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USN			

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 **Software Engineering**

Tin	ne: 3	hrs. Max. M	Aarks:100
No	ote:	Answer any FIVE full questions, selecting atleast TWO questions from	each part.
		PART - A	
1	a.	Define Software Engineering. Distinguish between Generic product and product.	Customised (06 Marks)
	b. c.	What are the key challenges facing software engineering? Define Legacy systems. Explain Legacy system components, with a neat sketch.	(06 Marks) (08 Marks)
2	a.	Explain different types of Critical systems. Illustrate a simple safety critical	system with
		insulin pump structure.	(10 Marks)
	b.	1: 5 - 6: 13(1) 6 6	(10 Marks)
3	a.	Explain Rational Unified Process.	(06 Marks)
	b.	Illustrate with a sequence diagram, cash withdraw process from an ATM.	(08 Marks)
	c.	Give the structure of software requirements document in IEEE format.	(06 Marks)
4	a.	Describe Ethnography and Prototyping for requirement analysis.	(06 Marks)
	b.	With a neat sketch, explain State Machine model of a Microwave oven.	(08 Marks)
	c.	Explain with suitable example Risk Identification Process.	(06 Marks)
		PART - B	
-		What are the advantages of Repository Model? Explain Client – Server model w	ith diagram
5	a.	what are the advantages of Repository Model! Explaint them - server model w	(10 Marks)
	h	Define Object and Class with example. Explain the object oriented design proce	
	0.		(10 Marks)
6	a.	Describe the basic principles of Agile development methods.	(10 Marks)
	b.		stem growth
		and evolution.	(10 Marks)
7	a.		case design. (10 Marks)
	b.	What are Formal methods? Explain their significance in software developing	ent process. (10 Marks)
			/0
8		rite short notes on the following:	25)
		People Capability Maturity Model.	1500
	b.	Waterfall Model.	(0)

- b. Waterfall Model.
- c. Performance testing.
- d. Functional and Non functional requirements.

(20 Marks)

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