Code No.: R22AI621PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–II–Semester End Examinations (Regular) - June- 2025
SOFTWARE TESTING METHODOLOGIES
(CSM)

[Time: 3 Hours] **[Max. Marks: 60]**

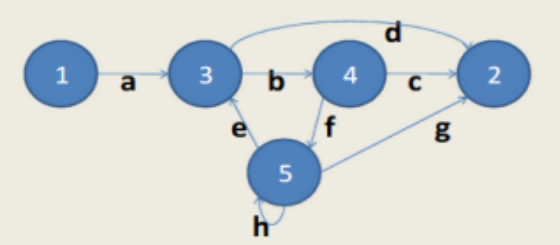
Note: This question paper contains two parts A and B.
Part A is compulsory which carries 10 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A **(10 Marks)**

1. a)	Compare testing and debugging.	[1M]
b)	What is a path predicate in software testing?	[1M]
c)	Define domain testing?	[1M]
d)	What is horrible loop?	[1M]
e)	Define regular expression with example	[1M]
f)	What is path product?	[1M]
g)	What is state graph?	[1M]
h)	Define continuous testing?	[1M]]
i)	Explain testability tips in software testing.	[1M]
j)	Explain loop term step in the context of node reduction procedure.	[1M]

PART-B **(50 Marks)**

2.	Explain in detail about Taxanomy of Bugs.	[10M]
	OR	
3.	Discuss path sensitizing in software testing.	[10M]
4.	List the elements of flow graph and explain each element with suitable diagram.	[10M]
	OR	
5.	Define data flow testing? Explain data flow testing strategies.	[10M]
6.	Explain data flow anomalies with example.	[10M]
	OR	
7.	Discuss logic based testing in software testing.	[10M]
8.	What are the types of bugs that can cause state graphs?	[10M]
	OR	
9.	Discuss finite state machine and List out the advantages of state testing.	[10M]
10.	Write and explain ‘Node Reduction’ algorithm.	[10M]



OR

11.	Discuss Win-runner and JMeter.	[10M]

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