## B.E. Computer Technology Seven Semester CT7041 / CT704 - Elective-I : Embedded System

	Pages : ne : Th	2 ree Hours * 1 4 4 9 *	GUG/W/18/1860 Max. Marks : 80
	Not	es: 1. All questions carry equal marks. 2. Assume suitable data wherever necessary.	
1.	a)	Define embedded system. Draw and explain the architecture of Embedder	system. 8
	b)	Compare RISC and CISC processer.	8
		OR	
2.	a)	Discuss the hardware design issues of Embedded system.	8
	b)	Explain the process of embedded system Design & Development.	8
3.	a)	What are the functions of operating system.	8
	b)	What are the task and task schedules.	8
		OR	
4.	a)	What is shared data problems? Explain with example.	8
	b)	Write notes on	8
		i) Mailboxes	
		ii) Mutex	
		iii) Timers.	
5.	a)	Draw and discuss the block diagram for the system using Assembly languranger programming.	age 8
	b)	What are the benefits and drawbacks of assembly language programming system.	for embedded 8
		OR	
6.	a)	Explain ICE with the help of neat sketch.	8
	b)	Briefly explain Host and Target machines.	8
7.	a)	Discuss the issues related to the design using RTOS.	8
	b)	Discuss the design principle used to memory space in an embedded system	m. <b>8</b>

8.	a)	Discuss any one example of system using RTOS.	8
	b)	Compare Hard and soft Real time systems.	8
9.	a)	Briefly explain interrupts of 8051.	8
	b)	Discuss memory architecture of 8051.	8
		OR	
10.		Write short note on:-	16
		1) UARY.	
		2) RS-232	
		3) Watch Dog Timer in embedded system.	
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