

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Supply) - December- 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

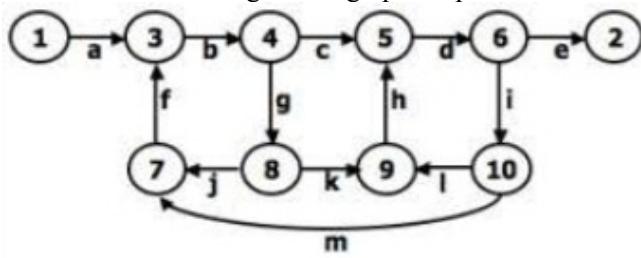
(10 Marks)

1. a)	Difference between dynamic data and static data.	[1M]
b)	Define testing.	[1M]
c)	Why is interface testing important?	[1M]
d)	What is path predicate? Give example.	[1M]
e)	List applications of regular expression.	[1M]
f)	What is data flow anomaly?	[1M]
g)	Define modularity.	[1M]
h)	List uses of early testing.	[1M]
i)	Write about matrix of graph.	[1M]
j)	What is the use of WinRunner (Testing Tool)?	[1M]

PART-B

(50 Marks)

2.	Discuss the model for testing.	[10M]
OR		
3.	Elaborate on applications of path testing with examples.	[10M]
4.	Consider the following flow – graph. Explain the reduction procedure algorithm.	[10M]



OR

5.	What is transaction flow testing? Explain with example.	[10M]
6.	Explain KV charts in detail with given example.	[10M]

$$F(A, B, C, D) = \sum (0, 2, 4, 7, 9, 12, 14)$$

OR

7.	What are decision tables? Illustrate the applications of decision tables. How is a decision table useful in testing? Explain with an example.	[10M]
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8.	What are the principles of state testing. Discuss advantages and disadvantages.	[10M]
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OR

9.	Differentiate between good state graphs and bad state graphs?	[10M]
10.	What are graph matrices and their applications? Explain in detail.	[10M]

OR

11.	Discuss about matrix representation software and its building tools.	[10M]
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