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

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.b.c.	What are the attributes of good software? Explain the key challenges facing in engineering. What are emergent system properties? Give the example for each. Describe the general model of design process.	n software (08 Marks) (06 Marks) (06 Marks)
2	a. b. c.	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. c. d.	Define and differentiate functional and non functional requirements. Write IEEE standard format for requirement documentation. What is requirement Elicitation and analysis? Write short note on Ethnography.	(06 Marks) (06 Marks) (04 Marks) (04 Marks)
4	a. b. c.	Explain data flow model with an example of insulin pump. Define object model and explain object aggregation. Explain different section of project plan and define milestones and deliverables.	(08 Marks) (04 Marks) (08 Marks)
PART – B			
5	a. b. c.	Explain the architectural design decision. Explain: i) Repository model Explain object oriented design process with example of weather mapping syst layered architecture.	(06 Marks) (06 Marks) tem of the (08 Marks)
6	a. b. c.	What are agile methods? Discuss the principles of agile method. Explain the Lehman's laws. Explain the steps involved in reengineering process with a neat diagram.	(06 Marks) (04 Marks) (10 Marks)
7	a. b. c.	Define validation and verification and explain two complementary approaches checking and analysis. Explain clean room software development process with neat diagram. Explain interface testing with neat diagram.	to system (04 Marks) (08 Marks) (08 Marks)
8	a. b. c.	Explain the factors governing staff selection. Write short notes on group communication. Explain briefly the algorithmic cost modeling and write the difficulties.	(10 Marks) (04 Marks) (06 Marks)

* * * * *