

Code No: 57047

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November - 2015

SOFTWARE TESTING METHODOLOGIES

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions

All Questions Carry Equal Marks

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- 1 a) How software testing will ensure the quality of a developed software? Explain. [7+8]
- 2 a) How a programs control structure can be represented graphically? Explain with the help of required diagrams. [8+7]
- 3 a) How an Anomaly can be detected? Explain different types of data flow anomalies and Data flow anomaly state graphs. [7+8]
- b) Define a transaction and explain how does transaction flows occur? Give suitable examples.
- 4 a) What is the purpose of Domain Testing? Give its schematic representation. [7+8]
- b) What is meant by a nice domain? Give an example for nice two-dimensional domains.
- 5 What are the steps involved in node reduction procedure? Illustrate all the steps with help of neat diagrams. [15]
- 6 a) Write the procedure for specification validation using KV charts. [7+8]
- b) How can we check the consistency and completeness in the decision tables? Explain.
- 7 a) What are principles of state testing? Explain its advantages and disadvantages. [7+8]
- b) Differentiate between good state graphs and bad state graphs.
- 8 a) Illustrate the applications of node reduction algorithm and explain. [7+8]
- b) Write the relative merits and demerits of different graph matrix representations.

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