Total No. of Questions: 6]	SEAT No.:
P534	[Total No. of Pages : 1

TE/Insem/APR-125 T.E. (Electronics Engineering) (Semester - II) **EMBEDDED PROCESSORS**

		(2015 Pattern)	
		Tour] [Max. Marks	: 30
Instr	uctio	ons to the candidates:	
	<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.	
	<i>2)</i>	Figures to the right side indicate full marks.	
	3)	Assume suitable data, if necessary.	
<i>Q1)</i>	a)	Explain in brief System clocks of MSP430 Microcontroller.	[6]
	b)	List the features of MSP 430 Microcontroller. OR	[4]
Q2)	a)	List features and applications of variants of the MSP 430 far MSP430x2x, MSP430x4x, MSP430x5x.	nily [6]
	b)	List key features of FRAM. Compare FRAM Vs Flash memory.	[4]
<i>Q3</i>)	a)	Explain Comparator architecture of MSP 430 Microcontroller.	[5]
	b)	With the help of diagram explain process of PWM generation in M 430.	MSP [5]
Q4)	a)	Explain block diagram of Analog to Digital Conversion (ADC 10 MSP 430 Microcontroller.) of [5]
	b)	Explain I ² C Communication protocol in detail.	[5]
Q 5)	a)	Draw & Explain Data flow model of ARM 7.	[6]
	b)	What are the different modes of Operation in ARM 7.	[4]
		OR	
Q6)	a)	Draw & Explain Programming model of ARM 7.	[6]
	b)	What are the Advantages & Suitability of ARM Processor in Ember Application.	lded [4]

