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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**

(AUTONOMOUS)

**M.Tech I Year I Semester Regular & Supplementary Examinations May/June-2022****SOFTWARE ENGINEERING AND TESTING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Define Software. How Software evolves for a period of cycle. Explain? L2 6M  
 b Explain the changing Nature of Software in brief. L2 6M

**OR**

- 2 What is a layered Technology in Software Engineering? Explain. L2 12M

**UNIT-II**

- 3 Define Requirement Engineering and explain about Requirements Engineering Tasks. L2 12M

**OR**

- 4 a Explain in detail about Communication Principles/Practices. L2 6M  
 b Explain in detail about Planning Principles/Practices. L2 6M

**UNIT-III**

- 5 a Brief out the analysis in Modeling and List out the elements of analysis model. L2 6M  
 b What is the importance of Scenario Based Diagram? Explain. L1 6M

**OR**

- 6 How Scenario based Modeling is used in Analysis and Design while modeling. L2 12M

**UNIT-IV**

- 7 a Distinguish Testing and Debugging in detail. L2 6M  
 b How Bugs affect us from mild to catastrophic in our day-to-day life. L3 6M

**OR**

- 8 What is the use of CFG? Explain how the elements of CFG is used in Path Testing. L1 12M

**UNIT-V**

- 9 How DFG is used in DFT. Explain the 2 types of DFG. L2 12M

**OR**

- 10 Explain in detail about Transaction Flow Testing Techniques. L2 12M

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