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15IS63

Sixth Semester B.E. Degree Examination, July/August 2022
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. Explain the perspective testing definitions of the following : i) Errors ii) Fault
iii) Failure iv) Incident v) Test vi) Test case. (06 Marks)
b. Explain the triangle problem statement along with flow chart and Pseudo code for structural implementation. (10 Marks)

OR

- 2 a. With a neat diagram, summarize Several strategies for test generation. (06 Marks)
b. Define Software quality. Explain the various measures of software quality. (06 Marks)
c. Write short notes on Static Testing. (04 Marks)

Module-2

- 3 a. Explain the four variations of Boundary value Testing with neat diagrams. (08 Marks)
b. Write Equivalence class test cases for the Commission problem. (08 Marks)

OR

- 4 a. Explain Test cases for the NextDate function with respect to decision table testing. (08 Marks)
b. Explain Fault based testing with its terminologies and assumptions. (08 Marks)

Module-3

- 5 a. Define DD – path. Draw DD – graph for triangle problem. (04 Marks)
b. What is Cyclomatic Complexity? Explain Mc Cale’s Basis path method. (08 Marks)
c. Write short notes on Test Oracles. (04 Marks)

OR

- 6 a. Explain about Scaffolding. (04 Marks)
b. Explain about Slice based testing with Commission problems. (08 Marks)
c. Write short notes on Capture and Replay. (04 Marks)

Module-4

- 7 a. Explain Six principles which constitute the Core of software testing. (09 Marks)
b. Briefly discuss the dependability properties in Process frame work. (07 Marks)

OR

- 8 a. Explain the following : i) Risk planning ii) Monitoring the process. (08 Marks)
b. Write short notes on :
i) Test and Analysis report ii) Organizing documents. (08 Marks)

Module-5

- 9 a. Explain Integration Testing strategies. (08 Marks)
b. Explain the context diagram of SATM System. (08 Marks)

OR

- 10 a. Explain Traditional view of testing levels, Alternate Life – cycle models. (10 Marks)
b. Compare Unit, Integration and System testing. (06 Marks)

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.