Code: 13A05605

R13

B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017
SOFTWARE TESTING METHODOLOGIES
(Information Technology)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a) Describe the purpose and goal of testing.
   (b) Define path testing and control flow graph.
   (c) What are the three different possible interpretations of the decision symbol?
   (d) Outline the two types of data flow machines with different architectures.
   (e) List the examples of domain errors.
   (f) Outline the generic domain bugs.
   (g) Identify the examples of path product and path sum.
   (h) Define decision table and its application.
   (i) Distinguish between a state graph and a state table.
   (j) Write the importance of the matrix of a graph.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   Explain some dichotomies of software testing.

OR

3   Discuss various flow graph elements with their notations.

UNIT – II

4   What is meant by transaction flow testing? Discuss its significance.

OR

5   What is meant by data flow model? Discuss various components of it.

UNIT – III

6   With a neat diagram, explain the schematic representation of domain testing.

OR

7   Discuss in detail about the domains and interface testing.

UNIT – IV

8   Write short notes on Distributive laws, Absorption Rule and Loops.

OR

9   What are decision tables? Illustrate the, applications of decision tables with examples.

UNIT – V

10   Explain about good state and bad state graphs.

OR

11   Discuss node reduction algorithm. What are graph matrices and applications?

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