GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VI - EXAMINATION –WINTER-2022

Subject Code: 2668602   **Date: 14/12/2022**
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.

Q.1	**(a)**	Explain the software testing process.	**07**
	(b)	Describe the software quality challenge.	**07**
Q.2	**(a)**	List and explain software quality factors.	**07**
	(b)	Write down and explain the components of the software quality assurance system.	**07**
		OR	
	(b)	Discuss the contract review	**07**
Q.3	**(a)**	What is black box testing? Explain any one black box testing strategy.	**07**
	(b)	Discuss the need for white box testing as a software testing technique.	**07**
		OR	
Q.3	**(a)**	Why reviews are required in software testing?	**07**
	(b)	What are the phases in Software Testing Life Cycle? Explain in brief.	**07**
Q.4	**(a)**	How can we assure the quality of software maintenance components?	**07**
	(b)	Write a short note on procedures and work instructions.	**07**
		OR	
Q.4	**(a)**	Justify the need for documentation control in an SQA framework.	**07**
	(b)	Give an overview of software quality metrics.	**07**
Q.5	**(a)**	How can we calculate the cost of software quality?	**07**
	(b)	Differentiate between manual and automation testing. When should one use automation testing?	**07**
		OR	
Q.5	**(a)**	Explain CASE tools and their effect on software quality.	**07**
	(b)	Analyze the need for staff training and certification.	**07**

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