

## Sixth Semester B.E. Degree Examination, Aug./Sept.2020 **Software Testing**

Time: 3 hrs. Max. Marks:100

No	te:	Answer any FIVE full questions, selecting atleast TWO questions from ea	ch part.
		PART - A	
1	a.	Define followings:	
			(06 Marks)
	b.	1 1	(10 Marks)
	C.	Develop simple venn diagram that clarifies program behaviour.	(04 Marks)
2	a.	Develop a formula for number of worst case test cases for function of two variab	les? What
			(06 Marks)
	b.	Define following:	
		(i) Weak normal equivalence class testing	
		(ii) Strong normal equivalence class testing	
		(iii) Weak robust equivalence class testing	(00 ) / 1 )
		` / 0	(08 Marks)
	C.	Explain decision table based testing by taking an example of triangle problem.	(06 Marks)
3	0	Define Test Coverage Metrics.	(06 Marks)
	a. b.	Considering an example of commission problem. Write a statement pseudocod	
	υ.	•	(14 Marks)
		paths and program graph of commission problem.	(14 marks)
1	a.	With neat diagram explain various SATM screens?	(06 Marks)
	b.	Write in brief about decomposition based integration?	(06 Marks)
	C.	Explain comparison of Integration Testing Strategies.	(08 Marks)
		PART – B	
5	a.	Explain basic concepts for requirement specification.	(10 Marks)
)	b.	What are the taxonomy of interaction? Explain any two in brief.	(10 Marks)
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6	a.	Briefly discuss:	
		(i) Degree of freedom (ii) Restriction	
		(iii) Sensitivity (iv) Redundancy	(10 Marks)
	b.	Describe the dependability properties in detail. Draw relations among dep	pendability
		properties.	(10 Marks)
7	a.	List Mutation Analysis Terminologies.	(05 Marks)
	b.	What is scaffolding? Describe generic and specific scaffolding.	(06 Marks)
	C.	Explain terms (i) Test oracles (ii) Self-check as oracles (iii) Capture and Replain	ay.
			(09 Marks)
8		Write short note on:	
U	a.	Quality Team	
	h.	Organizing Documents	

- b. Organizing Documents
- Test and Analysis Report
- d. Risk Planning.

(20 Marks)