Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 **Software Engineering**

Time: 3 hrs.

Max. Marks: 100

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

		PART – A	
1	a.	What is software engineering? What are the key challenges facing software engine	eering? (05 Marks)
	b.	What is software process? What are the activities of software processes? Explain.	(05 Marks)
	c.	Define system engineering. Mention the stages system development. Explain any	four.
	С.	Define system on smooth grant and a second s	(10 Marks)
2	a.	Define system dependability. What are dimensions of dependability? Explain.	(10 Marks)
_	b.	What is process iteration? Explain Boehm's spiral model with figure.	(10 Marks)
	0.	What is process and a second s	
3	a.	Explain (i) User requirements and (ii) System requirements.	(08 Marks)
5	b.	Describe the requirements elicitation and analysis with example of bank ATM.	(07 Marks)
	c.	Explain the structure of Software Requirements Documents.	(05 Marks)
	Ο,		
4	a.	What is data flow model? Write data flow diagram of insulin pump and explain	n notations
_	u.	used in data flow model.	(08 Marks)
	b.	Explain state machine model for a simple microwave oven.	(05 Marks)
	c.	What a project management activities? Explain.	(07 Marks)
	٥.	What a project	
		PART – B	
		Define system organization. Explain shared repository system. Mention merits an	d demerits.
5	a.	Define system organization. Explain shared repository system. Wention merks and	(08 Marks)
	1.	Explain with figures (i) Central control system and (ii) Event-based control.	(05 Marks)
	b.	Briefly explain Object-Oriented Design process.	(07 Marks)
	C.	Biletry explain Object-Oriented Design process.	
-	•	Explain rapid software development with figures.	(08 Marks)
6	a. b.	What are agile methods? Explain extreme programming practices.	(05 Marks)
	c.	Explain software maintenance in detail.	(07 Marks)
	U.	Explain software manifestation in accura-	
7	•	Explain software inspection process in detail.	(08 Marks)
, '	a. b.	Explain clean-room software development with diagrams.	(05 Marks)
		Explain system testing and phases of system testing.	(07 Marks)
	C.	Explain by scott cooling and property	
8	a.	Explain People Capability Maturity Model with figures.	(10 Marks)
O	a. b.	Explain algorithmatic cost modeling, the COCOMO model.	(10 Marks)
	υ.	DAPIGHT GIGOTALITICATION OF THE WAY TH	

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.