Enrolment No. /Seat No.: _____

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

Subject Code:2668602   **Date: 21/11/2024**
Subject Name: Software Testing
Time:02:30 PM TO 05:00 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. Definesoftware testing.	
		2. List out components of SQA.	
		3. Differentiate validation and verification.	
		4. Define black-Box testing.	
		5. STLC stands for _____.	
		6. Define software faults and software failures.	
		7. Define Automation Testing.	
Q.1	**(b)**	Explain the structure of McCall's classic model.	**07**
Q.2	**(a)**	List out major software quality assurance activities. Explain any five in details.	**07**
Q.2	**(b)**	List out pre-project software quality components and explain how it can be helpful in SQA activities.	**07**
		OR	
Q.2	**(b)**	Explain in detail Contract review and Development quality plans.	**07**
Q.3	**(a)**	Explain the prototyping model in details.	**07**
Q.3	**(b)**	Write a detail note on peer reviews process.	**07**
		OR	
Q.3	**(a)**	Explain spiral model in detail.	**07**
Q.3	**(b)**	Explain software testing strategies in detail.	**07**
Q.4	**(a)**	Create any five test case for E-commerce system.	**07**
Q.4	**(b)**	List out any five type of case tools. Explain components of case tools in detail.	**07**
		OR	
Q.4	**(a)**	Explain alpha and beta site testing with advantage and disadvantages.	**07**
Q.4	**(b)**	Specify roles and responsibilities of QA Engineer, Tester, Test-lead/manager and scrum master of software testing department.	**07**
Q.5	**(a)**	Explain training and certification process.	**07**
Q.5	**(b)**	Explain the process of defining software quality metric.	**07**
		OR	
Q.5	**(a)**	Explain the extended classic model of cost of quality.	**07**
Q.5	**(b)**	What is metrics? Differentiate product and process metric.	**07**

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