MSc23121 - Software Testing Tools and Methodology Paper-I

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labeled diagram and use supporting data wherever necessary.
3. Avoid vague answers and write specific answers related to Questions.

1. Either.

a) Define testing. Explain the purpose of testing in detail. **8**

b) Explain general principle of testing and test metrics in detail. **8**

OR

c) Explain SDLC in detail. **8**

d) Explain Agile methodology and it's impact on testing in detail. **8**

2. Either.

a) Explain path predicates and Achievable paths in detail. **8**

b) Explain transaction flow testing in detail. **8**

OR

c) Explain the strategies in Data flow testing in detail. **8**

d) What do you mean by Domain testing? Explain about Nice and Ugly Domains. **8**

3. Either.

a) Explain following in detail. **8**
i) Control flow and data flow.

b) Explain Equivalence class partitioning and Boundary value Analysis in detail. **8**

OR

c) Explain about statement coverage and Brach coverage in detail. **8**

d) Explain Instrumentation and tool support for white box testing. **8**

4.   Either.

  a)   Explain the concept of Requirement Tracker in testing in detail.   **8**

  b)   Explain test specification and tools for test management in detail.   **8**

<div align="center">OR</div>

  c)   Explain Dynamic testing and Non functional testing in detail.   **8**

  d)   Explain the concept of object oriented testing software in detail.   **8**

5.   Solve all the questions.

    a)   Write short note on unit and component testing.   **4**

    b)   Write note on path sensitization.   **4**

    c)   Write short note on Gray Box testing.   **4**

    d)   Write a note on company ethics.   **4**

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