Code No.: R22CS405PC	R22	H.T.No.			8	R						

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–II–Semester End Examinations (Regular) -June- 2025
SOFTWARE ENGINEERING
(Common for IT, CSM, CSE, CSD, CSC)

[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)	List out different types of software process models.	[1M]
	b)	Write briefly about CMMI.	[1M]
	c)	What are the differences between functional requirements and non-functional requirements?	[1M]
	d)	What is an object model?	[1M]
	e)	Write the importance of Structured design and analysis.	[1M]
	f)	What is collaboration diagram?	[1M]
	g)	What is system testing?	[1M]
	h)	Define software quality.	[1M]
	i)	How to measure software? Explain.	[1M]
	j)	What are different software risks?	[1M]

PART-B **(50 Marks)**

2.	Write about different software Myths.	[10M]
	OR	
3.	Explain the prototyping model with the help of a neat diagram.	[10M]
4.	Describe about Software Requirement Specification (SRS) and the characteristics needed for good SRS.	[10M]
	OR	
5.	Explain about data model with example.	[10M]
6.	Why is it important to achieve high cohesion and low coupling in software modules? Explain with examples.	[10M]
	OR	
7.	What is a class diagram? Explain how it helps to design the structural modeling of software with example.	[10M]
8.	Describe the concept of black-box testing and provide examples of situations where it is particularly useful.	[10M]
	OR	
9.	What are the metrics used for software maintenance? Explain.	[10M]
10.	Discuss the software metrics that can be applied to the qualitative assessment of software quality.	[10M]
	OR	
11.	Explain about RMMM.	[10M]

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