

R17**Code No: 845AB****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, October/ November - 2020****SOFTWARE TESTING METHODOLOGIES****Time: 2 Hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

- 1.a) What is path testing? With an example explain the constraints and consequences of path testing.
- b) Explain about any five types of structural bugs. [7+8]
- 2.a) List and explain different transaction flow testing strategies.
- b) Differentiate between static and dynamic program slicing. [7+8]
- 3.a) What is the purpose of domain testing? What are its applications? Discuss.
- b) Discuss about flow anomaly detection. [7+8]
- 4.a) What is the procedure for specification validation using KV charts? Illustrate.
- b) With examples, explain KV charts for two variables and three variables. [7+8]
- 5.a) What are the applications of node reduction algorithm? Discuss.
- b) Write short notes on JMeter Tool and its benefits. [7+8]
- 6.a) Explain about traversal marker form of path instrumentation.
- b) Illustrate about various flow graph elements with their notations. [7+8]
- 7.a) What are the applications of data flow testing?
- b) How data flow testing is useful in fulfilling the gaps in path testing? Explain. [7+8]
- 8.a) State Huang's theorem and explain its implementation details.
- b) What are the applications of paths, path products and regular expressions? Explain. [7+8]

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