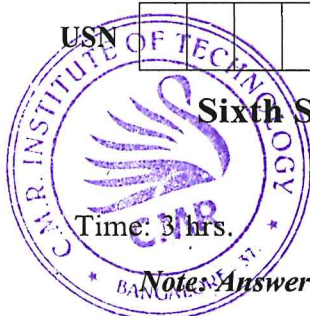


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Sixth Semester B.E. Degree Examination, July/August 2022
Software Testing

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. What are the two different fundamental approaches used to identify test cases? Explain them in brief with neat diagram. (10 Marks)
- b. Draw a neat dataflow diagram for a structured triangle program implementation. Explain in brief different conditions. (10 Marks)
- 2 a. (i) Explain Robustness Testing. (05 Marks)
- (ii) What are the limitations of Boundary Value Analysis? (05 Marks)
- b. Write the equivalence class test cases for the NextDate function. (10 Marks)
- 3 a. Explain in brief McCabe's Basis Path Method, and find the cyclomatic complexity for the following graph Fig.Q3(a). Show the Path/Edge Traversal Table.

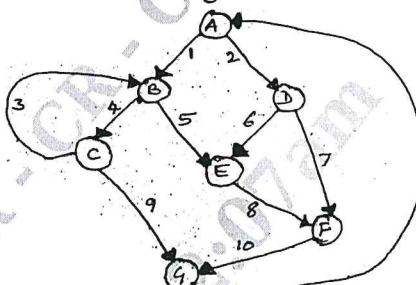


Fig.Q3(a)

- b. Explain Slice-Based Testing. (10 Marks)
- 4 a. Explain Entity/relationship model of the SATM system. (10 Marks)
- b. Explain Top-Down and Bottom-up methods of Integration Testing. (10 Marks)

PART - B

- 5 a. Explain different functional strategies for Thread Testing. (10 Marks)
- b. With a neat diagram, explain Client/Server Testing. (10 Marks)
- 6 a. Explain validation and verification in detail. (10 Marks)
- b. (i) Define partition. Explain in brief. (05 Marks)
- (ii) List different types of Quality Goals. (05 Marks)
- 7 a. Explain different Test Oracles. (10 Marks)
- b. Explain Fault-Based Testing-Terminology. (10 Marks)
- 8 Write short notes for the following:
 - a. Test and Analysis plans (05 Marks)
 - b. The 80/20 or Pareto Rule (05 Marks)
 - c. Organizing Documents (05 Marks)
 - d. Test Strategy Document (05 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.