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10IS65

Sixth Semester B.E. Degree Examination, July/August 2021
Software Testing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. List two approaches used to identify test cases, brief each and compare them. (04 Marks)
 - b. Explain fault taxonomies. (06 Marks)
 - c. Explain SATM system. (10 Marks)

- 2
 - a. Briefly explain :
 - i) Robust testing
 - ii) Worst case testing
 - iii) Robust worst case testing. (06 Marks)
 - b. Compare and contrast Boundry value analysis and equivalence class testing. (04 Marks)
 - c. Derive equivalence test cases for NextDate function. (10 Marks)

- 3
 - a. Explain Basis path testing and test coverage metrics with examples. (10 Marks)
 - b. Define Define/Use testing. With example explain DU path. (10 Marks)

- 4
 - a. Explain Rapid prototyping life cycle and executable specification. (10 Marks)
 - b. Explain with suitable examples Decomposition based Integration graph. (10 Marks)

- 5
 - a. Briefly explain structural strategies and functional strategies for Thread testing. (10 Marks)
 - b. Explain taxonomy of Integration. (10 Marks)

- 6
 - a. Explain verification and validation. Bring out their differences. (10 Marks)
 - b. Explain Basic principle of analysis and testing. (10 Marks)

- 7
 - a. Explain mutation Analysis and variation on mutation analysis. (10 Marks)
 - b. Briefly explain :
 - i) Scaffolding
 - ii) Faultbased analysis
 - iii) testoracles
 - iv) capture and reply (10 Marks)

- 8

Write short notes on :

 - a. Analysis and test plan
 - b. Test design specification document
 - c. Documentation and Naming convention
 - d. Test analysis report. (20 Marks)

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Important Note : 1. On completing your answers, 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.