Code No.: AI502PC	R20	H.T.No.			8	R					

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - June- 2025
SOFTWARE ENGINEERING
(Common for CSC, CSD, CSM)

[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.

PART-A **(20 Marks)**

1. a)	Write about the nature of Software.	[2M]
b)	Define process patterns.	[2M]
c)	What is meant by context model?	[2M]
d)	Who should be involved in requirements review?	[2M]
e)	How to translate the requirements model into design model?	[2M]
f)	Define component diagram.	[2M]
g)	Differentiate between the white box testing and black box testing.	[2M]
h)	What is meant by software quality?	[2M]
i)	What is meant by reactive Vs proactive risk strategies?	[2M]
j)	Give a note on RMMM plan.	[2M]

PART-B **(50 Marks)**

2.	Discuss the capability maturity model integration.	[10M]
	OR	
3.	Explain the incremental process models.	[10M]
4.	List and explain various categories of non-functional requirements and their importance in SRS.	[10M]
	OR	
5.	Describe software requirement elicitation and analysis process	[10M]
6.	Explain the design process and design quality.	[10M]
	OR	
7.	Briefly describe each of the four elements of the design model.	[10M]
8.	Discuss the test strategies for conventional software.	[10M]
	OR	
9.	Describe how you would assess the quality of a university before applying to it. What factors would be important? Which would be critical?	[10M]
10.	Why is there often tension between a software engineering group and an independent software quality assurance group? Explain.	[10M]
	OR	
11.	With examples, illustrate the problems associated with a reactive risk strategy.	[10M]

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