

10IS51

Fifth Semester B.E. Degree Examination, June/July 2016 **Software Engineering**

Time: 3 hrs.

Max. Marks: 100

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

		PART - A	
1	a.	What are the attributes of good software? Explain the key challenges facing	in software
		engineering.	(08 Marks)
	b.	What are emergent system properties? Give the example for each.	(06 Marks)
	c.	Describe the general model of design process.	(06 Marks)

2	b.	What are critical systems, with its types? Explain. With the neat diagram, explain water fall model. Explain the requirement engineering process with its four phases.	(08 Marks) (06 Marks) (06 Marks)
3	a. b.	Define and differentiate functional and non functional requirements. Write IEEE standard format for requirement documentation.	(06 Marks) (06 Marks)

		while IEEE standard format for requirement documentation.	(06 Marks)
(c.	What is requirement Elicitation and analysis?	(04 Marks)
(d.	Write short note on Ethnography.	(04 Marks)

4	a.	Explain data flow model with an example of insulin pump.	(08 Marks)
		Define object model and explain object aggregation.	(04 Marks)
		Explain different section of project plan and dofine milestones and deliverable	

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5	a.	Explain the architectural design decision.	(06 Marks)
	b.	Explain: i) Repository model ii) Layered model	(06 Marks)
	c.	Explain object oriented design process with example of weather mappin	g system of the
		layered architecture.	(08 Marks)

PART - B

0	a.	What are agile methods? Discuss the principles of agile method.	(06 Marks)
	b.	Explain the Lehman's laws.	(04 Marks)
	C	Explain the steps involved in reengineering process with a neat diagram.	(10 Marks)

a	١.	Define validation and verification and explain two complementary approaches	to	system
		checking and analysis.	(04	Marks)
b).	Explain clean room software development process with neat diagram.	•	8 Marks)
C		Explain interface testing with neat diagram.		8 Marks)

8	a.	Explain the factors governing staff selection.	(10 Marks)

b.	Write short notes on group communication.	(04 Marks)
c.	Explain briefly the algorithmic cost modeling and write the difficulties.	(06 Marks)

Important Note: 1. On completing your answers, consistently draw diagonal cross lines on the remaining blar ages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, collaborated as malpractice.