



Sixth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Software Testing

Max. Marks: 100

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

Module-1

- 1 a. List and explain error and fault taxonomies. (07 Marks)
- b. Discuss Quality attributes in detail associated with software quality. (07 Marks)
- c. What are Test Cases? Explain testing life cycle. (06 Marks)

OR

- 2 a. How can we identify test cases using function and structural testing explain? Also write their differences. (10 Marks)
- b. Explain triangle problem with structural implementation. (10 Marks)

Module-2

- 3 a. Explain Boundary – Value – Analysis with its types, examples and limitations. (10 Marks)
- b. Draw Decision table with rule count for triangle problem, Also list and explain different types of Decision Tables. (10 Marks)

OR

- 4 a. Explain Equivalence class analysis and its types and write testcases for next data function. (10 Marks)
- b. Write the test cases for the following :
 i) Apply Boundary value Analysis for commission problem
 ii) Apply equivalence class testing for commission problem. (10 Marks)

Module-3

- 5 a. Explain statement, Block and condition converge with suitable code. (10 Marks)
- b. Explain Mc Cables Basis path testing. (10 Marks)

OR

- 6 a. Define Data flow Testing. Define all the definitions involved in dataflow testing. (10 Marks)
- b. Explain Test – converge metrics for path testing proposed by EF miller. (10 Marks)

Module-4

- 7 a. Explain alternative life cycle models in software testing. (10 Marks)
- b. Explain SATM in brief, draw and explain context diagram and dataflow diagram of SATM. (10 Marks)

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OR

- 8 a. Explain Decomposition based integration testing. (10 Marks)
- b. Explain Call graph based integration testing. (10 Marks)

Module-5

- 9 a. Illustrate Basic concept for requirements specification. (10 Marks)
- b. Explain Functional strategies for Thread Testing. (10 Marks)

OR

- 10 a. Explain taxonomy of interactions and explain their dynamic interaction in a single and multiple processors. (10 Marks)
- b. Explains Client – Server Testing with a neat diagram. (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.