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Eighth Semester B.E. Degree Examination, July/August 2022 **Software Testing**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

		INO	ote: Answer any FIVE juit questions, selecting at least IVO questions from each p	, ur i.			
			PART - A				
	1	a.	Define the following with a testing life cycle:				
			(1) 21101	(07 Marks)			
1		b.		(06 Marks)			
		c.	Discuss the triangle problem and show the flowchart for the triangle	program			
3			implementation.	(07 Marks)			
	2	a.	Explain how boundary value analysis can be performed with an example. Id	lentify its			
3	_		limitation.	(07 Marks)			
=		b.	Identify the revised equivalence classes for NextDate function and generate the	36 strong			
, ,			normal equivalence test case.	(06 Marks)			
0		c.	What is DT-testing? Generate the test case for the triangle problem using DT-based	l testing.			
- 7 †				(07 Marks)			
â	3	a.	Develop the DD-path graph for the triangle problem.	(08 Marks)			
		b.	Explain briefly E.F. Miller structural Test Courage Metrics.	(07 Marks)			
*	c. Define the following for a program graph G(p) and a set of variable 'V' using example						
SIIO			(i) Defining node of variable				
lnan l			(ii) Usage node variable				
ಕ =			(iii) Predicate use node variable				
) D			(iv) Definition use path with respect to variable	(05 Marks)			
n ar			(v) Definition clear path with respect to variable.	(05 Marks)			
Inan	4	a.	DAPIMII dood bperinement of the	(06 Marks)			
5 8		b.	Draw Context diagram, Entity Relationship Model, decomposition tree for SATM	System.			
0			20. 10mm	(06 Marks) (08 Marks)			
revealing of identification, appeal to evaluator and /or equations withten eg. +2.1 o = 50, will be usated as marphased		c.	Explain Top-down and Bottom-up integration testing with necessary diagram.	(UO Marks)			
Ē,			PART - B				
atio	5	a.	Discuss in brief the basic concepts for requirement specification with E/R mode	of Basic			
1111		6	concept and moderning relationships subtractionships	(10 Marks)			
ıden		b.	Explain different types of states and a justific an	(06 Marks)			
0 2		c.	Write a short note on client/server testing.	(04 Marks)			
guile	6	a.	With a neat diagram, differentiate between validation and verification in testing.	(07 Marks)			
eve	U	a. b.	Explain the following analysis and testing principle:	•			
		0.	(i) Sensitivity (ii) Redundancy (iii) Restriction (iv) Visibility	(08 Marks)			
2. Any		c.	Discuss briefly the dependability properties	(05 Marks)			
	_		CMRIT LIBRARI	(06 Marks)			
	7	a.	Explain assumptions in Fault-Based Testing. BANGALORE - 560 (137) Congress versus appeific scaffolding briefly	(00 Marks)			
		b.	Define scaffolding. Discuss Generic versus specific scaffolding briefly. What is test oracles? Explain briefly the different types of oracles with relevant dia	1.5			
		c.	What is test ofacies (Explain officing the different types of ofacies with fore-time and	(07 Marks)			
	ρ		Write short notes on the following:				
	8	a	Ouality and processes b. Risk planning				
		a. c.	The state of the s	(20 Marks)			
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