Total	l No	o. of Qu	estions: 6]		(20	SEAT No.:		
P56					V	[Total	No. of Pages : 2		
TE/INSEM/APR-61									
T.E. (E & Tc)									
304191: EMBEDDED PROCESSORS									
(2012 Pattern) (Semester - II)									
Time: 1 Hour] Instructions to the condidates:							[Max. Marks: 30		
110501	wer	1)	Answer Q.I or						
		2) 3)	Neat diagrams Assume suitab				necessary.		
		3)	Assume sumo	ie aaia, ij	necessa	u y.			
Q 1)	a)	Stat	e and Explain d	ifferent o	perating	g modes o	of ARM.	[6]	
	b)	Wh	at is significanc	ce of CPS	SR regi	sters of A	RM? Expla	nin function of	
		each	n bit.		2	1, 50	/	[4]	
					OR	0			
Q 2)	a)	Exp	olain following is	nstruction	is of AF	M7 (any	3)	[6]	
		i)	Mov r1, r3, L3	SL #2	200.				
		ii)	BICS r0, r1, r2	2	30			C C	
		iii)	MLA r0, r1, r2	2, r3					
		iv)	LDR r3, [r1]	18. V.				200	
	b)	Con	npare ARM7,A	RM9, AI	RM11.			[4]	
			*					6.	
Q 3)) a) Draw interfacing diagram and					an embed	lded C progr	am to interface	
~		Eight LEDs connected to P1.16						[5]	
	b)	Wri	te features of Ll	PC2148.		(V)	06	[5]	
					OR				
					011	16	· ·		
						26.			
						3.		<i>P.T.O.</i>	

Q4) a) What is the need of Pin Connect Block in LPC2148? Explain the role of PINSELx registers. [5] Draw and explain memory map of LPC 2148. [5] b) What is the necessity of Vectored Interrupt Controller? Explain the work-**Q5**) a) ing of VIC in LPC [5] Enlist the features of on-chip ADC in LPC2148. Explain the function of b) ADCR.ADDR and ADSTAT register. [5] OR Draw and explain interfacing diagram of 12C EEPROM 24Cxxx with **Q6**) a) [5] Draw interfacing diagram of GPS using UART with LPC 2148. Also write algorithm for the same. [5] Still Book of the State of the