Code No.: CS833OE

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS Regular
IV-B.TECH-II-Semester End Examinations (Supply) - April - 2024
SOFTWARE TESTING METHODOLOGIES

(ECE)

[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) b) c) d) e) f) g) h) i)	Define Debugging. List out the consequences of bugs. Give an example of forgiving data flow anomaly state graph. What is mean by interface testing? Write the limitations of path testing. What is mean by Path expression? Define Transition testing. What is the purpose of state graph and what does it represents? Give the example for usage of node reduction algorithm. What is adjacency matrix of a graph?	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
2.	PART-B What is the purpose of testing and add a note on the principles of test case design?	(50 Marks) [10M]
3.a) b)	OR Write about path expressions and path predicates. What are the heuristics procedures for sensitizing paths?	[5M] [5M]
4.a)	Explain data flow testing with an example and explain its generalizations limitations.	
b)	Explain the terms Dicing, data flow and debugging. OR	[5M]
5.	Analyze the Interface testing, Interior point. Boundary point.	[10M]
6.a) b)	Explain about reduction procedure in path testing. Write the specifications of logic based testing.	[5M] [5M]
7.	OR Give an account of the usage of regular expression in flow anomaly design.	[10M]
8.	Explain state testing and software implementation issues in state testing in a deta OR	iled. [10M]
9.a) b)	1 1 1 1 Contract machine	[5M] [5M]
10.a) b)	What are the graph matrices and explain their applications.	[5M] ween [5M]
11.a) b)	Write about different types of building tools in software testing.	[5M] e. [5M]
