GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VI- EXAMINATION –SUMMER-2024

Subject Code: 2668602   **Date: 14/05/2024**

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)**	What is Software quality? Discuss factors affected to the software quality.	**07**
	(b)	Discuss software quality challenges in brief.	**07**
Q.2	**(a)**	List out components of SQA. Which are the pre-project software quality components? Explain Contract review in detail.	**07**
	(b)	Discuss spiral model in software testing with example.	**07**
		OR	
	(b)	Discuss object oriented model in detail.	**07**
Q.3	**(a)**	Discuss Software testing strategies in detail.	**07**
	(b)	What is Black box testing? Give the difference between Equivalence Partitioning and Boundary Value Analysis Testing.	**07**
		OR	
Q.3	**(a)**	What is glass box testing? Discuss basis path testing with example.	**07**
	(b)	What is test case? Prepare any five appropriate test cases for online shopping system.	**07**
Q.4	**(a)**	Explain STLC process in detail.	**07**
	(b)	What is a work instruction? Discuss project management work instructions briefly.	**07**
		OR	
Q.4	**(a)**	Discuss training and certification process in detail.	**07**
	(b)	What is corrective and preventive action? Discuss CAPA process in detail.	**07**
Q.5	**(a)**	What is Metric? List out types of metric. Explain any two Product metrics in detail.	**07**
	(b)	List out and describe each four categories to measure cost of quality in detail.	**07**
		OR	
Q.5	**(a)**	Discuss the process of defining software quality metrics.	**07**
	(b)	What is Integration Testing? Differentiate stub and driver with example.	**07**

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