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10CS842

PESIT-Bangalore South Campus LIBRARY 560 100

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.***

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.

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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)**

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