## CBCS SCHEME

USN						17CS552
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## Fifth Semester B.E. Degree Examination, Feb./Mar. 2022 Introduction to Software Testing

Tin	ne: 3 l	hrs. Max. M	Marks: 100
	Noi	te: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a. I	Explain Testing and debugging life cycle with a neat diagram.	(10 Marks)
		Define the following terms of software testing:	(10111111)
		) Error ii) Fault iii) Failure iv) Incident v) Testcase.	(10 Marks)
		OR	
2	a. l	Explain the two fundamental approaches for identifying test cases.	(12 Marks)
	b. 1	Explain different levels of testing.	(08 Marks)
		Module-2	
3		Write a pseudocode for improved version of Next Date problem.	(10 Marks)
		Explain:	
		Boundary value analysis	
	1	i) Robustness Testing.	(10 Marks)
		OP.	
4	0 1	OR What are decision tables? Draw the decision table for triangle problem.	(10 Massles)
4		Write a pseudocode for improved version of triangle problem.	(10 Marks) (10 Marks)
	υ.	write a pseudocode for improved version of triangle problem.	(10 Marks)
		Module-3	
5	a.	Explain Fault Based Adequacy criteria.	(10 Marks)
		Explain statement testing and condition testing.	(10 Marks)
		OR	
6	a.	Define the following:	
	4	i) DEF (v, n) ii) USE (v, n) iii) P-use iv) C-use v) Du-path.	(10 Marks)
	b. /	Explain Test Coverage Metrics.	(10 Marks)
	Y		
		Module-4	
7		Write a short notes on:	
		Scaffolding	
		Test oracles.	(10 Marks)
		Explain the following principles:  (i) Sensitivity: (ii) Redyndanay: (iii) Restriction: (iv) Partition: (v) Visibi	lity
		i) Sensitivity ii) Redundancy iii) Restriction iv) Partition v) Visibi	(10 Marks)
			(TO MINITO)

## **OR**

8	a.	Explain:	
		i) Cleanroom process model	
		ii) Extreme Programming (XP)	(10 Marks)
	b.	Explain the following:	
		i) Risk planning	-
		ii) Process monitoring.	(10 Marks)
		Module-5	
9	a.		
		i) Acceptance Testing	
		ii) Regression Testing	(10 Marks
	b.	Explain different integration testing strategies.	(10 Marks
		OP	
10	0	OR  Explain decomposition based integration	(10 Marks
10	a.	•	(10 Marks
	b.	Explain can Graph-Based integration.	(10 Marks
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