22518

Instructions – (1) All Questions are *Compulsory*.

(2) Illustrate your answer with neat sketches wherever necessary.

(3) Figures to the right indicate full marks.

(4) Assume suitable data, if necessary.

(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** 10

a) Define the testing terminology –
   i) Error
   ii) Fault
   iii) Defect
   iv) Bug

b) List the levels of testing.

c) State any four needs to prepare a test plan.

d) Give the defect classification and its meaning.

e) Compare verification and validation (any two points).

f) State the need of automated testing tools.

g) Give the objectives of software testing.

Marks

2. **Attempt any <u>THREE</u> of the following:** **12**

   a) State the Entry and Exit criterias for the software testing.

   b) State and describe top-down approach of integration testing with diagram.

   c) Describe the 'Test Infrastructure' components with diagram.

   d) State the limitations of manual testing.

3. **Attempt any <u>THREE</u> of the following:** **12**

   a) Differentiate between white box testing and black box testing (any four points).

   b) State the contents of "Test Summary Reports" used in test reporting.

   c) Prepare defect report after executing test cases for any login form.

   d) Enlist the factors considered for selecting a testing tool for test automation.

4. **Attempt any <u>THREE</u> of the following:** **12**

   a) Describe graphical user interface (GUI) testing and its important traits.

   b) Describe test deliverables in details.

   c) Describe load testing and stress testing with suitable example.

   d) State the advantages and disadvantages of using tools.

   e) Write the test cases for Notepad application. (any eight test case)

5. **Attempt any <u>TWO</u> of the following:** **12**

   a) Design test cases for simple calculator application. (Black box testing.) (Any six points.)

   b) Design test cases for Web pages testing of any Web site (take a suitable example).

   c) Design test cases for MS Word application using an Automation tool.

Marks

6. Attempt any TWO of the following: **12**

a) Write program for calculating even numbers from 1 to 20 And design test cases for the same.

b) Prepare test plan for 'Cam Scanner' which is installed on mobile.

c) Prepare defect report after executing test cases for withdrawn of amount from ATM machine.

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