

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)

- 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?
