GBGS SCHEME

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## Sixth Semester B.E. Degree Examination, Feb./Mar. 2022 Software Testing

Time: 3 hrs.

INSTITUTE OF

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	1 1		
		Module-1	
1	a.	Define the following:	
		i) Error ii) Fault iii) Failure iv) Incident v) Test vi) Test case.	(06 Marks)
	b.	Explain in portrays of software testing life cycle.	(04 Marks)
	C.	Explain the two fundamental approaches used to identify test cases.	(06 Marks)
		OR	
2	a.	List six types of faults and explain each with example.	(06 Marks)
	b.	Identify problem statement for a triangle with flowchart for traditional implement	ation.
			(05 Marks)
	C.	Describe the GUI application currency converter and embedded device Saturn	(05 Marks)
		wiper controller.	(03 Marks)
		Module-2	
3	a.	Explain the usage of Boundary value analysis for a function of two variables an	nd highlight
		the limitations of Boundary value analysis.	(08 Marks)
	b.	Explain weak normal, strong normal weak robust and strong robust equivalence	class testing
		with example.	(08 Marks)
		OR	
4	a.	Explain the format of decision table. Build decision table for simple version	of triangle
7	a.	problem.	(08 Marks)
	b.	Explain fault based testing and mutations analysis with terminologies.	(08 Marks)
		Module-3	
5		What is program graph? Draw program graph for triangle problem.	(08 Marks)
3	a. b.	Define DD-path. Draw the DD-path graph for triangle problem.	(08 Marks)
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	_	OR	(06 Marks)
6		Explain predicate node, du-paths and dc-paths. What is scaffolding? Explain the purpose of scaffolding.	(05 Marks)
	b.	What is test oracle? Explain self-check oracle with a neat diagram.	(05 Marks)
	C.		
	_	Module-4  No de la Parlament Visibility and Feedback	(08 Marks)
	7 a.	Explain Sensitivity, Redundancy, Visibility and Feedback.	(08 Marks)
	b.		
		OR	(08 Marks)
	8 a	Explain the five core steps of SRET with a neat diagram.	(08 Marks)
4	b	•	(00 1/141145)
		Module-5	(08 Marks)
	9 a	Explain integration testing strategies.	(08 Marks)
	b		(00 1/181110)
		OR	(00 ) //
	10 0	Evaloin alternative life cycle models	(08 Marks)

10 a. Explain alternative life cycle models.
b. Explain call graph-base integration.
(08 Marks)

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