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10CS842

## Eighth Semester B.E. Degree Examination, June / July 2014 Software Testing

Time 3 hrs.

Max. Marks

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

PART-A

- 1 a Explain errors, faults and failures in the process of programming and testing with a life diagram.

  (08 Marks)
  - Briefly explain about functional testing and structural testing.
  - c. Draw the dataflow diagram for a structured triangle program implementation. (6 Marks)
- 2 a. With example, explain about boundary value analysis and mention its limit. (0 Marks)
  - b. With neat figure, explain about i) Robustness testing ii) Worst case along. Marks)
  - c. Explain about
    - i) Strong normal equivalence class testing.
    - ii) Strong Robust equivalence class testing.

- (64 Marks)
- d. Write equivalence class test cases for the triangle problem

(06 Marks)

08 Mar. (s)

- 3 a. Write a structured triangle program draw the program and the DD paths, DD path graph for the triangle program. (08 Marks)
  - b. For the program graph G(P) and a set of program variable V de the following:
    - Defining node of variable.
    - ii) Usage node of variable.
    - iii) Definition use path with respect to variable.
    - iv) Definition clear path with respect to valuable.

(04 Marks)

- c. Explain about,
  - i) du-path test coverage metrices with sata flowing fam.
  - ii) Style and technique to find slice of pro-

(08 Marks)

4 a. Explain about specification - based in the cle manel.

- (06 Marks)
- b. Briefly explain about SATM system, that the context diagram, ER model and decomposition tree for SATM system. (08 Marks)
- Explain about path-based integration

(06 Marks)

PA CT-

5 a. Briefly explain about firmional strategies for thread testing

(10 Marks)

Explain about client / serve lesting.

- (10 Marks)
- 6 a. With a neat diagram, or dain the relation of verification and validation activities with respect to artifact produced in some are development project. (08 Marks)
  - b Explain the six proceples and characterize various approaches and technique for analysis and testing (12 Marks)
- 1 a. Define Scattoning Distinguish between Generic versus specific Scaffolding briefly.

(08 Marks).

- b. Explain about:
  - i) Tracit
- ii) Capture and Relay
- iii) Test cases
- (12 Marks)

- 8 Write a short note on the following:
  - Quality and processes.
  - b. sk planing.
    - and analysis strategies & plan.
    - y goal.

(20 Marks)

ALL BRANCHES | ALL SEMESTERS | NOTES | QUESTON PAPERS | LAB MANUALS

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