Total No. of Questions	: 12]	SE SE	AT No. :
P3437	[5670]-7	13	[Total No. of Pages : 2
	B.E. (Computer E		
EMREDD	ED & REALTIME		
	Semester II) (410252		
(20131 attern) (c) (17) (410232	(Elective	- III) (END Semi.)
Time: 2½ Hours]	29		[Max. Marks:70
Instructions to the can	70.		
1) Attempt Q.No. or Q.10, Q.11,	ī or Q.No. 2; Q.No.3 or Q. or Q.12.	.No.4; Q.No.5, or	r Q.No. 6., Q.7,or Q.8, Q.9,
	s must be drawn wherever	•	290
	right indicate full marks.		
4) Assume suita	ble data, if necessary.		
		Č	
01) Explain block of	liagram of Embedded sy	vstems?	[6]
21) Explosit block c	magram or Emocaded sy	, stems.	[v]
×'	OP		
Q2) Explain timing of	diagram of Analog to Di	gital Converter	(ADC)? [6]
		7	
Q3) Explain ZigBee	protocol in detail?		[6]
25) Explain Eighte	protocor in detail.		101
	6.		
	OR		
	%.		6
04) Explain register	architecture of ARM?		[6]
	> '		
05/17 1: 0 : 1	150 000 01 1		(6)
Q3) Explain Serial p	protocol RS-232C in deta	all with neat di	agram? [8]
	OR		
			Y
O() Write about not	as an ICA and DCIO	0	101
yo) write short not	Orotocol RS-232C in deta OR es on ISA and PCI?	70.	[8]
		O XO	

P.T.O.

Q 7)	a)	Explain Hard versus soft real -time systems and their timing constrain	ıts.	
			[8]	
	b)	Explain Latest - Release - Time (ERT)?	[8]	
		OR		
Q8)	a)	Explain Precedence constraints and data dependency among real -time		
		tasks.	[8]	
	b)	Explain Earliest- Deadline - First (EDF)?	[8]	
Q9)	a)	Explain shared data problem in interrupts handling?	[8]	
	b)	Explain semaphores message queues, mailboxes?	[8]	
		OR		
	6			
Q10) a)	Explain priority inversion with neat diagram?	[8]	
	b)	Explain with example Interrupts enabling and disabling in embedd	led	
		system?	[8]	
Q 11,) a)	Explain Architecture and design of an embedded system?	[9]	
~ /	b)	Write short notes on MisselfOC II Windows CE2	[9]	
	0)	white short heres on who co, or in, white we de.	2	
		OR OR		
		OR OR		
Q12) a)		[9]	
	b)	Explain Validation and debugging of embedded systems?	[9]	
		Explain Validation and debugging of embedded systems?		

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