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## Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Software Testing**

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting				
Note: Answer FIVE full questions, selecting at least TWO questions from each part.				
		$\underline{PART} - \underline{A}$		
1	a.	Explain with a neat diagram testing and debugging cycle.	(08 Marks)	
	b.	How do you measure software quality? Discuss correctness versus reliability pe	rtaining to	
		program.	(08 Marks)	
	c.	What is black box testing? How is it differing from white box testing?	(04 Marks)	
2	a.	Explain decision table testing and generate test cases for triangle problem usin	g decision	
		table.	(08 Marks)	
	b.	Briefly explain weak normal and strong robust equivalence class testing with	next date	
		problem as an example.	(08 Marks)	
	c.	With neat figure, explain about,		
9		(i) Robustness testing	(0.1.7.7	
		(ii) Worst case testing	(04 Marks)	
			(10.75 )	
3	a.	Design a program graph and DD-path graph for the commission program.	(10 Marks)	
	b.	Explain Millers test metrics which are based on program graphs.	(05 Marks)	
	C.	What is Slice testing? Explain about style and technique to find slice of program.	(05 Marks)	
727		D. J. L. L. W. w. interesting strategies	(10 Marks)	
4	a.	Describe top down and bottom up integration strategies.	(10 Marks)	
	b.	Explain the simple ATM application with the help of,  (i) Level 1 data flow diagram.		
		<ul><li>(i) Level 1 data flow diagram.</li><li>(ii) Upper level finite state machine.</li></ul>	(10 Marks)	
		(II) Opper lever time state macrime.	(20 1.2)	
		PART - B		
5	a.	Define the below terms:		
_	ч.	(i) MM-path (ii) Data (iii) Actions (iv) Ports.	(08 Marks)	
	b.	What is interaction testing? Explain four basic types of interactions?	(07 Marks)	
	c.	Write short note on client / server testing.	(05 Marks)	
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6	a.	Explain sensitivity and redundancy.	(06 Marks)	
	b.	What is dependability in software quality control? Briefly discuss the de-	pendability	
		properties in process framework.	(07 Marks)	
	C.	Why organizational factors are needed in process framework?	(07 Marks)	
7	a.	What is fault based testing? What are the assumptions in the fault base testing?	(07 Marks)	
	b.	What is scaffolding? Explain briefly generic versus specific scaffolding.	(07 Marks)	
	c.	What are test oracles? Explain comparison based oracles.	(06 Marks)	

Explain clean room process, with neat diagram.

Explain risk management in the quality plan.

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