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Third Semester MCA Degree Examination, June/July 2017 Software Engineering

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

			Note. Answer any 1112 jun questions.							
	1	a.	What is software engineering? What are the fundamental software engineering act							
dimin on a		b. c.	What are the professional and ethical responsibilities of a software engineer? What are the general issues that affect many different types of software?	(07 Marks) (07 Marks) (06 Marks)						
	2	a. b.	Define software process model. Explain waterfall model. With the relevant diagram, explain the four basic process activities.	(10 Marks) (10 Marks)						
Ô	3	a. b. c.	What are functional and non – functional requirements? Explain the ways of writing system requirements specification. Explain the process of requirement and elicitation and analyses process, with diagram.	(06 Marks) (06 Marks) a suitable (08 Marks)						
	4	a. b.	What is system modelling? Explain each UML diagram, with a diagram used t the essentials of a system. Draw and explain sequence diagram for a typical weather station.	o represent (12 Marks) (08 Marks)						
-	5	a. b. c.	What are the essentials of component based software engineering? Define component model. With a diagram, explain the basic elements of a model. Mention the categories of component model implementation services.	(06 Marks) component (10 Marks) (04 Marks)						
	6	a. b.	Explain the advantages of using distributed approach to system development. Write short note on: i) Middle ware ii) Client server computing.	(10 Marks) (10 Marks)						
	7	a. b.	Explain the major issues of project planning. What is risk management? Explain the risk management process with a diagram.	(10 Marks) (10 Marks)						
	8	a. b.	What is software testing? Explain the fundamental of testing. Write short notes on:	(10 Marks)						
			i) Levels of testingii) Black – box testing	(10 Marks)						

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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.