Code No.: AD303PC

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-B.TECH-I-Semester End Examinations (Supply) – June - 2025 SOFTWARE ENGINEERING (AI&DS)

[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.

	<u>PART-A</u>	(20 Marks)
1. a)	Give the limitations of Spiral model.	[2M]
b)	Define Software myths.	[2M]
c)	What is the purpose of SRS?	[2M]
d)	Differentiate context model and behavioral model.	[2M]
e)	Define multiplicity.	[2M]
f)	How to represent the timeline of the object? Define Validation Testing.	[2M]
g) h)	List out different metrics for assessing product quality.	[2M] [2M]
i)	Define Software Reliability.	[2M]
j)	Why to conduct software reviews?	[2M]
3)	why to conduct software fevicus.	[211]
	<u>PART-B</u>	(50 Marks)
2.	Illustrate CMMI in detail with a neat sketch.	[10M]
2	OR	5103 F
3.	Explain evolutionary process models with a neat sketch.	[10M]
4.	Write Software Requirements Specification for Library Automation.	[10M]
	OR	
5.	Describe Requirements validation and management in detail.	[10M]
6.	Draw Class Diagram and Sequence diagram for ATM.	[10M]
	OR	
7.	Brief Design Engineering in detail.	[10M]
8.	What are the various types of errors detected in black-box testing and white	box [10M]
	testing?	
0	OR	[10] (1
9.	Explain metrics for analysis and design model.	[10M]
10.	Differentiate proactive and reactive risk strategies.	[10M]
	OR	
11.	Describe metrics for Software Quality.	[10M]
