ADAR Rohama

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USN		10	6MCA43
		Fourth Semester MCA Degree Examination, June/July 2018	3
		Software Testing and Practices	
Tim	ie: 3	hrs. Max. M	arks: 80
		Note: Answer FIVE full questions, choosing one full question from each modul	e.
		Module-1	
1	a.	Explain error, faults and failures in the process of programming and testing with	a diagram.
			(10 Marks) (06 Marks)
	b.	Describe Quality attributes of software testing.	(00 Marks)
		OR	ritaria and
2	a.	Explain the basic principles of Analysis and testing and describe adequacy comparison criteria.	(10 Marks)
	b.	Discuss the various test generation strategies in brief.	(06 Marks)
		Module-2	Ŭ.
3	a.	Describe the implementation of NEXTDate function.	(10 Marks)
	b. '	Explain the levels of testing found in waterfall model.	(06 Marks)
		OR	
4	a.	Describe the specified, implemented and tested behavior with the help of Venn d	iagram and
	1.	discuss each of them. Write the algorithm for triangle problem.	(10 Marks) (06 Marks)
	b.		(00)
_		Module-3 Illustrate with appropriate diagrams, the mechanism to generate test cases in	BVA for a
5	a.	function of two variables in	
		(i) Robustness Testing	
		(ii) Worst – Case Testing	(10 Maylea)
		(iii) Robust Worst Case Testing. Write the test cases for NEXTDate function using boundary value analysis.	(10 Marks) (06 Marks)
	ъ.		(00)
		OR Write test cases for a commission problem using equivalence class Testing.	(10 Marks)
6	a. b.	Illustrate the usage of decision table method to devise test cases for a triangle pro-	
	0.		(06 Marks)
		Module-4	
7	a.	Draw a program graph and DD path graph for a triangle problem.	(10 Marks)
	b.	Explain McCabe's basis path method with an example.	(06 Marks)
		OR	(10 M
8	a.	Discuss the types of test coverage metrics in detail. Explain traditional view of testing levels and alternative life cycle models	(10 Marks) (06 Marks)
	b.		(00)
_		Module-5 Resulting Commercial Activities and Provided Resulting Season Commercial Activities and Provided Resulting Seaso	(07 Marks)
9	a. b.	Explain Scaffolding. Compare between generic versus specific scaffolding. Explain any five major activities in a planning and monitoring the process.	(07 Marks) (09 Marks)
	υ.	OR	•
10		Describe test oracles and self checks as oracles.	(10 Marks)
10	a.	the set of rest of rested from settle and settle and settle settl	(0.6 % 7 1)

b. Illustrate mutation analysis with its variants. * * * * (06 Marks)