Code No.: CS405PC   R20   H.T.No. [ ][8][R][ ][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–II–Semester End Examinations (Supply) - February- 2023
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.

PART-A   (20 Marks)

1. a)	List the importance of software and software characteristics.	[2M]
b)	Write the evolving role of software.	[2M]
c)	What are the functional and non-functional requirements?	[2M]
d)	How do we assess the quality of a software design?	[2M]
e)	Define class diagram.	[2M]
f)	How do you draw a component diagram?	[2M]
g)	Define software quality.	[2M]
h)	What is meant by system testing?	[2M]
i)	What are the uses for process metrics?	[2M]
j)	Give a note on software review.	[2M]

PART-B   (50 Marks)

2.a)	Define software engineering. Explain the nature of software.	[5M]
b)	What are the myths and realities of management and Explain?	[5M]
	OR	
3.	Explain the Capability Maturity Model Integration.	[10M]
4.	Illustrate the requirements elicitation and analysis process.	[10M]
	OR	
5.	Explain the representation and the software requirements specifications	[10M]
6.	Discuss the mapping data flow into software architecture.	[10M]
	OR	
7.	Describe the architecture styles and patterns.	[10M]
8.	What is black box testing? What is boundary value Analysis? Explain the technique specifying rules and its usage with the help of an example.	[10M]
	OR	
9.	Discuss the Metrics for Analysis Model and Metrics for Design Model.	[10M]
10.	Write a short notes on the following: i. The RMMM Plan. ii. Risk projection.	[10M]
	OR	
11.	Discuss the ISO 9000 quality standards.	[10M]

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