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## Sixth Semester B.E. Degree Examination, June/July 2017 Software Testing

Time: 3 hrs. Max. Marks:100

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

## PART - A

	a. b. c.	Explain the two fundamental approaches used to identify test cases.  Define the terms: i) error ii) fault iii) failure iv) incident v) test case.  Write pseudo-code for commission problem.	(08 Marks) (05 Marks) (07 Marks)
	a. b. c.	Explain weak robust and strong robust equivalence class testing, considering enext date problem.  Explain decision table and its technique to solve triangle problem.  Write short note on worst case testing.  Explain different test case coverage metrics.	example of (08 Marks) (08 Marks) (04 Marks)
	a. b. c.	Explain different test case coverage metrics.  Explain different define/use testing definitions.  Draw diagram for data flow coverage metrics of Rapps/Weyuker.	(10 Marks) (02 Marks)
	a. b. c.	Explain traditional view of testing levels and rapid prototyping life cycles. With an example, explain top-down integration and bottom-up integration. Explain the terms: i) source node ii) sink node iii) module execution path iv) MM	(10 Marks) (06 Marks) (-path. (04 Marks)
PART – B			
	a. b.	Explain the basic concepts of requirements specification.  Explain static interactions in a single processor and static interactions in multiple  Write note on client/server testing.	(10 Marks) processors. (06 Marks) (04 Marks)
	a. b.	Explain: i) degrees of freedom ii) sensitivity iii) redundancy iv) restriction v) part With a neat diagram, explain the validation and verification activities check we against actual user requirements.	(10 Marks)
,	a. b. c.	Explain in detail mutation analysis and variations on mutation testing. Write note on: i) Test oracles ii) Capture and replay. What is scaffolding? Explain.	(10 Marks) (06 Marks) (04 Marks)
3	a. b.	Write note on:  i) Risk planning  ii) Improving the process  iii) Organizing documents  iv) Monitoring the process  v) Test design specification documents.  Describe dependability properties in detail.	(10 Marks) (10 Marks)

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