U.S.N.					

BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum) **July 2015 Supplementary Examinations**

Course: Software Engineering Duration: 3 Hours Course Code: 10CI6GCSWE Max Marks:100 Date: 29.07.2015

Instructions: Answer any five full questions choosing one from each unit.

		UNIT-I	
1.	a)	Define software engineering. How is it different from computer science?	06
	b)	Explain the emergent properties of a system with example.	06
	c)	With a neat diagram illustrate the system design process.	08
		OR	
2.	a)	List and explain the types of non-functional requirement with the help of a diagram.	06
	b)	Compare and contrast user requirement with system requirement. Design a form based system requirement specification for online movie ticket booking.	08
	c)	Justify why viewpoints are important in requirement engineering process.	06
		UNIT-II	
3.	a)	Explain the structured method and with the help of neat diagram explain the components of CASE tools for structured method support.	07
	b)	Explain the process of project scheduling.	06
	c)	Explain the risk management process with neat diagram.	07
		UNIT-III	
4.	a)	With a neat diagram explain client server model?	06
	b)	Explain with neat diagram centralized control style?	06
	c)	Develop an object model, including a class hierarchy diagram and an aggregation diagram showing the principal components of a personal computer system and its system software?	08
		UNIT-IV	
5.	a)	Explain with the help of a neat diagram Extreme Programming release cycle.	08
	b)	Explain the four strategic options for Legacy system Evolution.	06
	c)	What are the principles of Agile methods. Explain.	06

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6.	a)	Explain in detail the program Inspection process with a neat diagram	06
	b)	Explain the Clean Room Software development in detail.	08
	c)	Explain Black-Box Testing in detail	06
		UNIT - V	
7.	a)	For an android based game, distinguish the milestones and deliverables	06
	b)	Explain nonfunctional requirements for simulating a text editor with features of write, update, cut, copy and paste	04
	c)	Write, update, cut, copy and paste Write a Control Flow Graph (CFG) for the following pseudo code. Estimate the Cyclomatic Complexity for the CFG	10
		Begin Cooking Control Function 1. initialize time and power values 2. while time is not equal to 00:00 3. if Stop/Clear button is pressed call Oven Control Function 4. while Start button is not pressed 5. if Stop/Clear is pressed again end cooking endif endwhile 6. elseif microwave door is opened call Oven Control Function to shut off oven 7. while door is open wait endwhile 8. while Start button is not pressed if Stop/Clear is pressed end cooking endif endwhile endif 10. call Display Time Function to output current time value call Display Power Func tion to display current power level call Oven Control Function to turn on oven at the proper power level decrement current time value endwhile endwhile 11. call Oven Control Function to shut off oven set time to 00:00 call Display Time Function call Beeper Function to sound beeper End Cooking Control Function	
