B.E. (Information Technology) Eighth Semester (C.B.S.)

Elective - III : Embedded Systems

P. Pages: 2 Time: Three Hours			rs		TKN/KS/16/7705 Max. Marks: 80	
	Notes: 1.		All questions carry marks as indicated.			
		2.	Solve Question 1 OR Qu			
		3.	Solve Question 3 OR Qu			
		4.	Solve Question 5 OR Qu			
		5.	Solve Question 7 OR Qu			
		6. 7.	Solve Question 9 OR Qu Solve Question 11 OR Q			
		8.	Assume suitable data wh			
		9.			essary with the help of neat sketches.	
1.	a)	What is embedded system? Explain components of embedded system hardware.				
	b)	Write	examples and application of	f embedded	system.	6
				0	R	
2.	a)	Explain how to get processor embedded into a system.				
	b)	Expla	in hardware units and device	es in a syste	m.	6
3.	a)	i) (e the following terms. Cross compiler. Host Machine.	ii) iv)	Cross Assemblers. Target Machine.	10
	b)	Write	in brief about in – circuit fo	rmulator.		3
				0	R	
4.	a)		ting program components palded Environment? Explain.	- •	w does locator resolute this issue in the	10
	b)	Expla	in PROM programmer.			3
5.	a)	What	What are the three states of an RTOS task? Explain.			
	b)	Explain Message Queue, Mailboxes, and pipes.				
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6.	a)	Write	short note on any four.			13
		iii) (Semaphore. OS Security issue. SR.	ii) iv)	Deadly Embrace (Deadlock). Task Schedular.	

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7.		Explain UART, USART Bus in detail and differentiate between them.	
		OR	
8.		Explain different wireless Devices.	14
9.	a)	Explain Assembly language programming with advantages.	6
	b)	Explain High level Language programming with advantages.	7
		OR	
10.	a)	Write advantages and disadvantages of Java in embedded programming.	6
	b)	Write advantages and disadvantages of C++ in embedded programming.	7
11.	a)	Explain Architecture of 8051 with diagram.	7
	b)	Explain Addressing modes with example.	7
		OR	
12.	a)	Explain I/O ports of 8051.	7
	b)	Explain in brief the 8051 TMOD and TCON register.	7
