Code No.: AI621PE

R20

H.T.No.

8 R

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - June- 2024 SOFTWARE TESTING METHODOLOGIES (CSM)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A (20 Marks)	
1. a)	Define Bug.	[2M]
b)	Define Path Testing.	[2M]
c)	What is Nice Domain?	[2M]
d)	Define Transaction flow testing.	[2M]
e)	Define Decision Tables.	[2M]
f)	What do you mean by KV charts.	[2M]
g)	Define State Graphs.	[2M]
h)	What is Good State Graphs.	[2M]
i)	Define the matrix of a graph.	[2M]
j)	Define Node Reduction algorithm.	[2M]
	PART-B (50 Mar	rke)
2.	Describe the concept of flow graphs in software testing.	[10M]
	OR	[TOWI]
3.	Explain the taxonomy of bugs in software testing.	[10M]
4.	Describe different transaction flow testing techniques. OR	[10M]
5.	Analyze how the characteristics of domains and interfaces impact the testability of software systems.	[10M]
6.	Discuss the significance of specifications in logic-based testing. OR	[10M]
7.	Explain how the reduction procedure helps simplify and manage the complexity of testing multiple paths.	[10M]
8.	Evaluate how state graphs are used to represent the behavior and transitions of a software system.	[10M]
	OR	
9.	Explain the concept of fault-based testing in state and transition testing.	[10M]
10.	Explain the concept of a matrix of a graph.	[10M]
	OR	
11.	Elaborate WinRunner as a tool for software testing.	[10M]