

Code No: 845AB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, February - 2022****SOFTWARE TESTING METHODOLOGIES****Time: 3 Hours****Max.Marks:75**

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) What are the consequences of bugs? Explain.
b) Explain about path predicates and achievable paths. [7+8]
- 2.a) Write about the taxonomy of bugs.
b) What is path testing? What are its applications? Discuss. [7+8]
- 3.a) What is meant by transaction flow testing? Explain its significance.
b) Explain data-flow testing with an example. Write its limitations. [7+8]
- 4.a) Differentiate between nice and ugly domains with examples.
b) What is Interface testing? Explain interface testing techniques. [7+8]
- 5.a) Discuss about regular expressions and flow-anomaly detection.
b) Write the procedure to count minimum number of paths in a graph. [7+8]
- 6.a) What is the procedure for specification validation? Explain.
b) What is logic based testing? Explain KV-Chart and draw the KV-chart for 4 variables. [7+8]
- 7.a) Explain state testing techniques in detail.
b) What are the guidelines used to design state machines? Discuss. [7+8]
- 8.a) Explain the node reduction algorithm with an example.
b) Discuss about various testing tools necessary for testing. [7+8]

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