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

B.Tech III Year II Semester Regular & Supplementary Examinations October-2020

SOFTWARE ENGINEERING & TESTING

(Computer Science & Information Technology)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

1 Explain in detail the Capability Maturity Model Integration (CMMI). 12 M

OR

2 a Explain Boehm's Waterfall Model with a neat diagram. 6 M

b Explain RAD Model with a neat diagram. 6 M

UNIT-II

3 a Validating Requirements 6 M

b Explain briefly various elements of analysis model 6 M

OR

4 Describe the concept of developing use-cases with Safe Home Control Panel. 12 M

UNIT-III

5 a Define design engineering. What are the different design concepts that you know in design engineering 6 M

b Pattern-based software design. 6 M

OR

6 a What is data modeling? Explain briefly data modeling concepts 8 M

b Information Hiding. 4 M

UNIT-IV

7 a Discuss in detail the taxonomy of bugs. 7 M

b Basic concepts of Path Testing. 5 M

OR

8 Explain briefly control flow graphs with their elements. Discuss decisions and case statements. 12 M

UNIT-V

9 Explain various strategies involved in data-flow testing. 12 M

OR

10 What do you understand domains and interface testing technique in software testing methodologies? 12 M

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