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21222

3 Hours / 70 Marks

15 minutes extra for each hour

Seat No.

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

(2) Answer each next main Question on a new page.

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

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) 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 verification and validation with respect to software testing.

b) State the process of performance testing.

c) Enlist different types of test deliverables.

d) Define following terms –

    i) Error.

    ii) Fault.

    iii) Bug.

    iv) Failure.

e) State any four defect reporting guidelines.

f) Enlist any four testing tools.

g) Enlist any four skills for software tester.

Marks

2. Attempt any THREE of the following: **12**

    a) Describe Code Complexity testing.

    b) Differentiate between Smoke Testing and Sanity Testing. (any four points).

    c) Describe different types of external standards.

    d) Describe different factors for selecting a testing tools.

3. Attempt any THREE of the following: **12**

    a) Differentiate between Quality Assurance and Quality Control.

    b) Explain test management with Test Infrastructure Management and Test People Management.

    c) Draw defect prevention process cycle. State working of each phase.

    d) State any eight limitations of Manual Testing.

4. Attempt any THREE of the following: **12**

    a) Describe Unit Testing.

    b) Explain test reporting with executing test cases and preparing test summary report.

    c) Explain test case specification.

    d) Describe need for Automated Testing tools.

    e) Explain following concepts related to security testing –

       i) Authorization.

       ii) Access Control.

Marks

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

a) Design test cases for Online Mobile Recharge
   (Data filed are mobile number, state, email-id, recharge amount.)

b) With respect to client-server testing design test cases for Online Payment Transfer at banking system.

c) Elaborate the concept of Software Metrics? Describe Base Metrics and calculated matrics with suitable example.

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

a) With respect to GUI testing, write test cases for Flipkart login form.

b) Prepare a test plan along with test cases for creating a saving account at bank. (Test cases should be atleast six).

c) Design any four test cases for withdraw an amount from ATM and prepare defeat report of it.

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