Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated – SEMESTER – VII • EXAMINATION – SUMMER 2018

Subject Code: 4470631   **Date: 10-May-2018**
Subject Name: Software Testing
Time: 02.30 pm to 5.00 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 Following**	**07**
		1. Define: Error	
		2. Define: Bug	
		3. Distinguish between static testing and dynamic testing	
		4. Define: UAT	
		5. Define: Smoke Testing	
		6. Define: Sanity Testing	
		7. _____ testing is done by the people who doesn't have even good IT knowledge.	
	(b)	List functional testing. Explain any three in detail.	**07**
Q.2	**(a)**	Discuss in detail how we can improve writing test case in a better way. Provide guidelines for the same.	**07**
	(b)	Describe in detail which content can be included in test policy document.	**07**
		OR	
	(b)	List validation activities and discuss any five in detail.	**07**
Q.3	**(a)**	Answer Following	**07**
		1. Describe in detail how cost of quality can help in improving or maintaining quality of product.	
		2. Discuss critical path first in detail.	
	(b)	Design a test case to check performance of any website. Conclude steps to perform it.	**07**
		OR	
Q.3	**(a)**	Design a kanban board for new user registration process along with all possible validations.	**07**
	(b)	Specify roles and responsibilities of QA Engineer, Tester, Test-lead/manager and scrum master of software testing department.	**07**
Q.4	**(a)**	Describe in detail how testing during SDLC is carried out.	**07**
	(b)	Discuss in detail scrum framework.	**07**
		OR	
Q.4	**(a)**	Explain waterfall model in detail.	**07**
	(b)	Answer Following	
		1. Discuss in detail why root cause analysis is important for software testing.	**05**
		2. Write formula to calculate MTBF. Also give one example.	**02**

Q.5 **(a)** List non-functional testing and explain any four in detail.   **07**
     (b) Answer following   **07**
         1.   Write a short note on ODC.
         2.   Explain in detail TDD model.

OR

Q.5 **(a)** Conclude: why requirement testing and design testing is important for software   **07**
          testing.
     (b) Describe in detail steps for performing stress testing of any web-site.   **07**

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