

Roll No. .... Total Pages : 2

**46310**

**BT-6/M-24**

**SOFTWARE TESTING**

**Paper-PC-CS-AIML-308A**

**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) Explain effective Software testing with suitable example. Why it is hard to implement?  
(b) Discuss the limitations of testing by taking suitable example. (7+8=15)
2. (a) How verification can be done at requirement, High level design and low level design? Explain with suitable example.  
(b) Differentiate among error, fault and failure by taking suitable example. Also list the different types of test cases. (7+8=15)

**UNIT-II**

3. (a) Why Graph metrics is important in testing process? Also show its use to calculate Cyclomatic Complexity with suitable example.  
(b) Why the mutation testing is important in testing process? (10+5=15)

46310/200/KD/1069

[P.T.O.]

23/6



4. (a) What is the scope of cause effect graphing technique? Illustrate with suitable example.  
(b) How boundary value analysis is used for testing process? (7+8=15)

### UNIT-III

5. (a) What are the steps involved while performing slice based testing?  
(b) How can we perform risk analysis in effective manner? (7+8=15)
6. (a) Elaborate various level of testing involved in testing process.  
(b) Define the need of domain testing in testing process. (7+8=15)

### UNIT-IV

7. (a) What are the various quality models? Explain McCall model in detail.  
(b) Describe all the quality factors of Boehm Model? Where does the Boehm model is used. (7+8=15)
8. Write short note on the following :  
(a) Buddy Testing.  
(b) Exploratory Testing.  
(c) Agile Testing. (5×3=15)