Batch 2024-2025

TILAK MAHARASHTRA VIDYAPEETH, PUNE

MASTER OF COMPUTER APPLICATIONS (MCA)

EXAMINATION : DECEMBER - 2025

SEMESTER – III

Sub : Software Testing and Tools (MCA24-306)

Date : 27/12/2025 **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.*

Q. 1. Answer the following in 2 - 3 lines. (Any 5) **(10)**

1. Define the terms Verification and validation.
2. What do you mean by Equivalence Partitioning?
3. Define id and name locators. Give syntax.
4. Define the terms error, defect, and failure.
5. What is acceptance testing? Mention its types.
6. Where we can use Security Testing?
7. What is regression testing? Why is it important?

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

1. Describe the phases of STLC and explain each stage.
2. Explain differences between Manual and Automation testing in detail.
3. Explain unit Testing and Integration Testing with suitable example.
4. Discuss the static testing techniques – reviews, walkthroughs, and inspections.
5. Explain Test Plan and Test Strategy in detail.
6. What is a Test Case? Explain key components of a test case with suitable example.

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

1. Define functional testing. Explain Installation Testing and usability testing with suitable example.
2. Explain Domain testing and BVA with example.
3. Explain Selenium Components: IDE, WebDriver, Grid in detail.
4. Explain Testers Workbench and 11 Steps of Testing Process.
5. What is Dynamic Testing? Explain Alpha and Beta Testing in detail.