Code No: 126ER JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, April - 2018 SOFTWARE TESTING METHODOLOGIES (Common to GSE, IT)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD			
A Time:	B. Tech III Year II Semester Examinations, April - 2018 SOFTWARE TESTING METHODOLOGIES A hours One of the common to CSE, IT Max.	Marks: 75	A
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			
AG.	10 marks and may have a, b, c as sub questions. PART-A	i AG	A
	(25 Marks)		
f) g) h)	What is meant by testing? Why we need it Define a model for software testing. Explain various loops. Give example for each. Write the applications of data flow testing. In what a nice domain differs from and ugly domains. Define domain testing with example. Explain Regular Expressions. Explain sum of product form and product of sum form. Define good state and bad state graphs.	[2] [3] [2] [3] [2] [3] [2] [3] [2]	A
	How can the graph be represented in Matrix form? PART B A A A A B A A B A A A A A	[3] 50 Marks)	A
2.	State and explain various dichotomies in software testing. OR	[10]	
3.a) b) 4.a) b)	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. Compare data flow and path flow testing strategies. OR	[5+5]	A
5.a) b)	Explain data-flow testing with an example. Explain its generalizations and Li Explain the terms Dicing, Data-flow and Debugging.	imitations [5+5]	
6.a) b)	State and Explain various restrictions at domain testing processes. With a neat diagram, explain the schematic representation of domain testing.	[5+5]	A

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Discuss the domains and interface testing in detail.

[10]

Write Short Notes on following: 8. a) Distributive Laws b) Absorption Rule c) Loops d) Identity elements. Reduce the following functions using K-Maps 9. [10] F(A,B,C,D) = P(4,5,6,7,8,12,13) + d(1,15)Write testers comments about state/graphs: 10.aExplain about good state and bad state graphs. [10] What are graph matrices and their applications? Explain in detail. 11. \triangle 00 \overline{O} 00---