PRN:		Course Code :	BCA209

Second Year **BCA** End Semester Examination Summer 2024

Software Testing & Quality Assurance

Day and Date: 31 MAY 2024, Friday Max Marks: **100**

Time : 10:30AM To 01:30PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	COs
Q.1		**Attempt the following**			
	a)	Summarize testing during development life cycle.	08	L2	CO2
	b)	Explain testing? Define fundamental test process.	08	L2	Co2
		OR			
	b)	What Software Quality Factors?	08	L1	CO1
Q.2		**Attempt the following**			
	a)	Define Software Testing, Unit Testing, Integration Testing, Validation Testing, System Testing.	08	L2	CO1
	b)	Explain Black Box Testing and its type	08	L2	CO1
		OR			
	b)	Explain Testing Fundamentals and Test Case Design.	08	L2	CO1
Q.3		**Attempt any two from the following**			
	a)	Explain Concept and Developing Metrics.	08	L2	CO1
	b)	Explain Different types of Metrics.	08	L2	CO1
	c)	Explain the Complexity Metrics.	08	L2	CO1
Q.4		**Attempt any two from the following**			
	a)	Definition of Defects, Defect Management Process, Defect Reporting.	08	L3	CO1
	b)	Explain Defect Management And Quality Improvement.	08	L2	CO1
	c)	Explain Pareto Diagrams, Cause-effect Diagrams, Scatter Diagrams, Run charts	08	L2	CO1
Q.5		**Attempt any Two of the following**			
	a)	Define Formal Technical Reviews, Formal approaches to Statistical Quality Assurance (SQA).	09	L3	CO1
	b)	Explain Software Reliability and SQA Plan.	09	L2	CO1
	c)	Explain the ISO 9001 Quality Standard, Six sigma.	09	L2	CO1
Q.6		**Attempt any Two of the following**			
	a)	What Quality Cost Measurement?	09	L1	CO2
	b)	Explain Utilizing Quality Costs for Decision Making, Testing Tools.	09	L2	CO1
	c)	Define Junit, Apache Jmeter, Winrunner, Loadrunner, Rational Robot	09	L3	CO1

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