Paper / Subject Code: 32125 / Department Level Optional Course-I: Software Testing & Quality Assurance

	(3 h	rs.)	Maximum Marks = 80	
1. 2. 3.	Assulli	e su	No. 1 is compulsory and solve any THREE questions from remaining questions itable data if necessary and neat diagrams	02/1
	Q1.		Attempt any four	Marks
		a.	Explain lifecycle of bugs with a neat diagram.	5
		b.	Explain the structure of the testing group.	5
		c.	Explain the method to perform loop testing in software.	5
		d.	Explain the need of test automation.	5
		e.	Discuss the challenges related to agile testing.	5
	· Q2.	a.	A Program accepts a, b, c as 3 sides of a triangle. The range of a, b, c is [1,100]. Program outputs type of triangle as one of scalene, isosceles, equilateral and not a triangle which is formed by a, b, c. Design test cases using Boundary Value Checking (BVC) and Robustness Testing Method.	
		Ъ.	Discuss regression testing.	Į0
	- Q3.	a.	Explain Software Testing Life Cycle in detail.	10
		b	What is a test plan document? Explain the components of test plan document.	10
	. Q4	a.	Consider a program to calculate the factorial of a number. It consists of main() program and the module fact(). Calculate the individual cyclomatic complexity of main() and fact() and then the cyclomatic complexity of whole program.	
	4		int fact(int);	
3			main() { int number;	
	3.		 clrscr(); printf("Enter the number whose factorial is to be found"); scanf("%d",&number); if(number <0) 	
	THE STATE OF THE S		5. printf("Factorial can't be defined for this numebr"); 6. else 7. printf("Factorial is %d",fact(number));	
			8.} int fact(int number) {	
			int index;	

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- int product=1;
- 2. for(index=1; index<=number; index++)
- product=product*index;
- return(product);
- 5.}
- b. Explain McCall's quality factors in detail.
- Q5 a. Explain Object-oriented testing.
 b. Explain acceptance testing in detail.
- Q6 a. Explain ISO 9000:2000.
 - Explain goals of software testing.

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