

R09**Code: 9A05702****B.Tech IV Year I Semester (R09) Supplementary Examinations June 2016****SOFTWARE TESTING**

(Common to CSE & IT)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Give difference between functional testing and structural testing.
(b) Specify on which factors the importance of bugs depends? And give the metric for it.
(c) Explain various consequences of bugs.
(d) What are the remedies for test bugs?
- 2 Describe about different kinds of predicate blindness.
- 3 (a) Define a transaction. Give an example.
(b) How does transaction flows occur, illustrate with the help of examples?
- 4 (a) What is the difference between linear and nonlinear boundaries? Explain.
(b) Discuss about systematic boundaries.
- 5 Write short notes on:
(a) Path products.
(b) Path expressions.
(c) Path sum.
(d) Loops.
- 6 Recue the following functions using Karnaugh Map method:
 $F(A, B, C, D) = \pi(4, 5, 6, 7, 8, 12, 13) + d(1, 15).$
- 7 (a) Differentiate between good state graphs and bad state graphs.
(b) What are the principles of state testing? Explain its advantages and disadvantages.
- 8 (a) Write an algorithm for Node reduction.
(b) Illustrate the applications of node reduction algorithm.
