SET-I

Subject Code: 22AM302PC

HT NO: | 7 R | |

## CMR TECHNICAL CAMPUS

## **UGC AUTONOMOUS**

B. Tech. III Sem Regular End Examinations, February-2024 Software Engineering Common to CSM, AIML

Time: 3 Hours

Note

Max. Marks: 60

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

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## PART-A

 $10 \times 01 = 10 \text{ Marks}$ 

			Marks	СО	BL	
1.	a	Define software Engineering	1	CO1	L2	
	b	List the five levels of CMMI	1	CO1	L1	
	С	List any two types of requirements in Software development	1	CO2	L1	
	d	Define Feasibility Study	1	CO2	L2	
	е	What is data design?	1	CO3	L2	
	f	What is the use of Use-Case diagrams	1	CO3	L2	
	g	What is the formula for calculating Cyclomatic complexity	1	CO4	L2	
	h	List any two factors for Software Quality	1	CO4	L1	
	i	What are the two types of strategies for Risk management?	1	CO5	L2	
	j	What do you mean by Code walkthroughs?	1	CO5	L2	

## PART- B

 $5 \times 10 = 50 \text{ Marks}$ 

		Marks	CO	BL
2.	Explain software myths with examples OR	10	CO1	L2
3	Explain Agile developmental model with a suitable scenario	o 10	CO1	L2
4	Differentiate functional and non-functional requirements are explain	nd 10	CO2	L2
	OR			
	a Explain requirements validation process.	5	CO2	L2
5	b State the structure of software requirements document detail.	t in 5	CO2	L2

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	6	a	High cohesion and low coupling are preferable. Justify your answer	5	CO3	1/20
		b	Explain any two Architectural patterns OR	5	CO3	rf W
	7		Explain the conceptual model of UML with example.	10	CO3	L2
	8	a	What is the necessity of unit testing? list all unit testing considerations.	5	CO4	L1
		b	Explain system testing with a suitable scenario.  OR	5	CO4	L2
	9	a	Explain in detail about system testing?	5	CO4	L2
		b	Differentiate between testing and debugging	5 5	CO4	L2
	10	a	List and explain any four types of risks, which can affect software project	5	CO5	L2
		b	Interpret software reviews and inspections required for quality assurance.	5	CO5	L2
			OR			
	11		Define software reliability. List the three categories of McCall quality factors	10	CO5	L2

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