Code No.: CS405PC

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-B.TECH-II-Semester End Examinations (Supply) - June- 2025 SOFTWARE ENGINEERING

(Common to CSE, IT)

[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)	Define Software Engineering?	[2M]
b)	List out the differences between Agile Model and Waterfall Model.	[2M]
c)	What are user requirements and system requirements?	[2M]
d)	Define data models.	[2M]
e)	What is the usage of component diagrams?	[2M]
f)	What is software design process?	[2M]
g)	Write the metrics for the design model.	[2M]
h)	Define black box testing.	[2M]
i)	What is meant by software quality assurance?	[2M]
j)	Define software reliability.	[2M]
	PART-B (5	50 Marks)
2.	Discuss the evolutionary process models.	[10M]
	OR	
3.	With the help of neat diagram, explain the waterfall model.	[10M]
4.	Explain various categories of non-functional requirements and their importance SRS.	in [10M]
	OR	
5.	Develop SRS with standard template for University Result Maintenance System.	[10M]
6.	Briefly describe each of the four elements of the design model.	[10M]
	OR	
7.	What is meant by software architecture? Explain the taxonomy of architectural styles	. [10M]
8.	Explain the validation testing and system testing.	[10M]
	OR	F4.03. F3
9.	Define software quality. Explain the software quality parameters.	[10M]
10.	Explain the reactive vs. proactive risk strategies.	[10M]
	OR	F4 03
11.	Elaborate the statistical software quality assurance. ***********************************	[10M]