SHRI RAMSWARDOD MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

M.Tech(CSE) – I Year (I Sem)														
Course Name: Advance	ed So	ftwar	e Enç	gine	ering	 J					Cod	e: M	CS1	002
Time: 02 Hours											Мах	Ма	rks:	60
University Roll No.														
	'		'		_	'		(To	be f	fille	d by	the	Stud	lent)

Note: Please read instructions carefully:

- a) The question paper has 03 sections and it is compulsory to attempt all sections.
- b) All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Very Short Answer type Questions				Marks	
Atte	empt all the questions.	BL	CLO	(10)	
1.	Compare and contrast between software engineering and web	BL2	CLO1	02	
	engineering processes.				
2.	Explain the role of a web publisher in web engineering. What	BL2	CLO2	02	
	precautions should be taken by a web publisher?				
3.	What is the difference between waterfall model and the component	BL1	CLO1	02	
	based software engineering?				
4.	Explain the clean room software engineering. Identify two functional	BL3	CLO2	02	
	specifications of clean room software engineering approach.				
5.	Classify four important reasons of software crisis. What can be	BL4	CLO1	02	
	done to mitigate such situations.				
Sec	tion B: Short Answer Type Questions	Dī	CIO	Marks	
	empt any 03 out of 06 questions.	BL	CLO	Marks (30)	
	• •	BL3	CLO2		
Atte	empt any 03 out of 06 questions.			(30)	
Atte	empt any 03 out of 06 questions. Show how do we transform an informal design to a detailed design?			(30)	
Atte	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable			(30)	
1.	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable to the waterfall model.	BL3	CLO2	(30)	
Atte	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable to the waterfall model. What is reverse engineering? Analyze the impact of reverse	BL3	CLO2	(30)	
1. 2.	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable to the waterfall model. What is reverse engineering? Analyze the impact of reverse engineering on reliability of the software product.	BL3	CLO2	10	
1. 2.	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable to the waterfall model. What is reverse engineering? Analyze the impact of reverse engineering on reliability of the software product. Identify the significance and use of requirement engineering and	BL3	CLO2	10	
1. 2. 3.	Show how do we transform an informal design to a detailed design? Provide three examples of software projects that would be amenable to the waterfall model. What is reverse engineering? Analyze the impact of reverse engineering on reliability of the software product. Identify the significance and use of requirement engineering and the various steps of requirement engineering.	BL3 BL4	CLO3	(30) 10 10	

5.	A software has 5000 Lines of Code(LOC) with an average complexity	BL3	CLO4	10
	level. Discuss the types of testing strategies that will be most			
	appropriate to test the software.			
6.	Determine four simple ways by which quality of software may be	BL5	CLO2	10
	enhanced.			
Sect	tion C: Long Answer Type Questions/Case Study	BL	CLO	Marks
Atte	empt any 01 out of 04 questions.	ВL	CLO	(20)
1.	Summarize the differences between Black Box and Glass Box	BL5	CLO1	20
	Testing. Do you agree that Glass Box Testing requires higher level of			
	programming expertise? Support your answer with real life			
	examples.			
2.	Discuss the significance of Formal Technical Review(FTR) in software	BL6	CLO1	20
	engineering process. Give a sample report of Formal Technical			
	Review describing all the objectives in detail.			
3.	Illustrate the main components of requirement specification	BL4	CLO4	20
	document. What formal approach will you follow, if any change is to			
	be done in the requirement specification document?			
4.	Explain the 'Agility Principle'. Why do modern organizations prefer	BL5	CLO4	20
	agile design practices to build their software applications? Evaluate			
	the pros and cons of extreme programming approach used in agile			
	development model.			
