(10 Marks)

USN

Fifth Semester B.E. Degree Examination, June/July 2013 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 a good software?	(04 Marks)
	b.	Define software engineering. Explain the different types of software products.	(06 Marks)
	c.	Explain emergent system properties with examples.	(10 Marks)
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2	a.	Explain the different types of critical systems.	(06 Marks)
	b.	Explain security terminologies.	(05 Marks)
	c.	Describe rational unified process with block diagram	(09 Marks)
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3	a.	Explain the metrics for specifying non-functional requirements.	(06 Marks)
	b.	Explain requirement engineering process.	(06 Marks)
	c.	Explain the structure of the requirements document.	(08 Marks)
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4	a.	List and explain different types of system models.	(10 Marks)
•	b.	What are project management activities? Explain.	(10 Marks)
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		<u>PART – B</u>	
5	a.	With an example describe the repository model and give its advantages and disact	
	_		(10 Marks)
	b.	Draw and explain state diagram for a typical weather station.	(10 Marks)
6	a.	Explain the principles of agile methods.	(06 Marks)
	b.	What is pair programming? Explain its advantages.	(06 Marks)
	c.	Explain Lehman's laws of program evolution dynamics.	(08 Marks)
7	a.	Briefly explain the roles in inspection process.	(06 Marks)
	b.	Explain clean-room software development.	(06 Marks)
14.	c.	Explain general model of testing with the help of block diagram.	(08 Marks)
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8	a.	Explain any five factors governing staff selection.	(05 Marks)
	b.	What are the factors that influence group working?	(05 Marks)

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Explain cost estimation techniques.