Third Semester MCA Degree Examination, Dec.2014/Jan.2015

Software Engineering

time: 3 hrs.

Max. Mark

Note: Answer any FIVE full questions.

1	a. Defin	e software.	Explain	the	categories	of	software.	Explain	the	qualities	of a	good
	softw	ire.								, X	(08 N	Marks)

Explain the challenges faced by software engineering.

(06 Marks)

Explain the professional responsibilities of a software engineer.

(06 Marks)

2	a. b.	Explain reuse oriented software engineering with a neat diagram. Explain requirement engineering process with a neat diagram.	(08 Marks) (12 Marks)
	٠.	Explain requirement dignicering process with a near triagrant.	(12 MIXIKS)

Differentiate between waterfall model and spiral model. (04 Marks) (10 Marks)

Explain Boehm's spiral model with a neat diagra

Explain rational unified process with a neat diagram. (06 Marks)

(Q)

Explain the principles of agile meth (06 Marks)

Explain extreme programming with a neat diagram. (08 Marks)

Explain the scrum approach I rigile methodology with a neat diagram. (06 Marks)

Differentiate between functional and non functional requirements. (04 Marks)

Explain IEEE state of SRS document. (08 Marks)

Explain the ways of writing a system requirement specification (08 Marks)

Explain the principal stages of requirement management with a neat dieg (08 Marks) (12 Marks)

Main the different perspectives of the system modeling with examples

Explain the basic elements of a component model with a neat diagram.

Explain the architectural pattern for distributed systems with a neat diagram.

(12 Marks)

Briefly explain the following:

- Types of effort estimation approaches
- Risk management planning approach
- Types of cohesion techniques

Data flow diagram of an ATM

(20 Marks)

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.