2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

USN

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019

Software Engineering

Time: 3 hrs.

Max. Marks:100

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

at teast 117 5 questions from each part.				
PART - A				
1	a.	What is software? Explain the essential attributes of a good software.	(05 Marks)	
	b.	List and explain the key challenges facing software engineering.	(05 Marks)	
	c.	Explain the different phases of the system engineering process with a neat diagram	1.	
			(10 Marks)	
2	a.	Explain the four principle dimensions of dependability.	(04 Marks)	
	b.	Illustrate with a figure, the mapping of a software system from input to output.	(04 Marks)	
	C.	Explain with a figure, the following process models:		
		i) Water fall model		
		ii) Evolutionary development	(12 Marks)	
3	a.			
		two of them.	(06 Marks)	
	b.	Explain with a figure, the requirement elicitation and analysis process.	(08 Marks)	
	C.	List and explain the different types of checks that should be carried out on require	ements in a	
		requirement document.	(06 Marks)	
4	a.	n. Draw the data flow diagram for order processing and explain the different process activities		
		involved in it.	(10 Marks)	
	b.	List and explain the different activities involved in software project management.	(10 Marks)	
		PART – B		
5	a.	Explain with a figure, the shared repository model and give its advar	itages and	
		disadvantages.	(10 Marks)	
	b.	Explain the different stages involved in object oriented design process.	(05 Marks)	
	c.	With a neat figure, explain the different layers in the weather station software.	(05 Marks)	
6		What is a pair programming? List its advantages.	(05 Marks)	
		Explain with a diagram, the process of prototype development.	(08 Marks)	
	c.	Explain the different factors used in application assessment.	(07 Marks)	
7	a.	What are advantages of inspection over testing?	(04 Marks)	
	b.	Explain with a figure, the clean room software development process.	(08 Marks)	

Explain with example: i) Block-Box testing

ii) Path testing (08 Marks)

List and explain the factors governing staff selection. 8 (10 Marks) Explain in detail algorithmic cost models in project planning. (10 Marks)