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USN	mester B.E. Degre	

18IS62

(10 Marks)

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024
Software Testing

Time: 3 hrs.

Max. Marks: 100

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

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		· · · · · · · · · · · · · · · · · · ·	
ı	a.	Define the following: i) Error ii) Module-1 Fault iii) Failure iv) Incident v)	Test care.
	и.	beinie the foliowing: 1) East,	(05 Marks)
	b.	List and explain important error and fault taxonomic.	(05 Marks)
	C.	Explain Testing and Debugging Life Cycle, with a neat diagram.	(10 Marks)
		OR	(10 30 - 1 -)
2	a.	Write a pseudo code for structured programming version of triangle programme.	(10 Marks) (10 Marks)
	b.	Explain different types of Software test metrics in detail.	(10 Marks)
		Module-2	
3	a.	Explain Boundary value analysis, with any one suitable example.	(10 Marks)
0	b.	Explain the following Equivalence testing types:	
		i) Weak Normal ii) Strong Normal iii) Weak Robust iv) Strong	ng Robust.
			(10 Marks)
		OR	(10 Mayles)
4	a.	Explain the Decision Table – Based Testing with any one suitable example.	(10 Marks) (05 Marks)
	b.	Explain Fault Based Adequacy Criteria.	(05 Marks)
	C.	Explain Mutation Analysis Terminologies	(05 1141 K3)
		Module-3	
5	a.	Write a triangle program. Draw the program graph and find the DD paths, DD pat	h graph.
3			(10 Marks)
	b.	Explain Mc Cabe's basis path testing method with an example.	(10 Marks)
		OR	
6	a.	Define Scaffolding. Explain Generic versus Specific Scaffolding.	(10 Marks)
	b.	Define Test Oracle. Explain with a neat diagram the concept of test harness.	(10 Marks)
		Madula 4	
_		Explain the following principles: i) Sensitivity ii) Redundancy	
1	a.	Explain the following principles: i) Sensitivity ii) Redundancy iii) Partition iv) Visibility v) Feedback.	(10 Marks)
	h	List and explain dependability properties with examples.	(10 Marks)
	b.	List and explain dependanting properties with examples.	
		OR .	
8	a.	Explain the following:	
		i) Risk Planning ii) Monitoring the process.	(10 Marks)

ii)

Test design specification document.

Write a short note on:

i) Organizing documents

Module-5

9 a. What is System Acceptance and Regressing Testing? Explain briefly. (10 Marks)

b. Write context diagram and Level 1 dataflow diagram of SATM system.

(10 Marks)

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10 a. What is Call – Graph based integration testing? Explain the strategies under call based integration testing. (10 Marks)

b. Explain the path based integration testing.

(10 Marks)