(05 Marks)

(05 Marks)

b.

USN

Third Semester MCA Degree Examination, Dec.2015/Jan.2016 **Software Engineering**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions.			
1		Why software engineering is important? State any two reasons. Brief the essent of a good software. Brief about the general issues that affect different types of softwares. Describe software engineering code of ethics and professional practices as IEEE/ACM.	(05 Marks) (05 Marks)
2	a. b. c.	Discuss the principles of agile methods. In brief explain the extreme programming release cycle. With neat diagram, explain different types of non – functional requirements.	(05 Marks) (05 Marks) (10 Marks)
3	a.b.c.	Why requirement validation process is required? Explain different types of should be carried out in this cycle of requirement validation. Mention the various difficulties that a software engineer faces during enderstanding requirements. Explain in detail the structural models of software system.	(07 Marks)
4	a. b.	Explain reuse oriented software engineering. Describe in detail the software process activities.	(05 Marks) (15 Marks)
5	a. b. c.	Briefly explain component and connect view. Discuss on client – server system with respect to C and C. Write a short note on project schedule and staffing. Explain the concept of risk assessment and mention the techniques for managing	(10 Marks) (05 Marks)
6	a. b.	Describe the elements of a component model with a neat diagram. What are CBSE processes? Explain basic process of CBSE model.	(10 Marks) (10 Marks)
7	a. b.	Explain some important design issues that need to be considered in distributed engineering. Explain master – slave architecture for distributed systems with a suitable example.	(10 Marks)
8	a.	Describe in detail the process of testing.	(10 Marks)

Mention the differences between white-box testing and black-box testing.

Explain state based testing with an example.