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

Time: 3 hrs. Max. Marks: 100

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

Module-1

- 1 a. What is Software Testing? Explain the portrays of software testing life eyele. (05 Marks)
 - b. Define the terms: i) Error ii) Fault iii) Failure iv) Incident v) Test care. (05 Marks)
 - c. Explain Triangle problem statement along with flowchart for traditional implementation.

(10 Marks)

OR

- a. Explain testing and Debugging with a neat diagram. (10 Marks)
 - b. Explain error and fault Taxonomies. (05 Marks)
 - c. With a neat diagram, explain the currency converter system. (05 Marks)

Module-2

- Explain Boundary value analysis and write the test cases using BVA testing for a triangle problem.
 - b. Explain fault based testing with its terminologies and assumptions. (10 Marks)

OR

- Briefly explain the variants of equivalence class testing. Derive equivalence class test cases for next date problem.
 - b. Explain the format of decision table for refined version of triangle problem. (10 Marks)

Module-3

- 5 a. Write a note on statement testing and branch testing or block converge. (05 Marks)
 - b. Define DD path. Explain basis path testing with suitable example. (10 Marks)
 - c. Explain metric based testing. (05 Marks)

OR

- 6 a. What is the use of Data flow Testing? List and define various terms in Define use testing with an example.

 (10 Marks)
 - b. What is Scaffolding? Differentiate between generic and specific scaffolding. (05 Marks)
 - c. Explain: i) Test oracles ii) Capture and replay. (05 Marks)

Module-4

- 7 a. Write a note on:
 - b Explain dependability Properties. (10 Marks)
 (10 Marks)

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OR

- a. Explain: i) Risk planning ii) Organizing document iii) Monitoring the process iv) Quality goals (10 Marks) v) Quality process. (10 Marks)
 - b. Write a short note on a standard organization of analysis and test plan.

Module-5

- With a neat diagram, explain alternate life cycle specification based model in detail. (10 Marks)
 - Explain decomposition based integration testing.

OR

- 10 a. Explain the call graph, based integration with the help of
 - i) Pair wise integration
 - ii) Neighborhood integration b. Explain the context diagram of SATM system.

(10 Marks)

(10 Marks)

(10 Marks)