(06 Marks)

6

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## Fifth Semester B.E. Degree Examination, June/July 2018

## **Software Engineering**

Time: 3 hrs. Max. Marks:100

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

		at least TWO questions from each part.	
		PART – A	
1	a.	Explain the different attributes of a good software.	(06 Marks)
	b.	Mention the different stages involved in system engineering process. Explain	n any four
		phases.	(10 Marks)
	c.	Explain any four emergent system properties.	(04 Marks)
2	a.	Explain with a neat figure, a simple safety critical system.	(06 Marks)
	b.	Explain with a figure, the waterfall model of software development process.	(10 Marks)
	c.	Explain the four principle dimensions of dependability.	(04 Marks)
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3	a.	Explain the terms:	
		Functional requirements	(03 Marks)
Á.		ii) Non-functional requirements	(04 Marks)
		iii) User requirements	(03 Marks)
	b.	Explain the requirement elicitation and analysis process.	(05 Marks)
	c.	Explain the structure of a IEEE software requirement document.	(05 Marks)
4	a.	What is a data flow model? Explain with a figure, the data flow model of an ins	sulin pump. (10 Marks)
	b.	Explain with a figure, the risk management process.	(10 Marks)
		PART – B	
5	a.	Explain with a figure:	(0#3# 1)

a.	Explain with a figure:		
	i) The repository model	(05 Marks)	
	ii) The client-server model	(05 Marks)	
b.	What are the stages involved in the object-oriented design process?	(04 Marks)	
c.	Explain with a figure, the state diagram for weather station.	(06 Marks)	
a.	Explain the different principles of agile methods.	(05 Marks)	
b.	List and explain the various tools included in rapid application development.	(05 Marks)	
c.	Explain with a figure, the different stages involved in system evolution process.	(10 Marks)	
a.	What are the advantages of inspection over testing?	(04 Marks)	
b.	the state of the s		
υ.	Explain with a figure, the different stages involved in clean teem accompany	(10 Marks)	

8 Write short notes on the following:

c. Explain with a figure, the incremental integration testing.

a.	Critical factors in people management	(05 Marks)
	The people capability maturity model	(05 Marks)
	Cocomo model	(05 Marks)
	Factors affecting software pricing	(05 Marks)

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