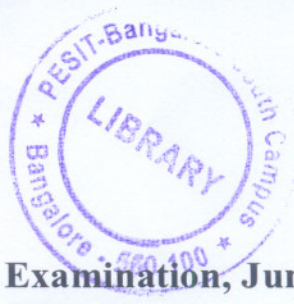


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10CS842

## 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)

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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.