

Time:

3 hrs

Eighth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Software Testing

Max. Marks:100

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

		PART – A
1	a.	Define the following: i) Error ii) Fault iii) Failure iv) Incident v) Test case. (05 Marks)
-	b.	Difference between functional testing and structured testing. (08 Marks)
	c.	Explain the triangle problem statement along with flow chart for traditional implementation.
		(07 Marks)
2	a.	Explain about boundary value analysis and mention its limitations. (04 Marks)
	b.	Explain weak normal and strong robust equivalence class testing with next data problem an example. (04 Marks)
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	c.	With neat figure, explain about: i) Robustness testing ii) Worst case testing. (06 Marks)
	d.	Discuss the usage of decision table method to device test cases with example of commission
	u.	problem and triangle problem. (06 Marks)
		problem and triangle problem.
3	a.	Write a structured triangle program draw the program graph and find the DD paths, DD path
		graph for the triangle program. (08 Marks)
	b.	Explain test coverage metrics and basis path testing with example. (08 Marks)
	c.	Explain Slice based testing guidelines and observation in detail. (04 Marks)
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4	a.	Explain the decomposition based integration with an example. (06 Marks)
	b.	Briefly explain about SATM system, draw the context diagram, ER model and decomposition tree for SATM system. (08 Marks)
	c.	Explain about path-based integration. (06 Marks)
	C.	Explain about pain-based integration.
		PART – B
_		Briefly explain about functional strategies for thread testing. (10 Marks)
5	a.	Briefly explain about functional strategies for thread testing. (10 Marks) Explain taxonomy of interactions, interaction, composition and determinism in software
	b.	testing. (10 Marks)
		testing.
6	a	With a neat diagram, explain the relation of verification and validation activities with respect
	6	to artifact produced in software development project. (08 Marks)
	b.	Explain six principles that characterize various approaches and technique for analysis and
		attesting. (12 Marks)
7	a.	Define scaffolding distinguish between Generic versus Specific scaffolding briefly. (08 Marks)
	b.	Explain about: i) Test oracles ii) Capture and relay iii) Test cases. (12 Marks)
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Write a short note on the following:

a. Quality goal

b. Test and analysis strategies and plan

c. Test planning

d. Quality and processes.

(20 Marks)

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