



**Parul University**  
**Faculty of Engineering and Technology**  
**Parul Institute of Engineering and Technology**  
**Computer Science Engineering(AI&DS) Department**

<b>Subject Name</b>	Software Eng.	A.Y	2025-26
<b>Subject Code</b>	303105253	Semester	IV

**Assignment-II**

<b>Sr No</b>	<b>Question</b>	<b>COs</b>	<b>B.T</b>	<b>Competence</b>
1	Define software testing.	CO1	Remember	Define software testing
2	What is meant by black-box testing?	CO1	Understand	Explain black-box testing
3	Define Software Quality Assurance (SQA).	CO1	Remember	Define SQA
4	What is the purpose of a test plan?	CO2	Understand	State the purpose of a test plan
5	What is a dependable system?	CO2	Understand	Explain dependable systems
6	Explain the psychology of testing.	CO2	Apply	Explain psychology of testing
7	Differentiate between Quality Assurance and Quality Control.	CO3	Analyze	Differentiate QA and QC
8	What are the different levels of software testing?	CO3	Understand	List levels of testing
9	Write short notes on ISO 9000 and ISO 9001 quality standards.	CO3	Apply	Write notes on ISO 9000 & 9001
10	Explain the concept of resilience engineering in dependable systems.	CO4	Analyze	Explain resilience engineering
11	Explain black-box and white-box testing techniques with suitable examples.	CO4	Analyze	Compare black-box & white-box testing with examples
12	Describe the complete software testing process including test planning, test case design, and execution.	CO4	Apply	Describe software testing process
13	Discuss the various approaches to Software Quality Assurance (SQA) and its importance in software engineering.	CO5	Evaluate	Discuss SQA approaches and importance

<b>14</b>	What are CASE tools? Explain their role in software development and testing.	CO5	Apply	Explain CASE tools and their role
<b>15</b>	Explain the advanced software engineering paradigms — <b>Component-Based, Service-Oriented, Distributed, and Real-Time Software Engineering</b> — with suitable examples.	CO6	Evaluate	Explain advanced software engineering paradigms with examples