USN | | | | | | | | | | **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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