Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER - VI EXAMINATION- SUMMER-2023

Subject Code: 2668602   **Date: 19/06/2023**
Subject Name: Software Testing
Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make Suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Use of simple calculators and non-programmable scientific calculators are permitted.**

Q.1	**(a)**	Do as Directed.	**07**
		1. Define Verification.	
		2. List out components of SQA.	
		3. Define STLC.	
		4. Define Automation Testing.	
		5. List Software quality factors.	
		6. Difference between Black Box Testing and White Box Testing	
		7. Write any five guidelines to create good test case.	
	(b)	Define Software. Explain software testing strategies in detail.	**07**
Q.2	**(a)**	Explain Object-oriented model in detail.	**07**
	(b)	Define Testing. Explain STLC in detail.	**07**
		OR	
	(b)	Explain training and certification process.	**07**
Q.3	**(a)**	Explain the process of defining software quality metric.	**07**
	(b)	Explain Prototype model in detail	**07**
		OR	
Q.3	**(a)**	List out any five types of CASE Tools. Explain components of CASE tools in detail.	**07**
	(b)	Define Black-box testing. Differentiate Equivalence partitioning and Boundary Value analysis techniques with example.	**07**
Q.4	**(a)**	Give the difference between procedure and work instruction. Explain CAPA process.	**07**
	(b)	What is Metrics? Differentiate Product and Process metric.	**07**
		OR	
Q.4	**(a)**	List out major Software Quality Assurance Activities. Explain any five activities in detail.	**07**
	(b)	List out pre-project software quality components and explain how it can be helpful in SQA activities.	**07**
Q.5	**(a)**	Explain the extended classic model of cost of quality.	**07**
	(b)	Advantages and disadvantages of automated tests.	**07**
		OR	
Q.5	**(a)**	Create any five Test Cases for Online Shopping System.	**07**
	(b)	Write down any seven mistakes to avoid at the time of Test case Design.	**07**

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