1					
U.S.N.					

BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)
May 2016 Semester End Main Examinations

Course: SOFTWARE ENGINEERING

Course Code: 10CI6GCSWE

Max Marks: 100

Date: 05.05.2016

Instructions: Answer FIVE FULL questions, choosing one from each unit.

		UNIT-1	
1.	a)	Explain the attributes of good software? What are the key challenges facing in software engineering?	08
	b)	With a neat block diagram explain system engineering process activities.	06
	c)	Define legacy systems. Explain components of legacy system.	06
		OR	
2.	a)	Distinguish between functional and nonfunctional requirement with example.	04
	b)	Explain the terms	06
		i) Domain requirements	
		ii) User Requirements	
	2)	iii) System Requirements	10
	c)	Explain in detail requirement validation.	10
		UNIT-2	
3.	a)	Explain the process of Risk Management in detail with help of a neat diagram.	08
	b)	Explain the general structure of a Project Plan.	07
	c)	Draw and explain the Context Model of a Library system.	05
		UNIT-3	
4.	a)	Define object and object class. Explain the various proposal made to identify object class.	08
	b)	Describe the two event driven control models.	06
	c)	Design the architecture of a film and picture library system using client-server model.	06

UNIT-4

5.	a)	a) With a neat diagram explain clean room software development?	
	b) Analyze the factors that lead to higher maintenance costs.		06
	c)	Devise guidelines for interface testing?	06
		OR	
6.	a)	Explain the principles of agile methods?	06
	b)	Explain rapid application development with a neat diagram.	06
	c)	Assess the rationale underlying Lehman's law.	08
		UNIT-5	
7.	a)	Using your knowledge of how an ATM is used, Identify the actors, Develop a set of use cases that could serve as a basis for understanding the requirement of ATM System and design the sequence diagram for cash withdrawal.	08
	b)	Discuss the control styles.	05
	c)	Define State machine model and design the state model for Microwave Oven with explanation.	07
