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SIDDHARTH INSTITUTE OF ENGINEERING &amp; TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech III Year II Semester Supplementary Examinations Dec 2019

SOFTWARE TESTING

(Computer Science &amp; Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Differentiate Testing and Debugging 6M  
 b Write short notes on the following: 6M  
 i) Path Sensitization. ii) Path Instrumentation

OR

- 2 State and Explain various Dichotomies in Software Testing 12M

**UNIT-II**

- 3 How do we find dataflow anomalies explain about suitable example & list out the various applications of data flow testing? 12M

OR

- 4 a Explain about births and merges in transaction flow testing. 6M  
 b Define flow graph. Write any one application of flow graph. 6M

**UNIT-III**

- 5 a Write short notes about Domains and Testability. 6M  
 b Explain about encoding bugs in domain testing. 6M

OR

- 6 a Explain the concept of Domains and Interface testing. 6M  
 b What is flow anomaly detection, discuss with an example 6M

**UNIT-IV**

- 7 Write down the steps for Reduction procedure and solve it with an example. 12M

OR

- 8 Explain the concept of Paths, Path products and Regular expressions with an example 12M

**UNIT-V**

- 9 a Explain about State Testing and its principle. 6M  
 b What is graph matrices and discuss about their applications? 6M

OR

- 10 a Describe the concept of Good & Bad State Graphs. 6M  
 b Write short notes on the following 6M  
 i. State Graphs  
 ii. State Table

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