(20 Marks)

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

Time: 3 hrs. Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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		PART - A
1	a.	Explain the perspective testing definitions of the following: i) Errors ii) Fault iii) Failure iv) Incident v) Test vi) Test case
	b.	and draw the flow diagram of a testing life cycle. (10 Marks) Explain in details about functional testing and structural testing. (10 Marks)
2	a.	Explain about equivalence class testing with respect to: i) Weak normal ii) Strong normal
	b.	 iii) Weak robust iv) Strong robust With examples, explain boundary value analysis with respect to: i) Generalizing boundary value
	c.	ii) Limitations of boundary value (08 Marks) Explain test cases for the triangle problem with respect to decision table based testing with examples. (08 Marks)
3	a. b.	Explain in details about McCabe's basis path method using graph theory. Explain about slice based testing in a data flow testing. (10 Marks)
4	a. b.	Draw the display screens of both Simple Automatic Teller Machine (SATM) terminal and built with fifteen screens for the SATM system. (10 Marks) Explain about decomposition based integration with respect to integration testing. (10 Marks)
		PART - B
5	a.	Explain about three basic concept are derived from functional strategies for thread testing in a system testing. (10 Marks)
	b.	Explain about client/server testing with respect to interaction testing. (10 Marks)
6	a.	Draw the block diagram of relation of verification and validation activities with respect to artifacts produced in a software development project. (10 Marks)
	b.	Illustrate the relation among dependability properties in a test analysis within a software process. (10 Marks)
7	a.	Explain about assumptions in fault-based testing and mutation analysis terminology. (10 Marks)
	b.	Explain in details about: i) Scaffolding, ii) Test oracles. (10 Marks)
8	a. b. c.	Write short notes on the following: Quality and process The quality team Organizing documents

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d. Test design specification documents.