

B.Tech III Year I Semester (R15) Regular Examinations November/December 2017

SOFTWARE TESTING

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Explain the importance of bugs.
 - Explain control flow graph.
 - Explain test databases in transaction flow testing.
 - List the applications of DFT.
 - Explain in brief nice domain testing.
 - Describe linear boundaries.
 - Explain simply connected domains.
 - Define path expression.
 - Define and explain state graph.
 - Explain relation and list its properties.

PART – B

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

UNIT – I

- 2 (a) Explain the different phases in Tester's Mental life.
(b) What are the applications of Path Testing?

OR

- 3 (a) What are the different requirement features and functionality bugs?
(b) Explain testing blindness and path sensitizing.

UNIT – II

- 4 What is transaction flow and neatly explain its implementation.

OR

- 5 (a) Describe in detail about the Data Flow Anomaly State Graph.
(b) Explain data flow testing strategies.

UNIT – III

- 6 Explain different ugly domains, how programmers and testers treat ugly domains.

OR

- 7 State and explain with suitable examples, various two dimensional domain bugs.

UNIT – IV

- 8 Explain the usage of regular expression in flow anomaly detection.

OR

- 9 What is decision table and how does it is useful in testing? Explain it with help of an example.

UNIT – V

- 10 (a) What are the principles of state testing? Explain its advantages and disadvantages.
(b) Describe the basic principles of Graph Matrix.

OR

- 11 (a) Differentiate between good state graphs and bad state graphs.
(b) Explain Node Reduction algorithm.
