

CBCS SCHEME

15IS63

USN

--	--	--	--	--	--	--	--	--	--

Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 Software Testing

Max. Marks: 80

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

Module-1

- What is Software Quality? Explain different Software Quality Attributes. (08 Marks)
 - What is Software Testing? Explain Functional and Structural Testing. (08 Marks)

OR

- Explain Error and Fault Taxonomies. (08 Marks)
 - Explain Structural Implementation of triangle problem. (04 Marks)
 - Explain levels of Testing. (04 Marks)

Module-2

- Explain Boundary Value Analysis and write the test cases for Triangle problem. (08 Marks)
 - Explain Equivalence class Testing approaches with Next – date – Functions as an Example. (08 Marks)

OR

- Explain Decision Table technique with respect to triangle problem. (08 Marks)
 - Explain Mutation Analysis Terminology and Variation in Mutation Analysis. (08 Marks)

Module-3

- Define DD – Path and draw DD – Path for a Triangle problem. (08 Marks)
 - Explain Test execution techniques and Test Oracles in detail with a neat diagram. (08 Marks)

OR

- What is Cyclomatic Complexity? Explain Mc Cabe's basis path method. (08 Marks)
 - Explain Metrics based testing with respect to Test Coverage Metrics. (08 Marks)

Module-4

- Explain any six principles which constitute the core of Software Testing. (08 Marks)
 - Explain Improving the process and Dependability properties. (08 Marks)

OR

- Explain Clean – Room Process Model and Software Reliability Engineered Testing (SRET). (08 Marks)
 - Write a short note on : i) Risk Planning ii) Organizing Documents. (08 Marks)

Module-5

- Explain Integration Testing Strategies with respect to Top – down and Bottom up Strategies. (08 Marks)
 - Briefly describe about : i) System Testing ii) Acceptance Testing. (08 Marks)

OR

- Draw the context diagram of SATM system and explain the same. (08 Marks)
 - Explain the call graph – based Integration with the help of
i) Pair – Wise Integration ii) Neighborhood Integration. (08 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.

