



SNS COLLEGE OF TECHNOLOGY
Kurumbapalayam (Po), Coimbatore – 641 035
An Autonomous Institution

Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23IT0201 Software Testing

Unit V : TEST AUTOMATION

PART A – (2 Marks / Basic Level)

No	Question	Bloom Level	Industry Mapping
1	Define software test automation.	Remember	Used in companies like TCS, Infosys for regression testing
2	List any two automation tools.	Remember	Selenium, Cypress widely used in IT services
3	What is regression testing?	Understand	Critical in product companies like Google
4	State the need for automation testing.	Understand	Used in Agile teams at Amazon
5	What is a test script?	Remember	Used in Selenium automation projects
6	Define test metrics.	Remember	Used in QA dashboards in Accenture
7	What is framework in automation?	Understand	Hybrid frameworks in Capgemini
8	Mention any two challenges in automation.	Understand	Maintenance issues in real-time projects
9	What is CI/CD integration?	Understand	Jenkins pipelines in DevOps companies
10	What is test coverage?	Remember	Used in quality measurement in Microsoft

◆ PART B – (5 Marks Questions)

No	Question	Bloom Level	Industry Mapping
11	Explain the scope of automation testing.	Understand	Large-scale systems like Flipkart
12	Describe the skills required for automation testing.	Analyze	Hiring requirements in Wipro
13	Compare manual testing vs automation testing.	Analyze	Decision-making in startups
14	Explain test automation architecture.	Understand	Framework design in Cognizant
15	Discuss requirements of a test tool.	Analyze	Tool selection in IBM
16	Explain challenges in automation testing.	Analyze	Maintenance issues in real projects
17	Describe test metrics and measurements.	Apply	KPI tracking in QA teams
18	Explain productivity metrics in testing.	Apply	Used in project evaluation
19	Write steps to design an automation framework.	Apply	Used in Selenium projects
20	Explain defect tracking in automation.	Understand	JIRA usage in industry

◆ PART C – (15 Marks Questions)

No	Question	Bloom Level	Industry Mapping
21	Design a test automation framework for a web application.	Create	Real-time Selenium framework development
22	Analyze the challenges faced in automation and suggest solutions.	Evaluate	Industry problem-solving in QA roles
23	Develop test cases and automate using any tool.	Apply/Create	Practical skill in IT companies
24	Evaluate different automation tools and justify selection.	Evaluate	Tool comparison in companies like Infosys
25	Explain architecture of automation framework with diagram.	Understand/Create	Used in enterprise systems