Code:20CS603PC | SET-I | HT NO: | | | 7 | R | | | | | |

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech.VI Semester Regular End Examinations, May-2023

Software Engineering

Common to CSM&CSD

Time: 3 Hours **Max. Marks: 70**

Note

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 X 02 = 20 Marks

			Marks	CO	BL
1.	a	Define Software Engineering?	2M	CO1	L1
	b	List the set of Umbrella activities?	2M	CO1	L1
	c	Define System Requirement specification?	2M	CO2	L1
	d	Write the distinct steps in requirements engineering process?	2M	CO2	L1
	e	List the five stages of object oriented design process	2M	CO3	L1
	f	Show the importance of software design?	2M	CO3	L1
	g	Define Integration testing.	2M	CO4	L1
	h	What is acceptance testing?	2M	CO4	L1
	i	Write about Quality control	2M	CO5	L1
	j	What is software reliability	2M	CO5	L1

PART- B

5 X 10 = 50 Marks

			Marks	CO	BL
2.	a	Understand the process frame work with neat diagram	5M	CO1	L2
	b	Classify the phases of Unified process model with neat diagram	5M	CO1	L4
		OR			
3	a	Explain software engineering as a layered technology	5M	CO1	L2
	b	Explain Spiral model with neat diagram	5M	CO1	L2
4	a	Distinguish Functional and Non-Functional requirements	5M	CO2	L4
	b	Understand Requirements engineering processes with neat diagram		CO2	L2
		OR			
5	a	What is Behavioural model? Design and explain the Data-processing model for an example of Order processing	5M	CO2	L1

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	b	Apply the sequence diagram of ATM withdrawal	5M	CO2	
6	a	Explain the Golden rules for user interface design	5M	CO3	L2
	b	Make use the Taxonomy of Styles and Patterns using Data-centered architectures	5M	CO3	L3
		OR			
7	a	Explain the User Interface Design Process steps?	5M	CO3	L1
	b	Understand the Object Oriented Design Process	5M	CO3	L2
8	a	Analyze the different types of testing Strategies for Conventional Software	5M	CO4	L4
	b	List the metrics for design model	5M	CO4	L1
		OR			
9	a	Distinguish white box and black box testing	5M	CO4	L4
	b	List the metrics for Testing	5M	CO4	L1
10	a	Understand about Reactive Vs proactive risk strategies	5M	CO5	L2
	b	Analyze Six Sigma for software Engineering:	5M	CO5	L4
		OR			
11	a	Write about RMMM PLAN	5M	CO5	L1
	b	Explain about Formal Technical Review	5M	CO5	L1

CO : Course Outcomes

BL : Bloom's Taxonomy Levels

L 1: Remembering **L 2: Understanding**

L 3: Applying **L 4: Analysing**

L 5: Evaluating **L 6: Creating**

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CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech. VI Semester Supply End Examinations, January-2024

Software Engineering

Common to CSM&CSD

Time: 3 Hours **Max. Marks: 70**

Note

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 X 02 = 20 Marks

			Marks	CO	BL
1.	a	Define software engineering	2	CO1	L1
	b	What are the merits of incremental model	2	CO1	L1
	c	What is feasibility study	2	CO2	L1
	d	Differentiate between user requirement and system requirement	2	CO2	L4
	e	List the guidelines for data design.	2	CO3	L1
	f	Define software architecture	2	CO3	L1
	g	What is testing	2	CO4	L1
	h	Write a short note on black box testing.	2	CO4	L1
	i	What is software reliability and how this parameter helps in managing software quality	2	CO5	L1
	j	Give the different categories of risks.	2	CO5	L1

PART- B

5 X 10 = 50 Marks

			Marks	CO	BL
2.	a	Write detailed notes on CMMI.	5	CO1	L1
	b	Describe the various software myths.	5	CO1	L6
		OR			
3	a	Explain the following: i) Water fall model ii) Spiral Model.	5	CO1	L2
	b	What are the challenges of software engineering	5	CO1	L1
4	a	Explain the importance of software specification of requirements.	5	CO2	L2
	b	Describe five desirable characteristics of a good software requirement specification document.	5	CO2	L2
		OR			
5	a	Draw a context level model for a web-based food- ordering system	5	CO2	L3

		such as "Swiggy".			
	b	Give an overview of behavioral system models	5	CO2	L1
6	a	What is Software architecture? Analyse various architectural styles and patterns	5	CO3	L4
	b	Briefly explain Use case diagram	5	CO3	L2
		OR			
7	a	Write a short note on class diagrams.	5	CO3	L1
	b	How system modeling is achieved using UML? Explain with a suitable example	5	CO3	L2
8	a	Write a short note on system testing.	5	CO4	L1
	b	Explain about the art of Debugging	5	CO4	L2
		OR			
9	a	Explain about the metrics for software quality.	5	CO4	L2
	b	What is software maintenance? How to control maintenance cost.	5	CO4	L1
10	a	Distinguish between Reactive Vs Proactive risk strategies.	5	CO5	L4
	b	Explain the methods for Risk Identification.	5	CO5	L2
		OR			
11	a	Explain about the software quality assurance and reliability	5	CO5	L2
	b	Describe the role of software reviews in achieving good quality software	5	CO5	L2

CO : Course Outcomes

BL : Bloom's Taxonomy Levels **L 1 : Remembering** **L 2 : Understanding** **L 3 : Applying** **L 4 : Analysing** **L 5 : Evaluating** **L 6 : Creating**

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