| 5 | a What is the Design process? Discuss software quality guidelines. | CO 3 | L2 | 6M |
|   | b Describe a Design model with various kinds of elements.          | CO 3 | L2 | 6M |

OR

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|---|--|------|----|----|
| 6 | a Distinguish between Analysis Model and Design Model.               | CO 4 | L5 | 6M |
|   | b Write down the steps in refining the Architecture into Components. | CO 4 | L2 | 6M |

**UNIT-IV**

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|---|--|------|----|----|
| 7 | a Design the swim-lane diagram for ATM system. | CO 3 | L6 | 6M |
|   | b Express the rules of User Interface Design.  | CO 4 | L2 | 6M |

OR

- |   |   |      |    |    |
|---|---|------|----|----|
| 8 | a Organize the steps involved in WebApp Interface Design. | CO 5 | L4 | 6M |
|   | b Explain in detail about Aesthetic design.               | CO 5 | L2 | 6M |

**UNIT-V**

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|---|--|------|----|----|
| 9 | a What is Software Testing? Why it is important before deploying the software. | CO 5 | L4 | 6M |
|   | b Discriminate the strategic approach to software testing.                     | CO 5 | L5 | 6M |

OR

- |    |  |      |    |    |
|----|--|------|----|----|
| 10 | a What are the Testing Methods applicable at the Class Level? Explain. | CO 6 | L1 | 6M |
|    | b Illustrate Testing Strategies for Object Oriented software.          | CO 6 | L3 | 6M |

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