

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks		
Section I						
1	Short Answer type questions.					
a	Describe the primary purpose of the waterfall model in software development.	CO1	Remember	4 x 5 = 20		
	or					
b	How does the role of software evolve in modern enterprises?	CO1	Analyze			
	or					
c	What are the main activities involved in the requirements elicitation and analysis process?	CO2	Remember			
	or					
d	Describe the key components of a Software Requirements Specification (SRS) document according to the IEEE standard.	CO2	Understand			
	or					
e	Explain the importance of design quality in software engineering.	CO3	Remember			
	or					
f	Write the sequence diagram for restaurant system.	CO3	Remember			
	or					
g	Define Black Box Testing. What are its primary advantages and limitations?	CO4	Remember			
	or					
h	Explain the significance of Integration Testing in the software development process.	CO4	Remember			
	or					
Section II						
Long Answer type questions.						
2	Explain the difference between user requirements and system requirements with examples.	CO2	Remember	3 x 10 = 30		
	or					
3	Describe the purpose and content of a use case in the context of requirements engineering.	CO2	Understand			
	or					
4	Illustrate the various stages of the software design process. How do you ensure design quality throughout these stages?	CO3	Analyze			
	or					
5	Describe the differences between a sequence diagram and a collaboration diagram in UML.	CO3	Remember			
	or					
6	What are the main objectives of conducting White Box Testing? Describe at least two techniques used in White Box Testing.	CO4	Remember			
	or					
7	Explain the difference between functional decomposition and object-oriented decomposition.	CO4	Understand			
	or					
Section III						
Application based questions						
5	Explain the COCOMO model and its project categories. If a project is estimated at 500 KLOC, calculate the effort and development time for each of the three modes of software development.	CO4	Analyze	1 x 20 = 20		
	or					
	a. Analyze the connection between quality planning and quality control, explaining how these processes enhance the overall quality of a software product.				CO4	Analyze
	b. Describe the steps involved in the software project estimation process and explain the significance of each step.					

COURSE OUTCOME

CO1 Explain the software engineering principles and techniques.

CO2 Apply Software Project Management Practices.

CO3 Apply the knowledge gained for their project work as well as to develop software following software engineering standards.

CO4 Develop self-reliance, technical expertise, and leadership.