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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

June / July 2014 Semester End Make Up Examinations

Course: Software Engineering
Course Code: 10CI6GCSWE

Duration: 3 hours Max Marks: 100 Date: 04.07.2014

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

UNIT 1

1	a.	What is Software? What are the attributes of good software?	05
	b.	What are the key challenges facing software engineering? Explain	05
	C.	Explain system components of legacy systems with a neat diagram.	10

OR

2	a.	Explain the various types of non-functional requirements in detail.										10		
	b.	With	the	help	of	a	diagram,	explain	the	spiral	model	of	requirements	10
engineering process.														

UNIT 2

- 3 a. Draw a state machine model of control software for an iron box which has 04 various programs for different types of clothes to be pressed
 - b. Develop an object model, including a class hierarchy diagram and an 08 aggregation diagram showing principal components of PC system and its system software
 - c. Develop a bar chart and an activity network for the following tasks listed.

Tasks	Days	Dependency
T1	10	-
T2	25	T1
T3	8	
T4	15	T3,T2
T5	8	T4

80

UNIT:

4	а.	Explain how system architecture affects the non-functional requirements of the system.	05						
	b.	Discuss the advantages and disadvantages of repository model.	05						
	c.	List the guide lines for identifying the object classes.	05						
	d.	Explain concurrent objects.	05						
		UNIT 4							
5	a.	List and explain the principles of agile methods.	05						
	b.	List and explain different types of interface testing and Interface errors	05						
	c.	Explain inspection process with a diagram. List and explain the roles in	10						
		inspection process							
		OR							
6	a.	Describe five key strategies of clean room software development							
	b.	Identify various approaches that are available for test case design							
	c.	With the help of a diagram explain the extreme programming release cycle	10						
		along with its practices							
		UNIT 5							
7	a.	Write Short notes on:	20						
,	a.	(i) Automated Static Analysis							
		(ii)Rapid Application development							
		(iii) Control Styles							
		(iv) Socio-Technical Systems							
