

# Mumbai University

## Question Paper



SOFTWARE TESTING

B.Sc.IT: Semester – V  
October – 2013

**Time:** 2 ½ Hours

**Total Marks:** 60

- N.B.:** (1) All Question are Compulsory.  
(2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.  
(3) Answer To The Same Question Must Be Written Together.  
(4) Number To The Right Indicates Marks.  
(5) Draw Neat Labeled Diagrams Wherever Necessary.  
(6) Use of Non – Programmable Calculator is allowed.

**Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What is a Defect? What are its Causes? When do they Arise? What is the Cost of Finding Defect? (5)  
(B) What is Quality? Explain Quality Viewpoints for producing and Buying Software. (5)  
(C) Explain the Fundamental Principles of Testing. (5)  
(D) Explain the Fundamental Test Process. (5)

**Q.2 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) Explain the V-Model of Testing. (5)  
(B) What is Extreme Programming? What are its characteristics? (5)  
(C) What are the different levels of Testing? Explain each in brief. (5)  
(D) What are the four types of Software Testing? Explain each. (5)

**Q.3 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What is Static Testing? What are its advantages? (5)  
(B) Explain the phases of Formal Review. (5)  
(C) What are the different types of Reviews? What are the goals and characteristics of inspection? (5)  
(D) What are the success factors of Reviews? Explain. (5)

**Q.4 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What are the different types of Testing Techniques? Explain. (5)  
(B) Explain Equivalence Partitioning and Boundary Value Analysis with examples. (5)  
(C) What is Decision Table? Explain with example. (5)  
(D) State and explain the factors that influence the decision about which technique to use. (5)

**Q.5 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What are the benefits of independent testing? What are the skill sets required by a software tester? (5)  
(B) Explain various types of test strategies. How to pick up the best types of strategies for success? (5)  
(C) What is the purpose of test monitoring? Explain the IEEE 829 test log template. (5)  
(D) What is an incident report? What does it contain? (5)

**Q.6 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) What are the features of Test Management Tools and Configuration Management Tools? (5)  
(B) What are test Execution Tools? What are their characteristics? (5)  
(C) What are benefits and risks of using tools? Explain. (5)  
(D) What are the important factors in selecting a tool? What are the objectives of pilot project for a new tool? What are the factors that contribute to the success after implementing a Testing Tool? (5)