

22518

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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.

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- 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.

- 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 matrices 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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