## 機算機原理及應用 (ET3403302) Microcomputer Principles and Applications

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	Ol t	#Quiz 2	I	nstructor: Y.H., Lin 2023/10/20
Score (得分)	:	dent ID (學號):_	B11102123 Name (姓名	):_ 『草柳辰
Examination Ti	me (考試時間): 40 minut	es		
Fill Questions (	填充題): 4 points for a sp	ace (一個空格	4分。共100分)	
	interrupt sources of 8051.		•	
RESET, TFO	), TF1,,	INTI	, TI and RI.	
			using the timer's mode 1, the	e following steps
are taken. If	XTAL = 12 MHz, what is	s the frequency	of P1.1?(igno	ore overhead)
	MOV TMOD,#10	Н	;Set Timer 1, mode 1(16-b	rit)
AGAIN:	MOVTLI	,#0F6H	; initial count values, LOV	V byte
	MOVTHI	,#0FFH	; initial count values, HIG	
	SETB TRI	_	;start Timer 1	FF F b
BACK:	JNB TFI	_,BACK	;stay until timer rolls over	9 9
	CLR TRI		;stop Timer 1	TOA
	CPL P1.1		;comp. P1.1 to get hi, lo	
	CLRTFI		;clear Timer 1 flag	losts lasta
	SJMP AGAIN		;is not auto-reload	7= 7042 1= 11-3 = 1.3.1.3 1= 50 1-3
3asynchronou	serial data	communication	on is widely used for	character-oriented stokes
transmissions	, while block-oriented da	ata transfers use	the synchronous method.	
4. When Timer	is used to set t	he baud rate it	must be programmed in n	node 2, that is 8-bit,
auto-reload.				
5. Which comm	unication mode does th	e serial port of	8051 belong to? Simplex,	Half Duplex, or Full
Duplex.	ull Duplex			

6. Please write the full name of the following abbreviations(請寫出下列縮寫的全名): (a) bps: bits per seconds (b) ISR: interrupt service routine (c) RI: receive interrupt (d) TI: transmitte interrupt (e) UART: universal asynchronous receiver transmitter 7. The 8051 has two pins that are used specifically for transferring and receiving data serially. These two pins are called \_\_\_\_\_RxD \_\_\_\_ and TxD are part of the port 3 group (P3.0 and P3.1). 8. The moment a byte is written into \_\_\_SBUF \_\_\_, it is framed with the start and \_\_\_stop\_\_ bits and transferred serially via the TxD pin. 9. Finish Program 1, using "Indirect addressing" method to write a function to transfer memory data from RAM address 30H-40H to RAM address 60H-70H. ;Program 2 ;Program 1 ORG H0000 MOV LJMP MAIN R1, #60H MOV ORG 0013H R2, #10 #11H - 17H MOV P1.5 SETB MOV R3,#255 BACK: BACK: DJNZ R3, BACK noH MOV A, @R0 CLR P1.5 MOV @R1, A RETI ORG 0030H INC RO MAIN: MOV IE,#10000100B ;enable INC R1 external INT1 R2, BACK DJNZ SJMP HERE HERE: 光减 再测試 END 10. In Program 2, OOOD H is the interrupt vector of RESET. OO13 H is the interrupt vector of INT1.

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