微算機原理及應用 (ET3403302)

1	Microcomputer Principles and Applicat	Instructor: Y.H., Lin
	#Quiz 1	2023/10/04
Score (得分):	Student ID (學號):	Name (姓名):
Examination Time (考試時間):	40 minutes	
Fill Questions (填充題): 4 point	s for a space (一個空格 4 分。共 100)分)
	address lines can provide a total of 6	
End	ports (each 8-bits wide) all on a sing	
3. The <u>END</u> directive is us	sed to indicate the end of the program	n. PPE
4. The vast majority of 8051 re	gisters are 8-bit registers. However, 1	register DPR and PC
are 16-bit.		
5. In the case of the 8051 f	amily, the reset value of program	counter is ORGO when the
microcontroller is powered u	p. ₽1	Po shage of 1

6. In the case of the 8051 family, which port can be used for data bus?

7. Please write the full name of the following abbreviations(請寫出下列縮寫的全名):

(a) SoC: System on chip

(b) IoT: internet of thing

(c) SFR: Special function register

(d) SP: Stack pointer

8. The 8051 provides a total of five distinct addressing modes. Please give an example of each of the os (請以"MOV"指今各舉出一個例子)

MICI	mon detions.	(041 500	****	314 5 33
(1) Imn	nediate consta	nts: N	IOV A,	#9CH

MOVA, @A

(3) Direct addressing:

(4) Indirect addressing: MOV A TCH

9. Please show the register value after following instructions.

mf= 11412

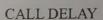
CLRC

10. Please write a one loop delay subroutine for CALL DELAY. If the crystal frequency is 12MHz, the

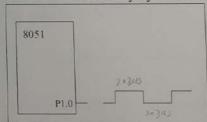
time delay is 203µs.

$$m_c = 1us$$

HERE:







CALL DELAY

SJMP HERE

12. Monitoring P2.2. If the P2.2 is high, A is set to #55H. Otherwise, A is set to #00H.

SETB P2.2

;set P2.2 an input

MOV A, #00H

JNO, 82.2. 1004

LOOPI: JBNZ P22, LOOP :

MOV A, #55H

SJMP LOOP1