Total No. of Printed Pages: 02

SUBJECT CODE NO: - Y-2172 FACULTY OF SCIENCE AND TECHNOLOGY

				B.Sc. T.Y			9,			
				nation Mai			N. E.			
		Ele	ectronics Pa	per- XX (6	02) Micro	o Controlle	r-II			
[Tim	e: 1:30)Hours]					[Max. Mar	ks: 50		
		Please	check whetl	her you have	e got the i	right questi	on paper.			
N. B		1) Att	empt all que	stions.						
Q.1	Give the format of TCON register and explain its each bit in detail. Explain the correct 2 eristic and operation of timer in mode 1. Explain with diagram the clock generation for timer register in mode 1 from crystal oscillator. Write an ALP to generate square waves of 50% duty cycle on port p1.5 using timer 1 in mode 1. OR									
	Explain the concept of serial and parallel data transfer. Give details of half, half duplex									
							chronous serial			
	comm	unication. Enli	st the signals	s on DB-9 c	onnector.	ON.				
			9E.			\$ '				
0.2	Explai	in in detail the	special funct	tion register	used for	interrupt in	8051 microcontroller.	20		
A		in six interrupts						_		
	Y F			0						
	Write	short notes. (a	ny four)							
		Interfacing of	•	with 8051 n	nicrocont	roller				
	2.						write subroutine			
	3.	Pin diagram a				\$ 7				
	4.	. \> = _ />				mode 2				
9		SCON registe				97				
		ALP to gener		aves on por	t P1.3 usi	ng timer 2	interrupt.			
			12.4	£9' .						
0.3	Rewri	te the followin	o hy selectin	g correct an	swer fron	n giver onti	ons	10		
Q.5	1.					n grver opn	OH5.	10		
		a. 4	b. 8	o.c. 16	5 20	d. 32				
		, E.	40,			\(\theta_{-}\)				
	2.	To stop runni	ng of timer	in:	struction	can be used				
		a. SETB TF1		ETB TR1		CR TF1	d. CCR TR1			
		697								
	3.	of tin	ner is auto re	load mode.						
		a. Mode 0	b. M	lode 1	c. N	Mode 2	d. Mode 3			
			CT.		9/1					
	(5 [°] 4.	8051 transmi	ts data serial	ly on pin	<u> </u>					
		a. T x D	b. R	x D	c. T	0	d. T1			
N. S.	5.	SCON is	bit registe	er.						
		a. 4	b. 8		c. 1	6	d. 32			

υ.	The baud rate of serial communication in 8031 is set by							
	a. Timer 0 mode	0	b. Timer 1	b. Timer 1 mode 1				
	c. Timer 1, mod	e 2	d. timer 0 n	d. timer 0 mode 2				
7.	Lowest priority i	nterrupt is						
	a. RI	b. TFO	c. INTO	d. TF1				
8.	MOV IE , #88H	instructions will	ns will enableinterrupt					
	a. RI	b. TFO	c. INTO	d. TF1				
9.	These are analog inputs in ADCO808							
	a. 2	b. 4	c. 8	d. 16				
10.	pin of 1	6×2 LCD is used	d to select command	/ Data register.				
	a P/W	h DC	o DO	aot à				