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10CS842

Eighth Semester B.E. Degree Examination, June/July 2015
Software Testing

Time: 3 hrs:

Max. Marks:100

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

PART – A

- 1 a. With neat diagram, explain the SATM system. (10 Marks)
b. Briefly explain about functional testing and structural testing. (10 Marks)
- 2 a. Explain about decision tables, construct decision table of triangle problem, it accepts three integer a, b and c as three sides inputs equilateral, scalene, isocelis or not a triangle and satisfy the following conditions $a < b + c$, $b < a + c$ and $c < a + b$? (10 Marks)
b. With example, explain boundary value analysis and mention its limitations. (04 Marks)
c. Differentiate between weak robust equivalence class testing and strong robust equivalence class testing. (06 Marks)
- 3 a. Explain about du-path test coverage matrices with data flow diagram. (05 Marks)
b. Explain about test coverage matrices. (10 Marks)
c. Explain McCabe's basis path method. (05 Marks)
- 4 a. With neat diagram, explain the traditional view of testing levels of waterfall life cycle and rapid prototyping life cycle. (10 Marks)
b. Explain TOP – DOWN integration and bottom – up integration with suitable example. (10 Marks)

PART – B

- 5 a. Explain about client /server testing. (10 Marks)
b. Explain about functional strategies for thread testing. (10 Marks)
- 6 a. With neat diagram, explain the validation and verification activities check work product against actual user requirements. (10 Marks)
b. Explain the following :
 - i) Sensitivity
 - ii) Redundancy
 - iii) Visibility
 - iv) Restriction
 - v) Partition. (10 Marks)
- 7 a. Describe the test oracles with a neat diagram. (10 Marks)
b. Explain the fault based adequacy criteria. (10 Marks)
- 8 Write a note on :
 - a. Quality goal
 - b. Test and analysis strategies and plan
 - c. Risk management
 - d. Monitoring the process. (20 Marks)

Important Note : 1. On completing your answers, you must 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.