Total No	o. of Questions : 8]	200	SEAT No.:
P658	[5869	]-287	[Total No. of Pages : 3
	S.E. (Informat	-X-Y	logy)
	PROCESSOR		<b>9</b> ,
	(2019 Pattern)		
	2½ Hours]		[Max. Marks: 70
1nstructi 1)	tions to the candidates:  Answer Q.1 or Q.2, Q.3 or Q.4, Q.5	or 0 6. 0 7 or	0.8
2)	Neat diagrams must be drawn where		
3)	Figures to the right indicate full mo		
4)	Assume suitable data, if necessary.		9
	0		<b>?</b> ?
<b>Q1)</b> a)	Discuss the steps in executing	interrunts in	PIC 18 microcontroller [7]
<b>21)</b> (a)	Discuss the steps in executing	merrapis m	The former occurrence. [7]
1 \		. Im	
b)	( )	rupt Reques	
	Interrupt Priority Register).	20, %	[8]
	<u> </u>		
c)	Explain function of following	CD pins:	[3]
	i) RS	06	
	ii) RW	3	
		<b>Y</b>	$\mathcal{C}$
	iii) EN		
	80. O	R	03
<b><i>02</i></b> ) a)	Explain the interrupt structure	of DIC18 alo	ng with IVT. [8]
<b>Q2</b> ) a)	Explain the integrapt structure	0111010 010	ing with tvt.
b)		for 4×4 ma	
	microcontroller and explain it.		[6]
c)	Illustrate the use of following l	oits of INTC	ON2 register: [4]
	i) INTEDG1		
	ii) TMR0IP		<b>.</b>
	ii) TWIKOII	.8.	
		×,	Р.Т.О.
			1.1.0.

Q3)	a)	List the steps involved in programming PIC microcontroller in capt mode.	ure [6]
	b)	Explain RS232 standard with suitable diagram.	[6]
	c)	Write short note on SPI protocol.	[5]
		OR	
Q4)	a)	Write the steps involved in programming compare mode of CCP1 mod in PIC18F458.	ule [6]
	b)	Write short note on 12C bus.	[6]
	c)	Distinguish between synchronous and asynchronous ser communication.	ial [ <b>5</b> ]
05)	ر م	Explain in detail the functions of ADCON0 SFR of PIC18 microcontrol	100
Q5)	a)	CR SOLOW	[7]
	b)	Draw and explain the interfacing diagram of DAC0808 with PIC18FXX	[7]
	c)	Explain the significance of ADC's EOC and SOC signals.	[4]
		OR OR	
Q6)	a)	Draw and explain the interfacing of LM34/LM35 with PIC18FXX temperature measurement using on - chip ADC.	for [ <b>8</b> ]
	b)	A PIC 18 is connected to the 4MHz crystal oscillator. Calculate conversion time if we want to use only ADCS bits of the ADCO register.	N0
		register.	[6]
	c)	List out the steps necessary for reading from EEPROM of PIC18	[4]

Q7)	a)	Draw and explain ARM core dataflow model.	[6]		
	b)	What are the main features of RM7 architecture? How it is differ from pure RISC processor?	rent [6]		
	c)	Describe the major Design Rules of RISC philosophy? List the featur of RISC processor accepted by ARM processor.			
<b>(20)</b>	\	OR OR	161		
Q8)	a)	Draw and explain the ARM family core architecture.	[6]		
	b)	Why does ARM use CPSR? Explain the program status register?	[7]		
	c)	Draw and explain programmers model of ARM processor.	[4]		
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[586	59]-2	3			