Code No.: CS743PE R20 H.T.No. [ ][ ][8][R][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Regular) - November- 2024
SOFTWARE TESTING METHODOLOGIES
(CSE)

[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)	List any two goals of testing.	[2M]
b)	Define consequences of bugs.	[2M]
c)	Define Path testing.	[2M]
d)	What is domain testing?	[2M]
e)	What is path instrumentation?	[2M]
f)	Define Alpha and Beta Testing.	[2M]
g)	What is Good State graph?	[2M]
h)	Define dead state.	[2M]
i)	Write the Applications of graph matrices.	[2M]
j)	What is connection Matrix.	[2M]

	PART-B	**(50 Marks)**
2.	a)Explain the concept testing blindness and its types with example.	[5M]
	b)Discuss about of path instrumentation method and its types.	[5M]

OR

3.	Explain about Taxonomy of Bugs with example.	[10M]

4.	Discuss in detail about nice domains and ugly domains with suitable examples and explain domain testing.	[10M]

OR

5.	a) What are the restrictions of domain testing? Explain.	[5M]
	b) How to test two-dimensional domains? Explain.	[5M]

6.	Explain the four parts of Decision Table and their use in Decision Table based testing.	[10M]

OR

7.	a) Describe lower path count arithmetic with example.	[5M]
	b) Write motivational overview of logic-based testing.	[5M]

8.	Differentiate between good state graphs and bad state graphs. Also discuss about finite state machine.	[5+5M]

OR

9.	Explain State graphs, inputs and transition with example.	[10M]

10.	a)What are some situations in which state testing may prove useful? Explain.	[5M]
	b) What are properties of relations? Explain.	[5M]

OR

11.	Explain about Power of matrix along with example.	[10M]

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