21222

3 Hours / 100 Marks   Seat No.

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

(a)   What is bug ? Why do bug occurs ?

(b)   Describe equivalence partitioning with suitable example.

(c)   With the help of diagram describe compatibility testing.

(d)   Write entity, purpose and attributes of following elements of test infrastructure management.

(i)   A Test Case Database (TCDB)

(ii)   A defect repository

(B)   Attempt any ONE of the following :   **6**

(a)   Explain GUI testing with suitable example.

(b)   Describe defect management process with neat & labelled diagram.

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

(a) What is code complexity ? Explain cyclomatic complexity with example.

(b) State any four advantages of automated testing. State any four limitation of manual testing.

(c) Describe usability testing with it's advantages.

(d) Define Metrics and Measurements. Explain need of software measurements.

(e) Explain defect/bug life cycle with neat diagram.

(f) Describe positive and negative testing with example.

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

(a) Give any four differences between White box testing and Black box testing.

(b) Describe performance testing and recovery testing.

(c) Describe content of 'Test Summary Report' used in test reporting.

(d) Differentiate between Smoke testing and Sanity testing.

(e) Explain criteria for selecting test tools. List any two test tools.

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

(a) Explain test case with specification.

(b) Explain progress & productivity metrics.

(c) What are different techniques for finding defects ? Explain in detail.

(d) Explain test deliverables in detail.

(B) **Attempt any ONE of the following :** **6**

(a) Explain V-model with labelled diagram.

(b) Explain various code coverages in detail. How it is used in analysing coding of software ?

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

   (a) Write any eight test cases for admission form of college admission.

   (b) Write short notes on :

      (i) Inspection

      (ii) Structured walkthroughs

      (iii) Technical review

      (iv) Decision table

   (c) Explain in detail client-server testing.

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

   (a) What is defect ? Give defect classification in detail.

   (b) List and describe any four skills of software tester.

   (c) State how to minimize risk impact while estimating defect.

   (d) Explain test planning with example.

   (e) Differentiate between Alfa testing & Beta testing.

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