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

MCA II Year II Semester Supplementary Examinations July-2021

SOFTWARE TESTING

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Explain the concepts i) Path Predicates ii) Path Sensitizing 8M
b Explain the taxonomy of Bugs? 4M

OR

- 2 a State and explain various dichotomies in software testing. 6M
b Explain goals for testing and model for testing in software testing. 6M

UNIT-II

- 3 a Define transaction flow graph and define transaction with an example. 6M
b Explain various loops with an example. 6M

OR

4. What are data-flow anomalies? How data flow testing can explore them? 12M

UNIT-III

- 5 Discuss with example the equal - span range/Doman compatibility bugs. 12M

OR

- 6 a Explain about linear domain boundaries. 6M
b Explain about complete domain boundaries. 6M

UNIT-IV

- 7 a Write Short Notes on Distributive Laws 4M
b Discuss path sums, path products and absorption laws. 8M

OR

- 8 Explain Regular Expressions and Flow Anomaly detection. 12M

UNIT-V

- 9 a Write testers comments about state graphs 6M
b Write the design guidelines for building finite state machine into code. 6M

OR

- 10 a What are the types of bugs that can cause state graphs? 6M
b Explain about good state and bad state graphs. 6M

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