GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER -II EXAMINATION –WINTER-2021

Subject Code: 629406　　　　　　　　　　**Date: 23/12/2021**
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.

Q.1	**(a)**	Answer the following questions.	**07**
		1. List out the component of software.	
		2. What is Software Failure?	
		3. What is different between validation and validation?	
		4. What is Glass box testing?	
		5. Define Test Case.	
		6. Identify two major software risk items.	
		7. What kind of responsibility of software tester?	
	(b)	Explain classification of the causes of software errors.	**07**
Q.2	**(a)**	Explain the difference between procedure and work instructions.	**07**
	(b)	Explain elements of the development plan & quality plan.	**07**
		OR	
	(b)	Different between software quality assurance vs software quality control.	**07**
Q.3	**(a)**	What is automation testing? List the main type of automated software test and discuss it.	**07**
	(b)	Explain the implementation of alpha site and beta site test and discuss their advantages and disadvantages.	**07**
		OR	
Q.3	**(a)**	Describe the concept of black box testing and white box testing, and discuss their advantages and disadvantages.	**07**
	(b)	Explain Issues of controlled document storage and retrieval.	**07**
Q.4	**(a)**	Explain the two contract review stages and identify the difficulties in performing a major contract review.	**07**
	(b)	Discuss between bottoms-up and top-down testing strategies in details.	**07**
		OR	
Q.4	**(a)**	Describe the tasks performed by the head of the SQA unit.	**07**
	(b)	Explain direct and indirect objectives of the review methodologies.	**07**
Q.5	**(a)**	Explain Corrective and preventive action process.	**07**
	(b)	Explain structure of McCall`s classic factor model.	**07**
		OR	
Q.5	**(a)**	Describe the various software development models in details.	**07**
	(b)	Explain Development plans and quality plans for internal projects.	**07**

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