

Fourth Semester MCA Degree Examination, Dec. 2016/Jan. 2017 Software Engineering

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a. b. c.	Define the term software. Specify and explain the attributes of good software. List the fundamental activities, which are common to all software process. With a block diagram, explain the incremental development process.	(06 Marks) (04 Marks) (10 Marks)
2	a. b. c.	What is system procurement? Explain the system procurement process. Write a short note on system decommissioning. Explain rational unified process (RUP) in detail.	(06 Marks) (04 Marks) (10 Marks)
3	a.b.c.d.	What do you mean by requirement engineering process? Explain the pha requirement engineering process. List the types of non-functional requirements. Explain briefly. What is the general structure of a requirements document suggested by IEEE? What do you understand by ethnography?	ses in the (06 Marks) (06 Marks) (05 Marks) (03 Marks)
4	a.b.c.	Describe the process of risk management in software project management vidiagram. What is state machine model? Explain with example. Write short notes on milestones and deliverables.	vith a neat (10 Marks) (06 Marks) (04 Marks)
5	a. b.	Explain repository model. Discuss the advantages and disadvantages of a shared List the stages of object – oriented design. Explain any three of these.	repository. (10 Marks) (10 Marks)
6	a. b. c.	What are agile methods? Discuss the principles of agile methods. What are the practices followed in extreme programming. Explain the activities in the re-engineering process with a neat diagram.	(07 Marks) (07 Marks) (06 Marks)
7	a. b. c.	Describe the characteristics of clean room software development. Explain the various stages involved in automated static analysis. What is the difference between white box and block box testing?	(08 Marks) (08 Marks) (04 Marks)
8	a. b.	Write short notes on: i) COCOMO model ii) CMM model. List and explain the factors that influence group working.	(10 Marks) (10 Marks)