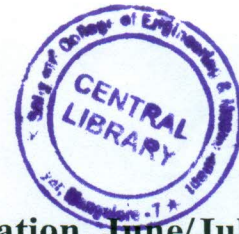


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10CS842

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.**

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

 and draw the flow diagram of a testing life cycle. (10 Marks)
- b. 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
iii) Weak robust	iv) Strong robust

(04 Marks)
- b. With examples, explain boundary value analysis with respect to:
 - i) Generalizing boundary value (08 Marks)
 - ii) Limitations of boundary value (08 Marks)
- c. Explain test cases for the triangle problem with respect to decision table based testing with examples. (08 Marks)
- 3 a. Explain in details about McCabe's basis path method using graph theory. (10 Marks)
- b. Explain about slice based testing in a data flow testing. (10 Marks)
- 4 a. Draw the display screens of both Simple Automatic Teller Machine (SATM) terminal and built with fifteen screens for the SATM system. (10 Marks)
- b. 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 Write short notes on the following:
 - a. Quality and process
 - b. The quality team
 - c. Organizing documents
 - d. Test design specification documents. (20 Marks)

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Important Note : 1. On completing your answer, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.