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EXAMINATION: JUNE - 2022 SEMESTER - III/V

Sub: Software Testing and Quality Assurance / SQT

(BCA-345-18 / BCA – 345-20/BCA-CS-345-20/BCA-543)

(BCA-343-10 / BCA = 343-20/BCA-CS-343-20/BCA-343)				
Date	: 1	7/06/2022	Total Marks: 60	Time: 10.00 am to 12.30 pm
	 Instructions: All questions are compulsory unless and otherwise stated. Bold figures to the right of every question are the maximum marks for that question. Candidates are advised to attempt questions in order. Answers written illegibly are likely to be marked zero. Use of scientific calculators, Log tables, Mollier Charts is allowed. Draw neat and labeled diagrams wherever necessary. 			
Q.1.	Fil	l in the blanks.		(5)
	1.	1. Hardware faults are mostly physical faults, while software faults are		
		a) Design faults	b) Errors	
		c) Bugs	d) Viruses	3
		2 is a process that makes it sure that the software product is developed the		
	rig	ht way.	h) Varifia	ation
		a) Validationc) Testing	b) Verific d) Walkth	
		c) Testing	d) Walkii	nough
	3.	3 is a process of finding out if the product being built is right?		
		a) Verification	b) Testing	5
		c) Validation	d) Walkth	rough
	4. Ideal value of DRE is			
		a) 0	b) -1	
		c) infinity	d) 1	
	5.	is a process of exe	is a process of executing a program with intent of finding errors.	
		a) Testing	b) Walkth	
		c) Validation	d) Verifac	cation
Q.2.	Sta	ate True/False.		(5)
	1. Software Engineers are not involved in SQA.			
	2. In Top Down Integration testing Drivers are used.			
	3.	3. In Bottom Up Integration Testing Stubs are used.		
	4.	4. Stress Testing involves testing in normal operational capacity.		
	5	5. Static analysis is done by examining the code with executing the program.		
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Q.3. Answer the following. (Solve any 5)

(10)

- 1. List out any four Notable SQA tools.
- 2. Define Unit Testing.
- 3. List out any four SQA Standards Organizations.
- 4. What are the components of Testing Workbench?
- 5. Define Acceptance Testing.
- 6. Define CAST.

Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. Differentiate between Black Box Testing and White Box Testing.
- 2. Explain need of SQA in detail.
- 3. Write a note on Test Case and Test case designing.
- 4. Explain types of Reviews.
- 5. Differentiate between Manual and Automated Testing.
- 6. Explain Security Testing along with security testing measures.
- 7. Define Performance Testing. Along with the types of Performance Testing?

Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Define Verification along with Processes involved in it. Define Validation along with processes involved in it.
- 2. Explain 11 steps of Testing Process.