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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year II Semester Regular Examinations July-2021**

**SOFTWARE ENGINEERING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |   |  |    |    |
|---|--|----|----|
| 1 | a What is Software Engineering?                                    | L1 | 2M |
|   | b List the seven tasks of Requirements Engineering.                | L4 | 2M |
|   | c Define cohesion and coupling.                                    | L1 | 2M |
|   | d What are the three golden rules in interface design?             | L1 | 2M |
|   | e Specify the approaches available to design black box test cases. | L5 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |           |   |    |    |
|-----------|---|----|----|
| 2         | a Discuss characteristics of software.                      | L6 | 5M |
|           | b Explain any two of the specialized process models.        | L5 | 5M |
| <b>OR</b> |   |    |    |
| 3         | a What is Agility? Illustrate any two Agile Process Models. | L1 | 5M |
|           | b Write a note on Agile Unified Process.                    | L3 | 5M |

**UNIT-II**

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|-----------|---|----|-----|
| 4         | Define Requirement Engineering and explain about Requirements Engineering Tasks | L1 | 10M |
| <b>OR</b> |   |    |     |
| 5         | Construct Class-Based Modeling briefly.   | L3 | 10M |

**UNIT-III**

- |           |   |    |     |
|-----------|---|----|-----|
| 6         | What is the Design process? Discuss software quality guidelines and attributes. | L1 | 10M |
| <b>OR</b> |   |    |     |
| 7         | a What is Architecture?   | L2 | 3M  |
|           | b Explain briefly about Architecture Genres.                                    | L2 | 7M  |

**UNIT-IV**

- |           |   |    |     |
|-----------|---|----|-----|
| 8         | List out various steps of Interface Design;       | L4 | 10M |
| <b>OR</b> |   |    |     |
| 9         | a Define five quality attributes of WebApp Design | L1 | 5M  |
|           | b Discuss set of Design goals in WebApp.          | L6 | 5M  |

**UNIT-V**

- |           |   |    |    |
|-----------|---|----|----|
| 10        | a Explain system testing                                  | L5 | 5M |
|           | b Elaborate a strategic approach to software testing.     | L6 | 5M |
| <b>OR</b> |   |    |    |
| 11        | a Write a short note on fundamentals of software testing. | L3 | 5M |
|           | b Describe briefly about White box testing.               | L2 | 5M |

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