

Roll No.

Total Pages : 2

BT-8/M-20

38155

SOFTWARE TESTING

Paper–CSE-412-N (E-III)

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

1. (a) Illustrate with suitable examples the principles of Software testing. 8
- (b) With neat diagram, explain validation and verification activities. 7
2. (a) Why is it impossible for a tester to find all the bugs in a system? Why might it not be necessary for a program to be completely free of defects before it is delivered to its customers? 10
- (b) Write a note on Origins of defects. 5

UNIT-II

3. Demonstrate various kinds of loops with respect to path testing using neat diagrams.

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P. T. O.

- What are decision tables? Draw the decision table for triangle problem. 15
4. (a) Discuss in detail about the code coverage techniques with example. 5
- (b) Explain the significance of control flow graph and cyclomatic complexity in white box testing technique with a pseudo code of sum and average of n numbers. 10

UNIT-III

5. (a) Draw the control flow graph and show coverage criteria for given code. 7
- (b) Explain call graph based integration with suitable example. 8
6. (a) State unit test and describe about planning and designing of Unit test. 8
- (b) Explain path based integration testing. 7

UNIT-IV

7. How can you test the performance. Testing of web-based applications? Discuss with example. 15
8. (a) Discuss Object Oriented Integration techniques. 7
- (b) Explain Database testing. 8