Sixth Semester B.E. Degree Examination, June/July 2023 Software Testing

Time: 3 hrs. Max. Marks: 100

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

Module-1

- a. Explain program behavior insights from a Venn Diagram for functional testing and structural testing.
 - b. Identify and explain fault taxonomies with example.

(10 Marks)

OR

- With the flowchart for the traditional triangle problem implementation.
- (10 Marks) (10 Marks)

b. Analyse and explain the SATM screen.

Module-2

- a. Write a program to solve the triangle problem. Derive test cases for program based on boundary value analysis. (10 Marks)
 - b. Write a program to solve commission problem. Analyze it from the perspective of equivalence class testing and derive the test cases. (10 Marks)

OR

- Write a program to solve the triangle problem. Derive test cases for program based on decision table approach. (10 Marks)
 - b. List the assumptions made in fault based testing and explain the mutation analysis with sample program. (10 Marks)

Module-3

5 a. Analyze and explain metric - based testing.

(10 Marks)

Explain define/Use testing with example.

(10 Marks)

- OR
- 6 a. Describe about scaffolding. Discuss about Generic versus specific scaffolding. (08 Marks)
 - b. Define:
 - i) Test oracles
 - ii) Self-checks
 - iii) Capture
 - iv) Replay.

(12 Marks)

Module-4

Explain the basic principles in the frame work for test and analysis.

(12 Marks)

List and explain the dependability properties test and analysis actives.

(08 Marks)

OR

- 8 a. Explain Software Reliability Engineered Testing (SRET) approach with diagram. (16 Marks)
 - b. Identify and explain risk management in quality plan with respect to generic and specific issues.

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining brank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42-8 = 50, will be treated as malpractice.

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Module-5

- a. Analyze and explain integration testing strategies.
 - o. What is regression testing? Explain regression test selection technique.

(10 Marks)

(10 Marks)

- OR
- 10 a. Explain Rapid Prototyping Life Cycle with diagram.
 - b. Explain Decomposition Based Integration.

(10 Marks) (10 Marks)

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