

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : MAY/JUNE - 2026
SEMESTER – III
Sub : Software Testing and Tools (MSC24-306)

Date : 3/06/2026**Total Marks : 60****Time: 2.00 pm To 4.30 pm**

Instruction:

1. All questions are compulsory unless and otherwise stated.
 2. Bold figures to the right of every question are the maximum marks for that question.
 3. Candidates are advised to attempt questions in order.
 4. Answers written illegibly are likely to be marked zero.
 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
 6. Draw neat and labelled diagram wherever necessary.
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Q. 1. Answer the following in 2 - 3 lines. (Any 5)**(10)**

1. What is Software Testing? Why it is important?
2. Define the terms Test Environment and test Strategy.
3. List different Test Closure Activities.
4. List Steps to automate test case.
5. What do you mean by testers' workbench?
6. Define the terms Verification and validation.
7. What do you mean by Equivalence Partitioning?

Q. 2. Answer the following in short. (Any 4)**(20)**

1. Explain differences between SDLC and STLC.
2. Define Black Box Testing. Explain BVA with suitable example.
3. Explain id and XPath locators in Selenium with suitable example.
4. Differentiate between Manual testing and Automation Testing.
5. Discuss the static testing techniques – reviews, walkthroughs, and inspections.
6. Explain the 11 steps of the testing process.

Q. 3. Answer the following in detail. (Any 3)**(30)**

1. Define Non-functional testing. Explain Load and Stress Testing in detail.
 2. Define structural Testing. Explain Statement coverage, Branch & decision coverage in detail.
 3. Explain Dynamic Testing thoroughly along with advantages and example.
 4. Explain all Levels of Testing (Unit, Integration, System, and Acceptance) in detail.
 5. Define the term automation testing. Explain in detail selenium web driver Advantages & Limitations.
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