21819

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

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

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

           (3)   Figures to the right indicate full marks.

                                                           Marks

1.   **Attempt any FIVE of the following :**   **5 × 4 = 20**

     (a)   Define software testing and role of testing.

     (b)   Explain inspection and walk through.

     (c)   Explain bi-directional integration.

     (d)   Explain how a test plan is prepared.

     (e)   Explain the process, how the bug is reported.

     (f)   Explain criteria to select testing tool.

2.   **Attempt any TWO of the following :**   **8 × 2 = 16**

     (a)   Explain the need of stuks and drivers with diagram and its importance in software testing.

     (b)   Explain code functional testing and code coverage testing with example.

     (c)   Explain defect management process with suitable diagram.

3.   **Attempt any FOUR of the following :**   **4 × 4 = 16**

     (a)   Explain when to start and stop testing.

     (b)   Explain the importance of decision tables in testing.

     (c)   Explain GUI testing with example.

     (d)   Explain test infrastructure management with its components.

     (e)   Describe defect template with its attributes.

     (f)   State various advantages and disadvantages of using manual testing tools.

4. **Attempt any FOUR of the following :** **4 × 4 = 16**

   (a) Explain Quality assurance and quality control.

   (b) Explain graph based testing with example.

   (c) Explain web based testing for usable website.

   (d) Explain the need of test deliverables for test planning

   (e) Explain defect life cycle with diagram.

   (f) Explain the need of automated testing.

5. **Attempt any TWO of the following :** **8 × 2 = 16**

   (a) Explain verification and validation with neat diagram.

   (b) Differentiate between alpha testing and beta testing.

   (c) Explain the need of staff training and resource requirements in Test planning in software testing.

6. **Attempt any FOUR of the following :** **4 × 4 = 16**

   (a) Explain white box testing as technical review.

   (b) Explain the impact of equivalence partitioning in coding & testing.

   (c) Explain acceptance testing and usability testing.

   (d) Explain how summary report is prepared in test planning.

   (e) Explain people management in test planning.

   (f) What are static and dynamic testing tool.

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