



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
(Autonomous)

End Semester Examination: MAR / APR 2025

Faculty: Commerce

Program: BBA (Computer Application)

Semester: VI

SET: A

Program (Specific): BBACA07

Course Type: CCT- 2

Class: TYBBACA

Max.Marks: 70

Name of the Course: Software Testing

Course Code: 24-BBACA362

Time: 3Hr

Paper: -

Instructions to the candidate:

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labelled diagram wherever necessary.*

Q1) Answer the following (MCQ)

[10 x 1 = 10 marks]

- 1) The system is in the state such that further processing by the system will lead to failure?
 - a) Error
 - b) Faults
 - c) Failure
 - d) Defects
- 2) _____ is a process of confirming that software meets the specifications.
 - a) Verification
 - b) Validation
 - c) Debugging
 - d) Quality control
- 3) Which Agile methodology focuses on short, time-boxed development cycles?
 - a) Kanban
 - b) Scrum
 - c) Waterfall
 - d) Lean
- 4) What is the purpose of a Test Plan?
 - a) To execute test cases
 - b) To identify defects in the software
 - c) To define the testing scope, objectives, and approach
 - d) To report the test results
- 5) Which tool is widely used for test case management and bug tracking in Agile?
 - a) Selenium
 - b) Postman
 - c) Jira
 - d) Jenkins
- 6) Which of the following testing is also known as white-box testing?
 - a) Design based testing
 - b) Structural testing
 - c) Error guessing technique
 - d) Acceptance testing
- 7) Boundary value analysis is case design techniques for
 - a) Black box testing
 - b) Both a and b
 - c) White box and black box testing
 - d) White box
- 8) Testing of individual components by the developers is considered as
 - a) Integration testing
 - b) Performance Testing
 - c) Validation testing
 - d) Unit testing

- 9) Which one of the following is functional testing?
- a) Security testing
 - b) Acceptance testing
 - c) Component testing
 - d) All of the mentioned
- 10) _____ testing is the form of Alpha and Beta Testing.
- a) Integration
 - b) System
 - c) Acceptance
 - d) Unit

Q2) Answer the Following. (Any 10)

[10x2 =20 marks]

- 1) What is Software Testing?
- 2) Define validation Testing.
- 3) Explain terms- Error and Failure.
- 4) Define regression testing.
- 5) What is Gray-box testing?
- 6) State the advantages of manual testing.
- 7) Define the term SQA
- 8) Define Stubs and Drivers.
- 9) What is the use of Boundary value analysis testing technique ?
- 10) What is test case ?
- 11) Name one tool commonly used for Test Case Management in Agile.
- 12) List two disadvantage of Agile Testing.

Q3) Answer the following. (Any 4)

[5x4=20 marks]

- 1) Explain Principles of Agile Testing.
- 2) What is a Traceability Matrix? Describe its structure and explain how it ensures complete test coverage.
- 3) Discuss the Testing Life Cycle (STLC).
- 4) Differentiate between Load and Stress testing.
- 5) Stub and Driver concept in Unit testing.
- 6) Explain Equivalence Partitioning in detail.

Q4) Answer the Following (Any 4).

[5x4=20 marks]

- 1) Distinguish between Manual testing and Automation testing.
- 2) What is the Agile Model? Explain its key characteristics and how it differs from traditional models like Waterfall.
- 3) Explain gray box testing.
- 4) State the Levels of Testing
- 5) Write a note on load and Smoke testing
- 6) Compare and evaluate of Sandwich and Big-Bang approach of Integration testing