**SOFTWARE TESTING ASSIGNMENT MODULE – 5**

Q 1.What is Automation Testing?

Ans. Automation Testing is the process of using software tools and scripts to automatically execute test cases, compare actual outcomes with expected results, and report defects — without human intervention.

It helps speed up testing, reduce manual effort, and improve test coverage and accuracy.

Q 2. Which Are The Browsers Supported By Selenium Ide?

Ans.

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| Browser | Supported | Notes |
| Google Chrome | Yes | Fully supported via Chrome Web Store extension |
| Mozilla Firefox | Yes | Fully supported via Firefox Add-ons site |
| Microsoft Edge | Yes | Install via Chrome Web Store or Edge Add-ons |
| Safari | No | Not officially supported by Selenium IDE |
| Internet Explorer | No | No support (obsolete and discontinued by Microsoft) |

Q 3. What are the benefits of Automation Testing?

Ans.

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| 1.Faster Execution |
| 2.Reusable Test Scripts |
| 3.Reduces Manual Effort |
| 4.Increases Test Coverage |
| 5.Improved Accuracy |
| 6.Detailed Reporting |
| 7.Supports CI/CD Pipelines |
| 8.Efficient Regression Testing |
| 9.Cost-Effective Long-Term |
| 10.Cross-Platform Testing |
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Q 4. What are the advantages of Selenium?

Ans.

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| 1.Open Source & Free |
| 2.Cross-Browser Testing |
| 3.Language Flexibility |
| 4.Supports Multiple Testing Types |
| 5.Supports Mobile Automation |
| 6.Continuous Integration Support |
| 7.Framework Integration |
| 8.WebDriver is Powerful |
| 9.Multi-OS Support |
| 10.Rich Community Support |

Q 5. Why testers should opt for Selenium and not QTP?

Ans.

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| **Factor** | **Selenium** | **QTP (QuickTest Professional)** |
| **Cost** | Free & Open Source | Commercial/License-based (Expensive) |
| **Language Support** | Java, Python, C#, JavaScript, Ruby, Kotlin, etc. | Only VBScript |
| **Browser Support** | Chrome, Firefox, Safari, Edge, Opera | Limited to Internet Explorer & legacy support for others |
| **Platform Support** | Windows, Linux, macOS | Windows only |
| **Test Coverage** | Web apps only (mobile with Appium) | Web + Desktop apps (native) |
| **CI/CD Integration** | Excellent (Jenkins, GitHub Actions, Bamboo, etc.) | Supported, but more complex and costly |
| **Mobile Support** | Yes (via Appium) | Limited and requires add-ons |
| **Community Support** | Very large, active community | Smaller, vendor-driven community |
| **Extensibility** | Highly extensible (can use any test frameworks) | Less flexible (mostly vendor-bound features) |
| **Execution Speed** | Fast and efficient for web tests | Slower and heavier due to desktop GUI dependencies |