

Code No.: 09A70502/R09

Jawaharlal Nehru Technological University, Hyderabad

B.Tech IV Year I Semester Examinations

May/June - 2013

SOFTWARE TESTING METHODOLOGIES

(Common to CSE, IT)

R09

Time: 3 Hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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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]