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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B: Fech III Year II Semester Examinations, May - 2016
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.

## PART - A

Define testing and debugging	**************************************	(25 Marks)	X X X X X X X X X X X X X X X X X X X
<ul><li>1.a) Define testing and debugging.</li><li>b) What are the elements of flow graph?</li><li>c) What is Data-flow testing?</li></ul>		[2] [3] [2]	
d) Give an example of a transaction-flow.	* × × × ×	[3] [2] [3]	X
g) What is domain testing?  f) Define linear vector space	** **** * * **	[2]	X X X X X
<ul><li>h) Give examples of four variable KV-chart.</li><li>i) Define state-transition table.</li><li>j) What is partial ordering relation?</li></ul>		[3] [2] [3]	٠
K9 K9 K9 PART - B	X	K9	* * * * * * * * * * * * * * * * * * *
		(50 Marks)	
<ul><li>2.a) Distinguish the following:</li><li>i) Function vs structure</li></ul>			
b) How should you go about quantifying the nightmare? Expl	lain.	[5+5]	k. e
<ul><li>3.a) Is complete testing possible? Explain.</li><li>b) What are the three kinds of loops? Explain with example.</li></ul>		[5+5]	
4.a) Describe the complications of transaction flows:  b) What are data-flow anomalies? Explain.	****	[5+5]	* * * * * * * * * * * * * * * * * * *
OR 5.a) Define transaction flow testing. Explain transaction flow s	tructure.		
b) Explain about the data-flow model with example.		[5+5]	
6.a) What are the restrictions of domain testing? Explain. b) How to test two-dimensional domains? Explain. OR	K9	[5+5]	
<ul><li>7.a) What is the strategy of domain testing? Explain in brief.</li><li>b) Discuss about domains and testability.</li></ul>		[5+5]	
K9 K9 K9 K9	X		* * * * * * * * * * * * * * * * * * * *

***** ******* * ****	8.a) Explain about the mean processing time of a routine with example: b) Justify the following statement: "Decision tables can also be used to examine a program's structure".  OR						
	b) What a 10. Explai a) Imp b) Nu	in Push/Pop arith are the rules of B in the following: bact of bugs in standard of states in perties of relation	soolean algebra?  ate testing a state graph.		K9	[5+5]	
9	11: Expla	in the following: tware implement plications of grap	tation of state gra	phs.	K9	[5+5]	KS
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