

Roll No. ....

Total Pages : 2

Exam. Code

5028

**8906**

**BT-8/M-11**

**SOFTWARE VERIFICATION,  
VALIDATION AND TESTING**

Paper : CSE-450

Opt. (Departmental Elective-IV)

Time : Three 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) What do you mean by Testing? Why is it considered so important? Discuss it and also explain its limitations.  
(b) Define Error, Fault and Failure. Explain the difference between a fault and a failure. Does testing, observe fault or failure?
2. State the aims of Testing and also discuss equivalence class testing alongwith its merits and demerits.

#### **UNIT-II**

3. What do you understand by Structured testing? Illustrate important structured testing techniques.

4. Discuss the following in brief :
  - (i) Priority category.
  - (ii) Slice based testing.
  - (iii) Prioritization testing.

#### **UNIT-III**

5. (a) Why does software testing needs extensive planning Explain it.  
(b) What do you understand by Debugging? What are the various debugging techniques? Illustrate the principle difference among them. <http://www.kuonline.in>
6. What do you mean by OOT? Discuss it and also explain the various issues related to it. Discuss GUI testing in detail.

#### **UNIT-IV**

7. What do you know about Static testing? Discuss it and also explain the difference between Static and Dynamic tools.
8. Write short notes on the following :
  - (i) Dynamic testing.
  - (ii) Modern tools.