Total	No	. of Quest	ions :10]		26	SEAT No. :		
P3606				[5560]-561		[Total No. of Pages :		es :2
				T. E. (Elec	,			
AD	VA	ANCED	MICROC	ONTROLL	ERAND	ITS APPL	ICATION	1S
		(2013	5 Course) (	Semester - l	I) (End Se	em.) (3031	41)	
<i>a</i>	•	, , , ,	0					<b>-</b> 0
		2 Hours]	and datas			I	Max. Marks	: 70
	icue 1)		candidates:	2, Q.No.3 or Q.1	No 1 O No 5	ar O No 6 O	No 7 or O N	Va Q
1	<i>(</i> )		v.No.10. v.Q.No.10.	2, Q.110.3 01 Q.1	110.4, Q.110.3	01 Q.110.0, Q.	.1 <b>10.</b> 7 01 <b>Q.</b> 11	10.0,
2	2)	Neat diag	gram must be d	rawn wherever	necessary.	30		
ź	3)	Figures 1	to the right ind	icate full marks	S.			
4	<i>1)</i>	Assume	suitable data, if	f necessary.		45. SEAT.		
		26.				5		
<b>Q</b> 1)	a)	Comp	are CISC and	RISC Archit	ecture.	×		[6]
	b)	Explai	n the followin	ng instruction v	with suitable	e example		[4]
		i) B	BN n					
		ii) B	BCF f,b,a	0	20)			
				OR	5			
<i>Q2</i> )	a)	Write	C program to	generate dela	av of 50m s	sec using Tin	mer 0. Assı	ıme
2 )	,		frequency of	/	<i>y</i>	8		[6]
	b)	Mentio	on alternate fi	unction of Por	t B.			[4]
							× S	,
Q3)	a)	Explai	n the followin	g in detail:			No.	[6]
2-)	,	-		ም lressing mode	;		3	[ - ]
		ii) D	irect address	ing mode		00'	\$.	
	b)	,		nguage progra	ım to blink l	LED connect	ed to RBI.	[4]
	,		J <b>144</b>	5 6 F8.		00 00		r - J

**Q4)** a)

**[6]** 

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

<b>Q</b> 5)	a)	Explain CCP1CON register in detail and also give its count, it to toggle CCP1 pin upon match.	f we want [8]			
	b)		[8]			
	0)	, intermed the steps of programming cupture mode.	[0]			
		OR				
Q6)	a)	Write a C program to generate 2.5 Khz PWM frequency at cycle on CCP1 pin.	75% duty <b>[8]</b>			
	b)	Explain speed control of DC motor using Compare mode.	[8]			
Q7)	a)	Write programming steps to receive data serially, also find th SPBRG register to have baud rate to 9600 at Fosc = 10 MHz				
	b)	Draw and explain LCD interfacing with pic18f458.	[9]			
		OR S				
<b>Q8</b> )	a)	Explain the steps of Timer interrupt programming.	[8]			
~ /	b)					
	,	of 9600 and crystal frequency of 10 MHz.	[9]			
Q9)	a)	Explain ADCON0 and ADCON1 register in details.	[8]			
	b)					
	ŕ	its interfacing procedure.	[9]			
		OR OR				
Q10	<b>)</b> a)	Explain interfacing of LM35 for Temperature measurement.	<b>[8]</b>			
	b)	Show interfacing and write C program to generate Square w	ave using			
		DAC.	[9]			
		26.				
		J <sub>X</sub>				
[556	60]-	Explain interfacing of LM35 for Temperature measurement.  Show interfacing and write C program to generate Square w DAC.				