

# Digital Logic Design

## Quiz 06

2024/05/14

姓名:

學號:

系級:

1. For the following state table:

Present State	Next State		Output	
	x = 0	x = 1	x = 0	x = 1
a	c	b	1	0
b	e	c	0	1
c	d	b	1	0
d	a	d	0	1
e	d	b	1	0

(1) Tabulate the reduced state table. (60%)

(2) Draw the state diagram corresponding to the reduced state table. (40%)

(1) (a, b, c, d, e)

(a, c, e) (b, d)

(a) (c, e) (b) (d)

TC簡

⇒ (a)(c)(b)(d)

PS	NS		output	
	x = 0	x = 1	x = 0	x = 1
a	c	b	1	0
b	c	c	0	1
c	d	b	1	0
d	a	d	0	1

(2)

