QA Engineer Theory & Answer Prep Sheet

Tell me about yourself

I am a Quality Assurance Engineer with hands-on experience in functional, regression, and automation testing. In my previous roles at Mahorix Technologies and Boosta Investment Limited, I worked on web, mobile, and API projects, leveraging tools like JIRA, Postman, JMeter, and Python automation to improve software quality and reduce defects. I enjoy ensuring applications meet both business and user needs.

What is SDLC?

Software Development Life Cycle (SDLC) is a structured process followed for software development, covering phases such as requirement gathering, design, development, testing, deployment, and maintenance.

What is STLC?

Software Testing Life Cycle (STLC) defines the phases of testing: requirement analysis, test planning, test case development, environment setup, test execution, defect reporting, and test closure.

What is API Testing?

API testing validates the functionality, reliability, performance, and security of APIs. I have used Postman and Newman to validate API endpoints, check response codes, payloads, and performance under load.

What is Integration Testing?

Integration testing checks how different modules or services work together. At my previous role, I performed integration testing between frontend, backend, and third-party services like payment gateways.

Types of Testing

• Functional Testing • Regression Testing • Smoke Testing • Sanity Testing • Performance/Load Testing • Security Testing • UAT (User Acceptance Testing) • Integration Testing

Automation in QA

I developed and maintained automation scripts in Python, reducing manual testing effort by 40%. Automation is useful for regression testing, repeated scenarios, and performance validation.

Performance & Load Testing

I used Apache JMeter to simulate concurrent users and measure system performance. This helped identify bottlenecks and improve performance by 15% in production systems.

Agile Methodology

I actively participated in Agile ceremonies like sprint planning, daily stand-ups, and retrospectives. This helped me align QA activities with business priorities and collaborate effectively with developers and product owners.

Test Case Documentation

I designed and executed 100+ test cases for web and API projects, ensuring coverage of edge cases and reducing post-release defects. I also introduced reusable documentation templates that improved onboarding speed by 50%.

Defect Management Tools

I used JIRA and ClickUp to log detailed defect reports with reproducible steps, screenshots, and severity ratings. This streamlined collaboration with developers and reduced debugging time.