PRN:		Course Code :	BCA209

Second-Year B.C.A.(Backlog) Examination Summer 2023

Software Quality Assurance and Testing

Day and Date: Wednesday, 21/06/2023 Max Marks: 100

Time : 2.00 to 5.00 PM Duration: 03 hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Define s/w review and its types.	08	L1	**CO1**
	b)	Memorize the stages of Software Development Life Cycle phases.	08	L1	**CO1**
		OR			
	b)	Define errors and state how errors are useful in testing with its nature	08	L1	**CO1**
Q.2		**Attempt the following**			
	a)	Differentiate between Black Box testing and white box testing.	08	L4	**CO2**
	b)	Memorize strategic approach for software testing.	08	L1	**CO2**
		OR			
	b)	List different coverages in test case design with its explanation.	08	L1	**CO2**
Q.3		**Attempt any two from the following**			
	a)	Demonstrate the concept of Function point Analysis with its example.	08	L3	**CO3**
	b)	Discuss the concept of Cyclomatic Metric with a suitable example	08	L3	**CO3**
	c)	Demonstrate the following Concepts with respect to Halstead metrics N1, N2,n1,n2 for displaying odd and even numbers in C Program.	08	L3	**CO3**
Q.4		**Attempt any two of the following**			
	a)	Demonstrate the Fishbone diagram with a suitable example	08	L3	**CO3**
	b)	Explain Scatter diagram with suitable example	08	L2	**CO3**
	c)	Use Defect reporting concept to improve Defect Management Process	08	L3	**CO3**
Q.5		**Attempt any Two of the following**			
	a)	Explain SIX sigma in Software Quality Assurance	09	L2	**CO3**
	b)	Compare Quality Assurance and Quality Control.	09	L2	**CO3**
	c)	Discuss ISO Process.	09	L2	**CO3**
Q.6		**Attempt any Two of the following**			
	a)	Discuss functional testing and non-functional testing.	09	L2	**CO4**
	b)	Explain Database testing	09	L2	**CO4**
	c)	Explain JMeter tool in Software testing	09	L2	**CO4**

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