Total No. of Questions : 6]	SEAT No. :
•	SEAT NO

P522

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APR-18/TE//Insem. - 123 T.E (E& TC) ADVANCED PROCESSORS (2015 Pattern) (Semester-II)

Time : 1	Hour] [Max. Marks :30
	ions to the candidates:
insirucii 1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6
2)	Figures to the right indicate full marks.
3)	use of scientific calculator is allowed
4)	use suitable data where ever required
	20.
Q1) a)	Draw and explain the data flow model of ARM 7. [5]
b)	What is TDMI, Compare the Thumb and ARM Instruction set features
,	of ARM [5]
	OR
Q2) a)	Draw and explain the CPSR of ARM in detail. [5]
b)	Draw and explain in short block diagram of TIVA TM4C123 processor
	[5]
Q3) a)	State features of LPC2148 [5]
b)	Write an ARM based ALP to find the largest number from series of 8,32
,	bit numbers and store result at location pointed by RESULT. [5]
	OR
<i>Q4</i>) a)	Explain with neat diagram relation between CCLK and PCLK with the
24) (a)	help of VPB/Divider. Find the configuration of VPB divider to achieve
1)	
b)	Draw and explain the memory organization of LPC2148, [5]
Q5) a)	Draw an interfacing diagram for LED connected to port 1 of LPC2148
	and write an embedded C program to alternatively flash the LEDS. [5]
b)	Draw and explain the interrupt structure of LPC2148. [5]
	OR O
Q6) a)	Write an embedded C program to generate the delay of 1 sec using
	Timer of LPC2148 with PR=10, CCLK=20 MHz [5]
b)	Draw an interfacing diagram of 4x4 matrix keypad with LPC2148 and
- /	write an algorithm to detect the key pressed [5]
	[6]