

т.	(Computer Science & Engineering)						
111	Answer any FIVE Questions assh Question from each unit						
		Answer any FIVE Questions, each Question from each unit All Questions carry Equal Marks					
		UNIT-I					
1		Explain the incremental process model along with its advantages and disadvantage.	[14M				
		OR					
2	a)	What do you mean by team process model and personal process model? Differentiate them.	[7M				
	b)	Explain the help of a neat diagram, the prototyping model for software development.	[7M				
		UNIT-II					
3		What is Agility? Compare and contrast various Agile process models.	[14M				
		OR					
4		Explain the ways and means for collecting the software requirements and how are they organized and represented?	[14M				
~	`						
3	a)	What is the use of code verification? How code verification is carried out?	[/M				
	b)	Example.	[/M				
-		OR					
6	a)	What is system modeling? Explain the process of creating models and the factors that should be considered when building models.	[7M				
	b)	Give an overview of various steps in requirements engineering process.	[7M				
		UNIT-IV					
7	a)	How a component is designed based on function? Explain.	[7M				
	b)	Describe the steps in indentifying a good design.	[7M				
		OR					
8	a)	Discuss about Component- Based Development. In detail.	[7M				
	b)	Write the steps in the component level design for WebApps.	[7M				
		UNIT-V					
9	a)	What is meant by SQA? Discuss in detail SQA activities.	[7M				
	b)	Discuss about software reviews. Elaborate on its categories.	[7M				
		OR					
10	a)	Explain the activities of software quality assurance group to assist the software team in achieving high quality.	[7M				
	b)	What are the types of software risks? How they affect software quality?	[7M				



II B. Tech I Semester Regular/Supplementary Examinations, January - 2023 SOFTWARE ENGINEERING (Computer Science & Engineering) Time: 3 hours Max. Marks: 70 Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks UNIT-I a) Define software engineering and present a generic view of Software 1 [7M] Engineering. b) Lucidly present the core principles of software engineering [7M] OR 2 a) What is a myth? Give a focus on various software myths regarding Management [7M] and Practitioner What are the advantages of iterative development? Compare iterative [7M] b) development with Incremental delivery approach UNIT-II a) Discuss about Extreme Programming (XP) in detail. 3 [7M] b) Describe the steps to be followed in developing use cases. [7M] OR a) Give the features of the toolset used in Agile process. 4 [7M] b) Explain about Eliciting Requirements. Why is it mandatory? [7M] UNIT-III a) Discuss about Requirements Modeling for WebApps. 5 [7M] b) Explain about Scenario-Based Modeling. Give its role in requirements analysis. [7M] OR 6 a) Explain the basic elements of a class-based model with suitable diagram. [7M] b) Give the measures to validate the requirements of software system. [7M] **UNIT-IV** 7 a) How to translate the analysis model into the design model? Explain with an [7M] example scenario. b) Explain how to map data flow into a software architecture [7M] OR 8 a) Write about architectural styles and patterns [7M] b) Describe the steps in the design of class- based components. [7M] UNIT-V 9 a) Discuss about White box Testing in detail. [7M] b) What strategies need to be followed for testing object oriented software? Explain [7M] them. OR 10 a) Briefly describe the three main types of software maintenance. Why is it [7M] sometimes difficult to distinguish between them? b) Elaborate the golden rules for user interface design [7M]

1...1.1.1.1.1.1.1.1

1 of 1



— .		(Computer Science & Engineering)	70
T1r	ne: 3	b hours Max. Mark	ks: 70
		Answer any FIVE Questions, each Question from each unit All Questions carry Equal Marks	
		UNIT-I	
1	a)	"Software engineering is a layered technology". Justify	[7M]
	b)	Explain Challenges faced in Software engineering.	[7M]
		OR	
2	a)	What are WebApps? Give their features.	[7M]
	b)	Give an overview of unified process model.	[7M]
		UNIT-II	
3	a)	Describe different checks to be carried out during requirements validation process.	[7M]
	b)	Explain briefly about Requirements management.	[7M]
		OR	
4	a)	What are the three key elements of Agile methodology? Explain them.	[7M]
	b)	How does agility changes the Cost of development? Describe. UNIT-III	[7M]
5	a)	Discuss about Requirements Modeling Strategies in detail.	[7M]
	b)	Explain the design of class-based components.	[7M]
		OR	
6	a)	What is scenario based modeling? Explain the process of creating models and the factors that should be considered when building models.	[7M]
	b)	Give an overview of various steps in creating a behavioral model.	[7M]
		UNIT-IV	
7		What are the outcomes of design process in software engineering? Give their formats.	[14M]
0		OR	F1 43 6
8		How can we design data at component level? Focus on cohesion and coupling metrics.	[14M]
0		UNIT-V	
9	a)	Explain the metrics for Analysis Model.	[/M]
	b)	Describe test strategies for Conventional Software.	[/M]
		OR	
10	a)	Discuss about Black box Testing in detail.	[7M]
	b)	Describe the strategies to be followed in testing WebApps.	[7M]
		1 of 1	

II B. Tech I Semester Regular/Supplementary Examinations, January - 2023

|""|"|"|"||



		II B. Tech I Semester Regular/Supplementary Examinations, January - 2023 SOFTWARE ENGINEERING			
— .		(Computer Science & Engineering)	-		
Time: 3 hours Max. Marks: 70					
		Answer any FIVE Questions, each Question from each unit All Questions carry Equal Marks			
		UNIT-I			
1	a)	Explain about the evolution of software engineering methodology.	[7M]		
	b)	Give the key features of software process models with examples.	[7M]		
		OR			
2	a)	Define the terms: software, software engineering. Focus on the challenges faced in software engineering.	[7M]		
	b)	Explain with neat diagram the prototyping model for software development.	[7M]		
		UNIT-II			
3	a)	What are the goals of Requirement Engineering? What are the tasks performed in requirement engineering? Explain.	[7M]		
	b)	Discuss the components of a Software Requirement Specification document.	[7M]		
		OR			
4	a)	Discuss about Extreme Programming (XP) in detail.	[7M]		
	b)	Explain about Agile Process in detail. Give its advantages.	[7M]		
		UNIT-III			
5		What is behavioral modeling? What are the basic components of behavioral modeling? How does DFDs assist in requirements engineering process? OR	[14 M]		
6	a)	Discuss about Requirements Modeling Strategies in detail.	[7M]		
	b)	Explain the design of class based components.	[7M]		
		UNIT-IV			
7		What are the three types of software architecture patterns? Illustrate each with suitable example.	[14M]		
		OR			
8	a)	Explain about Designing Traditional Components in detail.	[7M]		
	b)	Compare traditional development with component based development.	[7M]		
		UNIT-V			
9		What are the reasons behind performing white box testing? What types of errors it can identify? Explain.	[14M]		
		OR			
10	a)	What is meant by SQA? Discuss in detail SQA activities.	[7M]		
	b)	How does quality assurance differ from software testing? Explain with a suitable example.	[7M]		

|""|"|"|"||