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I Semester M.C.A. Degree Examination, April/May - 2026

COMPUTER SCIENCE

Software Testing With Selenium

(CBCS Scheme 2025)

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

Answer All Sections.

SECTION - A

Answer any Five of the following questions. Each question carries 6 marks.(5×6=30)

1. Explain Software Development Life Cycle and Testing with examples.
2. Explain Test Levels and Types.
3. Explain Test Automation Concepts.
4. Define Selenium and explain its components.
5. Explain Selenium Web Driver Architecture.
6. Explain the Page Object Model (POM).
7. Explain distributed testing with Selenium Grid.
8. Discuss Emerging Trends in Test Automation.

SECTION - B

Answer any Four of the following questions. Each question carries 10 marks.

(4×10=40)

9. a) Explain Software Testing Life Cycle. (5)
- b) Explain static vs. dynamic testing with example. (5)
10. Explain Selenium Overview and installation setup. (10)
11. a) Explain TestNG Framework. (5)
- b) Discuss Automating User Actions. (5)

[P.T.O.]



- 12. a) Explain in detail Data-driven testing using Apache POI. (5)
 - b) Explain Integrating Selenium with Jenkins, Maven, and Git. (5)
 - 13. a) Explain Selenium with BDD in detail. (5)
 - b) Discuss cloud-based testing platforms. (5)
 - 14. Discuss about the Case study automating a sample web application using Selenium end-to-end. (10)
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