(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID :214563   Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

MCA

(SEM. V) THEORY EXAMINATION, 2015-16

SOFTWARE TESTING

[Time:3 hours]   [Total Marks:100]

Note: Attempt questions from all Sections as per directions.

Section-A

1. Attempt **all** parts. Write answer in brief. $(2\times10=20)$

    (a) Discuss the objectives of Software Testing.

    (b) What are the steps involved in Test Case Design?

    (c) Differentiate between Verification and validation.

    (d) What is User Acceptance Testing (UAT)?

    (e) Differentiate between Top Down and Bottom Up Integration Testing.

    (f) Give your view on Test Minimization.

(g) Explain the term Dynamic Slicing.

(h) Discuss the GUI testing.

(i) What is the scope of Automation Testing in Software Testing.

(j) Discuss the Test Management.

Section-B

Attempt **any five** questions from this section.(10×5=50)

2. Differentiate among Faults, Errors and Failures. Why does software testing need extensive planning? Discuss the principles of software testing.

3. What is meant by test case design? Describe any three types of White Box Testing Techniques with a suitable example.

4. Differentiate between Functional and Non Functional testing technieque. Discuss the Code coverage testing and Code complexity testing in detail.

5. What is Acceptance testing? Describe Acceptance testing. Describe Acceptance criteria and test cases selection/execution in the context of Acceptance testing.

6. Write short notes on the following:

   (a) Scalability Testing.

   (b) Selection of Regression tests.

7. Explain the Generic requirements for test tool framework in detail. Discuss the Test tool selection process in detail.

8. Explain Pair testing, Exploratory testing and Iterative testing in the context of Ad hoc testing.

9. Write short notes on the following:

   (a) Testing in Object-Oriented System.

   (b) Software test Automation

Section-C

Attempt **any two** questions from this section.   (15×2=30)

10. Describe Test Plainning, Management Execution and Reporting along with their significance in Software Testing Life Cycle(STLC).

11. Write short notes on the following:

    (a)   Deployment and Beta Testing.

    (b)   Test Metrics and Measurements in the context of Function Testing.

    (c)   Load Testing and Smoke Testing with suitable example.

12. Write short notes on the following::

    (i)   Discuss Software Defect Tracking Report.

    (ii)   Sanity Testing and Stress Testing techniques for Web Based Application.

    (iii) Graph Based Testing with suitable example.

—×—