16172

3 Hours / 100 Marks   Seat No. ⬚⬚⬚⬚⬚⬚⬚⬚

Instructions : (1) All Questions are *compulsory.*

(2) Illustrate your answers 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.   (A) Attempt any THREE of the following :   **12**

(a) Define software testing. List all skills of software tester.

(b) Describe Inspection under static testing.

(c) Describe Top-Down integration testing with labelled diagram.

(d) What is test plan ? Write its two advantage.

(B) Attempt any ONE of the following :   **06**

(a) Prepare six test cases for home page of marketing site www.flipkart.com.

(b) Enlist any six attributes of defect. Describe them with suitable example.

2. **Attempt any FOUR of the following :** 16

   (a) Describe equivalence partitioning with example.

   (b) State & explain any four benefits of automation in testing.

   (c) How to perform security testing ? State elements of security testing.

   (d) What is the difference between static & dynamic testing tool ?

   (e) Describe positive testing & negative testing. Also write test cases for them.

   (f) Describe defect life cycle with neat diagram.

3. **Attempt any FOUR of the following :** 16

   (a) Illustrate process of graph-based testing with suitable example.

   (b) Describe any two special tests in testing process.

   (c) How to identify resource requirement of test plan ?

   (d) Illustrate process of bi-directional integration testing. State its two advantages & disadvantages.

   (e) Differentiate between manual testing & automation testing.

4. (A) **Attempt any THREE of the following :** 12

   (a) Define software metrics. Describe product Vs process & objective Vs subjective metrics.

   (b) How to prepare test plan ?

   (c) Describe techniques for finding defects.

   (d) Describe test case specification of test process.

(B) Attempt any ONE of the following :   **06**

    (a) Describe V-model with labelled diagram.

    (b) What is the use of code complexity testing ? Also compute code complexity with the help of suitable example.

5. Attempt any TWO of the following :   **16**

    (a) Describe Test Management Process and give details of following Internal standards for process and method :

        (i) Naming and storage contention.

        (ii) Documentation standard.

    (b) What is boundary value analysis ? Explain with suitable example.

    (c) Write a short note on :

        (i) Load testing

        (ii) Stress testing

        (iii) Recovery testing

        (iv) Usability testing

6. Attempt any FOUR of the following :   **16**

    (a) Describe quality assurance and quality control.

    (b) Describe alpha testing with its entry & exit criteria.

    (c) What are types of test report ? Write contents of test summary report.

    (d) List all defect classification. Also describe any one defect in brief.

    (e) List & explain techniques of finding bugs.

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