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15IS63

Sixth Semester B.E. Degree Examination, June/July 2018 Software Testing

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Define the following : i) Error ii) Fault iii) Failure iv) Test v) Reliability
vi) Usability vii) Correctness viii) Performance. (08 Marks)
- b. Explain structured implementation of triangle problem with a neat dataflow diagram. (08 Marks)

OR

- 2 a. Explain testing and debugging with a neat diagram. (08 Marks)
- b. Explain functional and structural testing. (08 Marks)

Module-2

- 3 a. Explain boundary value analysis. Mention its limitations. Derive BVA testcases for triangle problem. (08 Marks)
- b. Briefly explain the variants of equivalence class testing. Derive equivalence class testcases for next date problem. (08 Marks)

OR

- 4 a. Explain the format of decision table. Build decision table for simple version of triangle problem. (08 Marks)
- b. Explain fault based testing with its terminologies and assumptions. (08 Marks)

Module-3

- 5 a. Write a note on : i) Statement testing ii) Branch testing. (08 Marks)
- b. What is DD-path? Explain basis path testing with suitable example. (08 Marks)

OR

- 6 a. What is the use of dataflow testing? List and define various terms in define-use testing. (08 Marks)
- b. Explain scaffolding. Differentiate between generic and specific scaffolding. (08 Marks)

Module-4

- 7 a. Write a note on: i) Sensitivity ii) Redundancy iii) Partition iv) Feedback. (08 Marks)
- b. Explain dependability properties. (08 Marks)

OR

- 8 a. Explain risk planning with different types of risks. (08 Marks)
- b. Write a short note on a standard organization of an analysis and test plan. (08 Marks)

Module-5

- 9 a. Explain : i) Acceptance testing ii) Usability testing. (08 Marks)
- b. Explain decomposition based integration testing. (08 Marks)

OR

- 10 a. Explain call graph based integration testing. (08 Marks)
- b. Explain the context diagram of SATM system. (08 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.