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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

June 2016 Semester End Make Up Examinations

Course: SOFTWARE ENGINEERING Duration: 3 Hours Course Code: 10CI6GCSWE Max Marks: 100 Date: 04.06.2016 Instructions: Answer FIVE FULL questions, choosing one from each unit. UNIT-1 1. a) List the four important attributes which all software products should have? Suggest 06 four other attributes that may sometimes be significant. b) Explain a spiral model of requirement and design with neat diagram. 06 c) Explain the structure of a software requirement document. 08 OR 2. a) Discuss the key challenges faced by software engineering. 06 b) Explain the different types of Non-functional requirements. 08 c) Elicitating and understanding stake holder requirements is difficult for several 06 reasons? Justify? **UNIT-2** a) Explain the components of CASE TOOLS for structured support with a neat diagram. 3. 07 Explain the following with suitable example: 06 (i) Object behavior modeling (ii) Data flow models (iii) Context models c) Explain risk management process with a neat diagram **07 UNIT-3** a) Explain with neat diagram the two main strategies used to decompose a subsystem 08 4. Into modules. b) Explain the Object Oriented strategies used throughout the development process. 06

Explain in detail repository model of system organization with a neat diagram.

UNIT-4

5.	a)	List and explain the roles in the inspection process.			
	b)	Discuss the Principles of agile methods.	05		
	c)	Explain the activities of re-engineering process in detail.	1(
		OR			
6.	a)	Discuss the difficulties with iterative development and incremental delivery.	06		
	b)	Illustrate the flow graph for a binary search routine.	06		
	c)	Explain any two system testing approaches.	08		
		UNIT-5			
7.	a)	Explain system engineering process with a neat diagram.	08		
	b)	Design state machine model of a washing machine equipped with buttons to set the power, timer and to start the system.	06		
	c)	Suggest a suitable control model for real time system. Justify your suggestion.	00		
