R13

Code No: 126ER

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, December - 2017 SOFTWARE TESTING METHODOLOGIES

	Community CSE ITY							
Time:	3 hours (Common to CSE, IT)	Max. Mar	ks: 75					
Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questic consists of 5 Units. Answer any one full question from each unit.							
	10 marks and may have a, b, c as sub questions. PART - A	81	3					
	(25 Ma							
1.a) b) c) d) e) f) g) h) i)	Define structural testing. What are remedies for test bugs? Explain. Give an example of forgiving Data Flow anomaly state graph. Explain about path selection in transaction-flow testing. What is domain testing? Where do domains come from? Write absorption rule. What goes wrong with predicates? What is the problem with pictorial graphs? Explain state-transition table with example. PART - B		[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]					
		(50 N	Marks)					
2.a) b)	Explain link markers and link counters with example. Discuss about integration, interface and system bugs. OR		[5+5]					
3.a) b)	What are cases for single loop? Explain with examples. Distinguish between testing and debugging.	SR	[5+5]					
4.a)	Why isn't static analysis enough? Why is testing required? Could not a vastly expanded							
b)	language processor detect anomalies? Explain about sensitization in transaction-flow testing. OR		[5+5]					
5.a) b)	Describe application, tools and effectiveness of data-flow testing. Discuss about transaction-flow structure.		[5+5]					
6.a) b)	Explain about testing two-dimensional domains. Discuss about closer compatibility and span compatibility. OR		[5+5]					
7.a) b)	What are ugly domains? How testers and programmers treat them. Explain about linearizing and coordinate transformations.	, 20	[5+5]					

8.a) b)	Explain loop term step in a reduction procedure with example. Discuss about decision tables and structure with example.					[5+5]	
9.a) b)							
10.a) b)	What is equivalent state? Explain in detail. Explain about node-reduction algorithm.					[5+5]	
11.a) b)	contradiction	nple to illustrate h s can come about t win-runner testi		specification into	a state graph ar	nd how [5+5]	
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