

Mumbai University

Question Paper



SOFTWARE TESTING

B.Sc.IT: Semester – V
April – 2014

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) Define the terms Error, Defect and Failure with reference to Software Testing. (5)
(B) Explain any two Testing Principles. (5)
(C) Describe Test Analysis and Design Activities. (5)
(D) State and explain Fundamentals Test Process in brief. (5)

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

- (A) With the help of diagram explain V Model. (5)
(B) Explain Alpha and Beta Testing with reference to Acceptance Testing. (5)
(C) Write a note on Regression Testing. (5)
(D) What is the importance of Maintenance Testing? Explain. (5)

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

- (A) Compare Static Testing with Dynamic Testing. (5)
(B) Describe the Phases of Formal Review. (5)
(C) Explain the goals of Technical Review. (5)
(D) "Inspection is the most Formal Review Technique". Discuss. (5)

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

- (A) Define Specification Based Testing Technique and State any four techniques used under it. (5)
(B) Explain Boundary Value Analysis with suitable example. (5)
(C) Explain State Transition Testing Technique with suitable example. (5)
(D) State and explain the factors considered for choosing Test Techniques. (5)

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

- (A) What do you mean by Test Approaches? Explain any two. (5)
(B) What is a Test Plan? State and explain any four components of a Test Plan. (5)
(C) What are the purpose of Test Monitoring? (5)
(D) Write a note on Risk Based Testing. (5)

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

- (A) State and explain characteristics of Test Management Tools. (5)
(B) Explain any one tool used for Static Testing. (5)
(C) Explain any one tool that supports for Performance Monitoring. (5)
(D) State and explain Risk Factors associated with use of the Testing Tools. (5)