## PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE (AUTONOMOUS) III B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH/APRIL – 2023 SOFTWARE TESTING

(CSIT Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B) <u>PART-A</u>

Answer all the questions in Part-A (5X2=10M)\_

Q.No.		Questions	Marks	CO	KL
1.	a)	Briefly Discuss about purpose of testing?	[2M]	1	
	b)	Define Predicate. Give an example for Path Predicates?	[2M]	2	
	c)	Define Flow anomaly detection?	[2M]	3	
	d)	What is Good and bad state graphs?	[2M]	4	
	e)	What are regression and confirmation Testing?	[2M]	5	

## <u>PART-B</u> Answer One Question from each UNIT (5X10=50M)

Q.N	No.	Questions	Marks	CO	KL				
UNIT-I									
2.		What are the phases involved in software testing life cycle?	[5M]	1					
		Discuss about goals of software testing.	[5M]	1					
OR									
3.		Explain the functional testing with example?	[5M]	1					
		Differentiate Functional and Non-Functional testing?	[5M]	1					
UNIT-II									
4.		Write notes on Path predicates and achievable paths?	[5M]	2					
		Distinguish between Control Flow and Transaction flow.	[5M]	2					
OR									
5.		Explain about application of dataflow testing?	[5M]	2					
		What is transaction instrumentation in transaction flow? Explain with	[5M]	2					
		example.							
UNIT-III									
6.		Explain applications for Reduction Procedure?	[5M]	3					
		Explain about path sensitization with example?	[5M]	4					
OR									
7		Discuss about Regular expressions and flow anomaly detection in	[10M]	3					
/.		detail.							
UNIT-IV									
8.		What is KV-Chart? Draw KV-chart for 3 variables.	[5M]	4					
		Compare structured and unstructured flow graphs and illustrate with	[5M]	4					
		an example.			<u> </u>				
OR									
9.	a)	Explain State testing and testability tips?	[5M]	4					
	b)	Explain good and bad state graph with suitable example.	[5M]	4					

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