(10 Marks)

## Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Software Engineering

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

		PART – A	
1	a.		(06 Marks)
j.	b.		(04 Marks)
V.		Explain the system engineering process activities, with a neat block diagram.	(10 Marks)
	C.	Explain the system engineering process activities, with a near block diagram.	(10 Marks)
2	VIEW	Will the state of	nlain
2	a.	What are the types of critical systems? Draw a simple safety critical system and ex	(10 Marks)
	h	Explain the process iteration with diagrams.	(10 Marks)
	b.	Explain the process iteration with diagrams.	(10 Marks)
2		To 1 is the section of the section o	(06 Maulta)
3	a.	Explain the metrics for specifying non-functional requirements.	(06 Marks)
ź.	b.	Write the IEEE format of writing Software Requirement Specification (SRS).	(04 Marks)
. P	C.	What is Ethnography? How ethnography is effective in discovering the	
		requirements? Explain.	(10 Marks)
4	a.	Draw the state machine model of a microwave oven.	(05 Marks)
	b.	Explain structured methods.	(05 Marks)
	c.	What are the project management activities? Explain.	(10 Marks)
		$\underline{PART} - \underline{B}^{\circ}$	
5	a.	With an example describe the repository model and give its advantages and disa	dvantages.
· · ·			(10 Marks)
	b.	What is a sequence model? Draw the sequence model of operations in collecting	
		from a weather station and explain.	(10 Marks)
6	a.	Explain extreme programming.	(10 Marks)
	b.	With a block diagram, explain the system evolution process.	(10 Marks)
7	a.	Explain clean-room software development.	(08 Marks)
		Briefly explain the roles in inspection process.	(04 Marks)
4		Explain any one of the approaches to test case design.	(08 Marks)
	٠.		
8	a.	Why People Capability Maturity Model is used? Explain.	(10 Marks)
U	u.	This is copie capacities interest to do the interest in the in	(40 34 1 )

\* \* \* \*

List and explain cost estimation techniques. \*