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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Information Science and Engineering Semester End Examination; June - 2017 Software Testing

		Software 1	O			
	ne: 3 hrs		Max. Marks: 100			
No	te: Answer FIVE	full questions, selecting ONE U NIT				
1 a	Briefly avalain th		the process of programming and testing.	8		
	• •			o		
υ.		ving terms with example for each		4		
	i) Completeness	ii) Consist	•	4		
	iii) Usability	iv) Perform		0		
	• •	ne different types of test metrics		8		
	·	_	sting of complex software systems.	1(
b.	•	5 1	the testers in the analysis of a program to	1(
	understand its be	havior in terms of the flow of c	ontrol with relevant examples?			
		UNIT	- II			
3 a.	What is boundar example.	y value analysis? Explain the p	procedure for BVA by considering your own	10		
b.	1	ne category - partition approach	to the generation of tests from requirements.	10		
	•	5 1	imple. List the generic procedure used for the	10		
0.	-		and show the notations used in cause-effect	10		
	graphing.	using cause effect graphing	and show the notations used in cause circuit	11		
	graphing.	UNIT	_ III			
	What is structura			1(
	What is structural testing? Explain condition testing and path testing with example. List out the infeasibility problem in the structural testing.					
	• •					
	What is definition-clear path? Explain definition-use pairs by considering your own example. Explain how dataflow testing handles with complex structures. Discuss any four dataflow					
) a.	_	allow testing nancies with cor	npiex structures. Discuss any four dataflow	10		
	testing criteria.	M 1 1 1 1 1		1.		
b.	Explain the datat	low analysis with arrays and po		1(
		UNIT	- IV			
7 a.	Define the follow	ving:				
	i) Test case	ii) Test case specification	iii) Test obligation.	10		
	iv) Test suite	v) Test or test execution	vi) Adequacy criterion.			

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b.	What is scaffolding? Distinguish between generic and specific scaffolding.		10
8 a.	Describe the test oracles with a neat diagram.		10
b.	Compare adequacy criteria and comparing criteria.		10
	UNIT - V		
9 a.	Explain in detail the integration faults with example for each type.		10
b.	Describe the following terms:		
	i) Regression Test selection Techniques		10
	ii) System testing.		
10.	Write short notes on:		
	i) Technology risk and Executions risk		
	ii) Internal and external consistency check		20
	iii) Acceptance testing		
	iv) Improving the process.		

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