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

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions.			
1	a.	What is software engineering? What are the fundamental software engineering acti	vities? (07 Marks)
	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) (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)
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 to the essentials of a system.  Draw and explain sequence diagram for a typical weather station.	represent (12 Marks) (08 Marks)
5	a. b.	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	c. 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)
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:  i) Levels of testing	(10 Marks)
		ii) Black – box testing	(10 Marks)

Terrordent Note 1. On completing vour growers, compulsority draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluated and evaluation