M.E. Second Semester (Computer Science & Information Technology) (New - CGS) 13189: Real Time Embedded Systems: 2 RNME 1

P. Pages: 2 Time: Three Hours		LADRA CANA MARIA RATA AND MARI	AU - 3437 Max. Marks : 80	
	Note	es: 1. All question carry equal marks. 2. Due credit will be given to neatness and adequate dimensions. 3. Assume suitable data wherever necessary. 4. Use of pen Blue/Black ink/refill only for writing book.		
1.	a)	Explain in detail the process of creating an executable image, using a block	diagram.	
	b)	Discuss the recent trends in Embedded systems.	6	
		OR		
2.	a)	List the various services provided by an operating system and Explain the sprequirements of an Embedded system.	pecial 7	
	b)	Draw and explain the Layered architecture of an Embedded system.	6	
3.	a)	Explain the waterfall model alongwith its building blocks.	7	
	b)	List and explain the important issues in managing embedded system projects	s development.	
		OR		
4.	a)	Describe a various productivity tools to develop a software.	7	
	b)	Explain the process of requirements Engineering in detail.	7	
5.	a)	Explain different types of hardware platforms for embedded systems.	6	
	b)	Explain the architecture of 8051 family micro-controller.	7	
		OR		
6,	a)	Explain ethernet LAN protocol architecture.	6	
	b)	Explain broad specifications of Bluetooth standards.	7	
7.	a)	List the various objects of an operating system Kernel. Explain it.	7	
	b)	Explain the following algorithms:-	7	
		i) Preemptive multitasking.		
		ii) Non-preemptive multitasking.		

OR

P.T.O

http://www.sgbauonline.com

http://www.sgbauonline.com

8.	a)	What is task scheduling? Explain the states of a task in an Embedded system.	7		
	b)	What are handheld operating systems? Explain any four popular handheld operating systems.	7		
9.	a)	Explain the software defined Radio transmitter architecture.	6		
	b)	What is RF-tags? Explain the mechanism of contactless smart card using RF tag.	7		
OR					
10.	a)	Draw and explain the data packet and file name packet for ethernet and serial communication in project overview of protocol convertor.	7		
	b)	Enlist and explain the features of linux.	6		
11.	a)	What is the use of filtering in DSP? List and explain its various types.	7		
	b)	Draw and explain RFID system in detail.	6		
OR					
12.	a)	List the various phrases in the process of development of DSP. Explain it.	7		
	b)	Explain the following. i) Time domain analysis of digital signals. ii) Frequency domain analysis of signals.	6		

http://www.sgbauonline.com

AU - 3437 2