Total No. of Questions	:	6]
P499		

SEAT No.:			
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TE/Insem/APR - 26 T.E. (Electronics Engineering) EMBEDDED PROCESSORS (2012 Pattern) (Semester - II)

Timo	· 1 I	Hour] [Max. Marks : 30			
Time: 1 Hour] [Max. Marks: 30] Instructions to the candidates:					
1113111	1)	Answer Q1 or Q2, Q3 or Q4 and Q5 or Q6.			
	2)	Figures to the right indicate full marks.			
	<i>3</i>)	Assume suitable data, if necessary.			
	- /				
Q1)	a)	Draw & Explain Programming model of ARM7. [6]			
	b)	Compare ARM7, ARM9 and ARM11. [4]			
		OR S			
Q2)	a)	Explain the following instructions of ARM7. [6]			
		i) LDR R0, [R1]			
		ii) MLA R1, R2, R3, R4			
		iii) MVN R0, R1			
	b)	What is function of barrel shifter in ARM dataflow model? [4]			
Q3)	a)	Draw and explain architecture of LPC 2148 ARM. [6]			
~	b)	Interface LED's to port P1 of LPC 2148. Write embedded C program to			
	,	blink LED's. [4]			
		OR			
Q4)	a)	Explain GPIO register of LPC 2148. [6]			
	b)	Write short note on VPB of LPC 2148. [4]			

Also draw flow chart. b) Draw interfacing of DAC with LPC2148. Write an embedded C program to generate square wave. OR Draw and interfacing of GSM with LPC2148. Explain any four AT *Q6*) [6] commands. b) Compare I2C and SPI Protocol. **[4]** Str. 198. And 199. An AND SOLVE SO

Draw and explain interfacing of EEPROM by using I²C with LPC 2148.

Q5)