

Code: 20CS5502

**III B.Tech - I Semester – Regular Examinations - DECEMBER 2022**

**SOFTWARE ENGINEERING  
(MINORS in COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
<b>UNIT-I</b>					
1	a)	Explain incremental development process model in detail.	L2	CO2	7 M
	b)	Explain different types of myths about software development and analyze their effect on overall outcome of the software.	L2	CO1	7 M
<b>OR</b>					
2	a)	Define software process and analyze the need of software process frame work.	L2	CO1	7 M
	b)	Illustrate the Evolutionary process model in detail.	L3	CO2	7 M
<b>UNIT-II</b>					
3	a)	Discuss about various steps in requirements engineering process.	L2	CO4	7 M
	b)	Illustrate the steps in scenario-based requirements modeling with appropriate example.	L3	CO4	7 M
<b>OR</b>					

4	a)	Illustrate the process of analyzing functional and nonfunctional requirements of a software with examples.	L3	CO2	7 M
	b)	Describe how to build a requirement analysis model in detail.	L2	CO4	7 M
<b>UNIT-III</b>					
5	a)	Describe about the information flow in translating the requirements model to the design model with neat sketch.	L2	CO2	7 M
	b)	Illustrate how architecture styles are used at architecture design level.	L3	CO4	7 M
<b>OR</b>					
6	a)	Discuss about various fundamental software design concepts in brief.	L2	CO1	7 M
	b)	What is Software architecture? Analyze why it is necessary to design the system architecture before the specifications.	L3	CO4	7 M
<b>UNIT-IV</b>					
7	a)	Explain about the strategic approaches to software testing.	L2	CO1	7 M
	b)	Write about debugging process and strategies in detail with neat sketch.	L2	CO2	7 M
<b>OR</b>					
8	a)	Discuss about the test strategies for object-oriented software.	L2	CO2	7 M
	b)	Define black box testing. Write about various methods in black box testing.	L2	CO1	7 M

**UNIT-V**

9	a)	Discuss about the methods for Risk Identification in detail	L2	CO3	7 M
	b)	What do you mean by RMMM? Illustrate RMMM plan with example.	L3	CO3	7 M

**OR**

10	a)	Define Risk Exposure. Demonstrate how to assess risk impact with an example.	L3	CO3	7 M
	b)	Describe the methods for Risk Projection.	L2	CO3	7 M