Code No: P18ADE02

HALL TICKET NUMBER

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)
III B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, March/April – 2023
SOFTWARE TESTING
(AIDS Branch)

Time: 3 hours   Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

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

Q.No.		Questions	Marks	CO	KL
1.	a)	What is a decision table?	[2M]	1	2
	b)	What is All Uses Strategy (AU) in data flow testing?	[2M]	2	2
	c)	State HUANG's Theorem	[2M]	3	1
	d)	Define a state in the context of state graph.	[2M]	4	1
	e)	What is matrix of a graph?	[2M]	5	2

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.No.		Questions	Marks	CO	KL
		UNIT-I			
2.		Illustrate equivalence class testing with suitable examples.	[10M]	1	3
		OR			
3.		Discuss the model for testing with a neat diagram.	[10M]	1	2
		UNIT-II			
4.		Explain the path sensitizing and heuristic procedures.	[10M]	2	2
		OR			

5.		Explain the following in detail:
		    i. Data flow testing
		    ii. Data flow machines
			[10M]	2	2

		UNIT-III			
6.		Demonstrate the reduction procedure with suitable example.	[10M]	3	3
		OR			
7.		Illustrate the method to solve generic flow-anomaly detection problem with suitable example.	[10M]	3	3
		UNIT-IV			
8.		What are KV charts? How they can be used to reduce expressions? Explain with example.	[10M]	4	3
		OR			
9.		What is a state graph? How they can be used in transition testing? Illustrate with suitable example.	[10M]	4	3
		UNIT-V			

10.		Explain the following relations:
		   i. Transitive
		   ii. Reflexive
		   iii. Symmetric
		   iv. Anti-symmetric
		   v. Equivalence
			[10M]	5	2

		OR			
11.		Describe the test data generation using Generic Algorithm.	[10M]	5	2

******