Total No	[o. of Questions :10]	SEAT No. :		
P360	[5560]-561	[Total No. of Pages :2		
	T. E. (Electrical)			
ADVANCED MICROCONTROLLER AND ITS APPLICATIONS				
	(2015 Course) (Semester - I) (End Sen	n.) (303141)		
T: 2		Mari Marika 70		
	2½ Hours] tions to the candidates:	[Max. Marks ; 70		
1)	Attempt Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 o Q.No.9 or Q.No.10.	r Q.No.6, Q.No.7 or Q.No.8,		
2)	Neat diagram must be drawn wherever necessary.	3		
3)	Figures to the right indicate full marks.			
4)	Assume suitable data, if necessary.			
0.1)	Service and a se			
<b>Q1)</b> a)	) Compare CISC and RISC Architecture.	[6]		
b)	Explain the following instruction with suitable e	example [4]		
	i) BN n			
	ii) BCF f,b,a			
<b>Q2)</b> a)	Write C program to generate delay of 50m se	c using Timer 0. Assume		
	crystal frequency of 10 MHz.	[6]		
b)	) Mention alternate function of Port B.	[6]		
<b>Q3)</b> a)	Explain the following in detail:	[6]		
	i) Immediate addressing mode			
	ii) Direct addressing mode	3		
b)	) Write a assembly language program to blink LI	ED connected to RBI. [4]		

**Q4)** a)

**[6]** 

OR
Explain RAM memory organisation in detail.
Write assemble language program to memory. 1 Write assemble language program to add the contents of five consecutive b) memory location starting from 20H and store result into WREG. [4]

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<b>Q</b> 5)	a)	Explain CCP1CON register in detail and also give its count, if w to toggle CCP1 pin upon match.	
	1 \		[8]
	b)	Mention the steps of programming Capture mode.	[8]
		OR	
06)	6) a) Write a C program to generate 2.5 Khz PWM frequency at 75		75% duty
20)	u)	cycle on CCP1 pin.	[8]
	b)		[8]
	0)		
<i>Q7</i> )	a)	Write programming steps to receive data serially, also find the value SPBRG register to have baud rate to 9600 at Fosc = 10 MHz.	
	b)	) Draw and explain LCD interfacing with pic18f458	
	ŕ		
		OR	
<b>Q8</b> )	a)	Explain the steps of Timer interrupt programming.	[8]
ره و	b)		
	0)	of 9600 and crystal frequency of 10 MHz.	[9]
			r 1
Q9)	a)	Explain ADCON0 and ADCON1 register in details.	[8]
	b) Draw the interfacing diagram of voltage measurement and also expla		
		its interfacing procedure.	[9]
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		OR	
Q10	<b>)</b> a)	Explain interfacing of LM35 for Temperature measurement.	[8]
~ /	b)	Chary interfacing and write Connection to generate Square w	volo liging
	• )	DAC.	[9]
		* * *	
		6.	
[554	( <b>1</b> 1)	DAC.  2	
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