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R15 Code No: 126VR JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, April - 2018 SOFTWARE TESTING METHODOLOGIES (Common to CSE, IT) Time: 3 hours Max. Marks: 75 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. (25 Marks) What is meant by testing? Why we need it 1.a) [2] b) Define a model for software testing. [3] Explain various loops. Give example for each. c) [2] Write the applications of data flow testing. d) In what a nice domain differs from and ugly domains. f) Define domain testing with example. [3] g) Explain Regular Expressions. [2] Explain sum of product form and product of sum form. h) [3] i) Define good state and bad state graphs. [2] How can the graph be represented in Matrix form? j) [3] (50 Marks) State and explain various dichotomies in software testing. 2. [10] 3.a) What is meant by program's control flow? How is it useful for path testing? b) Discuss various flow graph elements with their notations: What is meant by transaction flow testing. Discuss its significance. b) Compare data flow and path flow testing strategies. [5+5] 5.a) Explain data-flow testing with an example. Explain its generalizations and Limitations b) Explain the terms Dicing, Data-flow and Debugging. [5+5]State and Explain various restrictions at domain testing processes. 6.a) With a neat diagram, explain the schematic representation of domain testing. 7. Discuss the domains and interface testing in detail. [10]

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