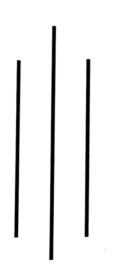
TRIBHUVAN UNIVERSITY

PATAN MULTIPLE CAMPUS

PATAN DHOKA, LALITPUR



DIGITAL LOGIC (BIT 103)

SUBMITTED BY

SUBMITTED TO

NAME: Suresh Daha/ CLASS: BIT - I-I

ROLL NO: .2.3

DATE: 2080/12/16

JYOTI PRAKASH CHAUDHARY

TITLE: DESIGN SEVEN SEGMENT DISPLAY CIRCUIT DISPLAY THE DECIMAL NUMBERS 2,7 AND 3.

9) OBJECTIVE :-

> To design seven segment display circuit to display the decimal numbers 1.7 and 3

6.) REQUIREMENTS:

- i) Digital logic kit and Simulator
- ii) Legge gates and connecting wives
- iii) Interactive / sequence generator as input iv) 7 segment display as output
- v) LO

() THEORY:-

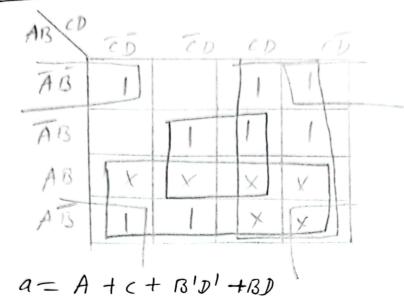
Seven segment display consists of 7 segments a soldier fig to display numbers or characters. BCD input is given to the BCD to 7 segment decoder Which gives (7) seven outputs.

TRUTH TABLE

Inputs				00	outputs					
A	B	C	D	a	6	6	1	e	7	9
0	0	0	6	1	1	1	1	!	1	0
0	0	0	1	0	1		0	0	0	0
0	0	1	0	1	1	0	1	1	0	1
0	0	1	1	1	1	1	1	0	0	1
0	1		0	0	1	1	0	0	0	Ī
0	1	0	1	1	0	li	1	0	1	1
0	1	1	0	1	0	1	1	1/	i	1
0	1	1	1	1		1	0	0	0	0
1	0	6	0		1	1	1	1	1	11
1	0	0			1	X	1	0	1	1

LOGIC EXPRESSION

FOR a



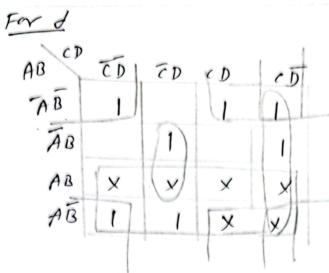
For b

ABCP	TOD	ZD	LD	5/
AB	1			
AB	1		1	
AB	×	Х	X	X
AB	NU	1	X	X
			Anadorphis (Artis) (Fig. Besetts (1980))	Married Street, control on a new York, party

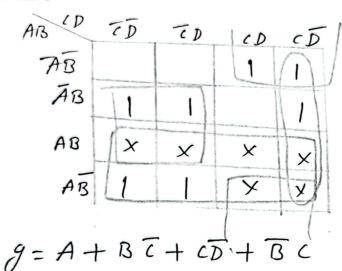
$$b = B' + cD + c'D'$$

For C AB	TO	()	c]	c D
ĀB ĀB	TI		1	
FB			1	11
AB	X	X	X	
AB	1		у	×

$$c = c' + D + B$$



For g



7-71 100 100 10

LOGIC CIRCUITS

