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17CS552

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Introduction to Software Testing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the quality attributes in detail, to determine the software quality. (10 Marks)
- b. Explain in details about how identifying test cases is done in software testing. (10 Marks)

OR

- 2 a. With a neat diagram of a testing life cycle explain following:
i) Fault ii) Failure iii) Incident iv) Test case (10 Marks)
- b. Explain Testing and Debugging cycle with a diagram. (10 Marks)

Module-2

- 3 a. Explain test case for the triangle problem with respect to decision table based testing with examples. (12 Marks)
- b. What are Decision Tables? Draw the Decision table for triangle problem. (08 Marks)

OR

- 4 a. List and explain equivalence class testing with diagram write equivalence class test case for triangle problem. (12 Marks)
- b. With examples explain boundary value analysis with respect to
i) Generalizing boundary value analysis
ii) Limitations of boundary value analysis. (08 Marks)

Module-3

- 5 a. Explain in detail about McCabe's basis path method using graph theory. (08 Marks)
- b. Explain in detail define/use testing with example. (12 Marks)

OR

- 6 a. Explain about slice based testing in a data flow testing with example. (10 Marks)
- b. With example explain DD-Paths in path testing. (10 Marks)

Module-4

- 7 a. Explain in detail quality and process in software planning. (10 Marks)
- b. What is a test oracles? With a neat diagram explain the comparison based test oracles. (10 Marks)

OR

- 8 a. What is Scaffolding? Distinguish between Generic Versus Specific Scaffolding. (08 Marks)
- b. Explain the basic principles process frame work. (12 Marks)

Module-5

- 9 a. Describe decomposition based integration and its goals. Explain the different types of decomposition based on integration. (08 Marks)
- b. Explain different types of testing strategies in integration testing. (12 Marks)

OR

- 10 a. Describe basic problem of regression test in integration testing. (10 Marks)
- b. Explain the following: i) Acceptance testing ii) System testing. (10 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.