Seat N	lo.: _	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
I	M.E. SEMESTER I (old course)–EXAMINATION (Remedial) – WINTER 2015		
		code: 710302N Date: 09/12/2	
•		Name: Advance Microcontroller	.010
•	Sime: 10:30 AM to 1:00 PM  Total Marks:		0
Instructions:			U
1. Attempt all questions.			
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
		goo	
<b>Q.1</b>	(a)	Draw and Explain architecture of PIC 18 F452 Microcontroller.	<b>07</b>
	<b>(b)</b>	Explain futures of Harvard Architecture with advantages and disadvantages	07
<b>Q.2</b>	(a)	List and explain types of data copy instruction.	07
	<b>(b)</b>	Draw a schematic diagram for PIC18XXX microcontroller interface with	07
		DAC0808. Write an assembly language program to generate ramp signal. <b>OR</b>	
	(b)	~ <del>~~</del>	07
	(0)	Explain any three with example	U1
Q.3	(a)		07
<b>C</b>	()	flag.	
	<b>(b)</b>	Explain Program memory of PCI 18F Family.	<b>07</b>
		OR	
Q.3	(a)	List the addressing mode of PIC 18F452 and explain any two in detail	<b>07</b>
	<b>(b)</b>	Write a program to generate a square wave of 2KHz frequency. clock	<b>07</b>
		frequency is 50 KHz	
<b>Q.4</b>	(a)	<u> •</u>	07
	<b>(b)</b>	Write a program to generate time delay program using nested loop assume	07
		suitable value of time delay.  OR	
Q.4	(a)	What is an interrupt? List different interrupts of PCI 18F explain any two in	07
Ų.i	( <b>u</b> )	details.	07
	<b>(b)</b>	Explain Stack operation in PIC18XXX	07
Q.5	(a)	•	07
	<b>(b)</b>		07
		data stored in file register 041H. Store result in BCD from in memory	
		location 042H and 043H.	
		OR	
Q.5	(a)	Draw and explain function of PORT A	07
	<b>(b)</b>	Explain function of Instruction decoder in microcontroller.	07

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