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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)
MAY/JUNE 2014 Semester End Main Examinations

Course: Software Engineering

Code: 10CI6GCSWE

Duration: 3 hours Course

Max Marks: 100

Date: 03.06.2014

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

UNIT 1

1	a. b. c.	What are the key challenges faced by software engineering Differentiate between user requirements and system requirements With the help of a diagram explain the spiral model of requirements engineering process	05
		OR	
2	a. b. c.	Differentiate between milestones & deliverables Explain the general structure of a project plan With the help of a neat diagram explain the components of a CASE tool for structured method support	05 05 10
		UNIT 2	
3	a. b.	Draw and explain the context model of an ATM system. Explain the risk management process with a neat diagram.	10
		UNIT 3	
4	a. b.	Explain with neat diagram the two main strategies used to decompose a subsystem Into modules. Which is the Object Oriented strategies used throughout the development	08
	c.	process. Explain. Explain in detail repository model of system organization with a neat diagram	06
		UNIT 4	
5	a. b.	Explain rapid application diagram with a neat diagram. What are the benefits of prototyping? Explain the process of prototype development with a neat diagram.	08
	C.	Explain the roles in the inspection team.	04

		OR					
6	a.	Explain the stages involved in automated static analysis of program.	05				
	b.	Explain the model of software testing process.	07				
	c.	Explain clean room software development with a neat diagram.	08				
		UNIT 5					
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					
	c.	Write a Control Flow Graph (CFG) for the following pseudo code. Estimate the					
	Cyclomatic Complexity for the CFG						
		-,					
		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					
		to shut off oven 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 9. if Stop/Clear is pressed					
		end cooking					
		endif					
		endwhile endif					
		10. call Display Time Function					
		to output current time value					
		call Display Power Function to					
		display current power level call Oven Control Function to turn					
		on oven at the proper power level					
		decrement current time value					
		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					
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