Code No.: AI502PC

**R20** 

H.T.No.

8 R

[Max. Marks: 70]

## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

## III-B.TECH-I-Semester End Examinations (Supply) - May- 2023 SOFTWARE ENGINEERING (Common for CSC, CSD, CSM)

[Time: 3 Hours]
Note: This question paper contains two parts A and B.

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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.

	$\underline{PART-A} \tag{20}$	Marks)
1. a) b) c) d) e) f) g) h) i)	Define software? Write the evolving role of software. What is meant by data model? What is the significance of feasibility studies in requirement engineering? Define use case diagrams. Write the user interface design process. What is meant by testing? Write the testing process. Differentiate between testing and debugging. Write the ISO 9000 quality standards. Define software reliability?	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
	I ANI-D	(50 Marks)
2.	List and explain the nature of software and software characteristics.	[10M]
2	OR With the help of neat diagram, explain the waterfall model.	[10M]
3.		[10M]
4.	Make a comparisons between the Functional and non-functional software	,
5.	requirements.  OR  Identify and explain four types of requirements that may be defined for computer based system.	[10M]
6.	Discuss about design patterns and their role in software design.  OR	[10M]
7.	Evaluate why it may be necessary to design the system	[10M]
8.	Discuss the Metrics for Analysis Model and Metrics for Design Model.	[10M]
9.	specifying rules and its usage with the help of an example.	
10.	factors would be important? Which would be critical?	nat [10M]
11	OR  Write a short note on the following i. The RMMM Plan. ii. Risk projection.	[10M]