

Code No: 09A70502

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, May/June - 2013

Software Testing Methodologies

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

1. What is a bug? Give the taxonomy of bugs. Discuss the consequences of bugs. [15]
- 2.a) What is meant by achievable path? Explain with illustrations.
b) Discuss the applications of path testing. [7+8]
3. Explain the basics of data flow testing and the strategies in data flow testing. [15]
- 4.a) Explain nice and ugly domains with examples.
b) Discuss testability of domains and interfaces. [7+8]
5. What is a regular expression? Explain its role in flow anomaly detection with suitable examples. [15]
- 6.a) Write about kv-chart.
b) Discuss the significance of decision tables in logic based testing. [7+8]
7. What is meant by transition testing? With suitable state graphs explain transition testing. [15]
- 8.a) How do you represent graphs in matrix formats? Discuss with examples
b) Explain node reduction algorithm.
c) What is meant by power of a matrix. [15]

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