



Sixth Semester B.E. Degree Examination, Feb./Mar. 2022
Software Testing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. By writing Venn diagram, debate on functional versus structural test case identification methods. (10 Marks)
 b. Discuss the triangle problem with suitable input values. (10 Marks)
- 2 a. With the help of diagram explain Boundary value analysis, robustness testing and Worst Case Testing. (12 Marks)
 b. List any Four equivalence class test cases for the NextDate function. (04 Marks)
 c. Brief about Decision table-based testing. (04 Marks)
- 3 a. Explain with a suitable control graph, what is McCabe's basis path method. (10 Marks)
 b. With an example, explain Slice-based testing. (10 Marks)
- 4 a. Using a diagram, explain Rapid prototyping life cycle, as an alternative life cycle model for software testing. (10 Marks)
 b. Show top-down integration testing sequence for any suitable example. (10 Marks)

PART – B

- 5 a. Explain thread testing and different strategies for thread testing with example. (12 Marks)
 b. Compare progression and regression testing. (04 Marks)
 c. Write short note about client-server testing. (04 Marks)
- 6 a. With a neat diagram explain verification and validation activities with respect to artifacts produced in a software development project. (10 Marks)
 b. State and explain any Four principles that characterize various approaches and techniques for analysis and testing. (10 Marks)
- 7 a. What are test Oracles? Explain with a diagram test harness with a comparison-based test oracle process test cases consisting of (program input, predicted output) Pairs. (12 Marks)
 b. Explain fault – based testing, listing assumption in the same. (08 Marks)
- 8 a. Write detailed note on test and analysis plans. (10 Marks)
 b. Explain with a template, a standard organization of an analysis and Test plan. (10 Marks)

CMRIT LIBRARY
 BANGALORE - 560 037

* * * * *

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.