BT-8/M-19   **38155**

SOFTWARE TESTING (E-III)
CSE-412N

Time : Three Hours]

[Maximum Marks : 75

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

Unit I

1. (a) Why effective software testing in hard ? Explain using suitable examples.   7½

   (b) What is SDLC ? How is it different from STLC ? Explain.   7½

2. What is meant by verification ? How verification can be done at requirement, high-level design and low-level design ? Explain in detail. Also differentiate between verification and validation.   15

Unit II

3. (a) How the equivalence partitioning and cause-effect graphing is used for testing ? Explain using suitable examples.   7½

   (b) Differentiate between boundary value analysis and wrost case testing.   7½

4. Describe the various techniques for control flow and data flow based testing using suitable examples.   15

Unit III

5. (a) State and explain various guidelines for prioritization during testing.   7½

   (b) What is Slice Based Testing ? Explain its merits and demerits in comparison to other types of testing.   7½

6. (a) Comment on the need of system testing ? How is it different from integration testing. 7½

   (b) What is domain testing ? How it can be done ? Explain using suitable examples.   7½

Unit IV

7. What are the challenges in object-oriented software testing ? Describe various class testing strategies in detail.

15

8. Write short notes on the following :
   (a) User-Interface Testing
   (b) Performance Testing
   (c) Usability Testing.   15