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

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Write Short Notes on following: 8. a) Distributive Laws b) Absorption Rule c) Loops d) Identity elements. 9. Reduce the following functions using K-Maps [10] F(A,B,C,D) = P(4,5,6,7,8,12,13)+d(1,15)10.a) Write testers comments about state/graphs. Explain about good state and bad state graphs. What are graph matrices and their applications? Explain in detail. [10] 11. ___00O00---