

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022
SOFTWARE TESTING METHODOLOGIES
(CSE Branch)

Time: 3 hours

Max. Marks: 60

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

PART-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) List the goals of software testing.	[2M]	1	1
	b) Define path sensitization? Give an example.	[2M]	2	1
	c) Write the limitations of path testing.	[2M]	3	1
	d) What is logic based testing?	[2M]	4	1
	e) What is a rapid test script wizard and what is its use?	[2M]	5	1

PART-BAnswer **One Question from each UNIT (5X10=50M)**

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Discuss about life cycle of Testing.	[5M]	1	6
	b) Explain Testing Vs Debugging Dichotomy?	[5M]	1	2
OR				
3.	Write notes on Structural bugs in Testing.	[5M]	1	1
UNIT-II				
4.	a) Compare data flow and path flow testing strategies.	[5M]	2	5
	b) Distinguish between Control Flow and Transaction flow.	[5M]	2	4
OR				
5.	a) Explain different data object states in data flow graphs.	[5M]	2	2
	b) What is transaction instrumentation in transaction flow? Explain with example.	[5M]	2	1
UNIT-III				
6.	Explain the reduction procedure algorithm with an example?	[10M]	3	2
OR				
7.	Discuss about Regular expressions and flow anomaly detection in detail.	[10M]	3	6
UNIT-IV				
8.	a) What is KV-Chart? Draw KV-chart for 3 variables.	[5M]	4	1
	b) Compare structured and unstructured flow graphs and illustrate with an example.	[5M]	4	5
OR				
9.	a) Explain good and bad state graph with suitable example.	[5M]	4	2
	b) Explain state testing in detail.	[5M]	4	2
UNIT-V				
10.	a) Briefly explain about matrix of graph relations.	[5M]	5	2
	b) Elaborate node reduction algorithm with an example.	[5M]	5	6
OR				

11.	a)	Categorize various testing tools necessary for testing.	[5M]	5	4
	b)	What are the uses of win-runner?	[5M]	5	1
