CBCS Scheme

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US	SN		16MCA43
Fourth Semester MCA Degree Examination, June/July 2018			
Software Testing and Practices			
Time: 3 hrs			
		Note: Answer FIVE Call and a constant of the c	Marks: 80
Note: Answer FIVE full questions, choosing one full question from each module.			
1		Module-1	
1	a	Explain error, faults and failures in the process of programming and testing w	ith a diagram.
	b		(10 Marks)
			(06 Marks)
2	a.	Explain the basic principles of Applying	
		Explain the basic principles of Analysis and testing and describe adequacy	
	b.		(10 Marks)
		Module-2	(06 Marks)
3	a.	Describe the implementation of NEXTDate function	(1037 6
	b.	Explain the levels of testing found in waterfall model.	(10 Marks) (06 Marks)
()	(0)	OR	OF D
4	⇒a.	Describe the specified, implemented and tested behavior with the help of Verne	(Hagram and
J) 34	b.	Library each of them.	(10 Marks)
	υ.	Write the algorithm for triangle problem.	(06 Marks)
5		Module-3	
5	a.	Illustrate with appropriate diagrams, the mechanism to generate test cases in function of two variables in	n BVA for a
		(i) Robustness Testing	
		(ii) Worst – Case Testing	
	1	(iii) Robust Worst Case Testing.	(10 Marks)
	b.	Write the test cases for NEXTDate function using boundary value analysis.	(06 Marks)
		OR	
6	a. b.	Write test cases for a commission problem using equivalence class Testing.	(10 Marks)
	υ.	Illustrate the usage of decision table method to devise test cases for a triangle pro-	oblem.
			(06 Marks)
7	a.	Draw a program graph and DD and 15	
	b.	Draw a program graph and DD path graph for a triangle problem.  Explain McCabe's basis path method with an example.	(10 Marks)
			(06 Marks)
8	a.	Discuss the types of test coverage metrics in detail.	
	b.	Explain traditional view of testing levels and alternative life cycle models.	(10 Marks)
		The state of the s	(06 Marks)
9	a.	Explain Scaffolding. Compare between generic versus specific scaffolding.	
	b.	Explain any five major activities in a planning and monitoring the process.	(07 Marks)
		and monitoring the process.	(09 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross fines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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a. Describe test oracles and self checks as oracles.b. Illustrate mutation analysis with its variants.

(10 Marks) (06 Marks)