Total No	No. of Questions :6] SEAT No. :				
P28	TE/Insem./APR-32 [Total No	o. of Pages : 2			
T.E. (E & TC)					
306189 : ADVANCED PROCESSORS					
	(2015 Pattern) (Semester-II)				
Time : 1	1 Hour] [Ma	ax. Marks : 30			
	ctions to the candidates:				
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.				
<i>2</i>)	Neat diagrams must be drawn wherever necessary.				
3)) Assume suitable data if necessary.				
01)		[7]			
Q1) a)	a) Draw and explain programmers's model of ARM7.	[6]			
b)	b) Explain briefly any four operating modes of ARM7.	[4]			
,					
	OR				
()2) -)	-) E1-in frateurs of DISC (Described Harman ADM and	-1-:44:-			
Q2) a)	a) Explain features of RISC design philosophy. How ARM are different than pure RISC?	[6]			
	different than pure raise.	[0]			
b)	b) Explain features of TIVA TM4C123 Processor.	[4]			
Q3) a)	a) Explain GPIO ports of LPC2148 and registers to control th	15)			
Q3) a)	a) Explain of to poits of El C2146 and registers to control th	Comme. [5]			
b)	b) Draw and explain memory may of LPC2148.	[5]			
	OR				
Q4) a)	a) Write an ARM based ALP to find count of positive numbers	from sarias			
Q4) a)	of ten 32 bit numbers store count in R1 register.	[6]			
b)	b) Enlist features and applications of timer in LPC2148.	[4]			
	Q.V	<i>P.T.O.</i>			
	V*				

Q 5)	a)	Interface 8 LEDs with port- ϕ of LPC2148. Write an embedded program for flashing alternate LEDs.	l C [6]
	b)	Explain function of any two registers w.r.t. VIC of LPC2148. i) VIC Int Enable ii) VIC Int Cntt iii) VIC Int select OR	[4]
Q6)	a)	Draw interfacing diagram of keypad matrix with LPC2148. Draw flechart to detect a key.	low [6]
	b)	List features of UART0 and compare it with UAR1.	[4]
		m32 Description of the compare it with UARTS A Compare it with UART	60.53
TE/	Insei	$\mathbf{m32} \qquad \qquad 2 \qquad \mathbf{\cancel{>}} \qquad \qquad 2$	