Experiment wo: 13

Nane: D-laten

Aim: construct , test and investigate the operators

objectuel: to study the obstruction and the working

Componenti: Bread board/kit; 7404 Teory:

P. latch: This latch had only 2 inputs. D (data)
and En (enable). The D input goes directly to the
Sinput, ainorit's complement is applied to the
Rinput. As long as the enable input is at 0, the
Cross-coupled or -latch has both input at
the ileness and the sircit cannot charge states
regardless of the value of D.

Del ne output goes to 1, Placery the circuit inte the set state. If b =0, output a goes to 0, placing the circuit in the circuit in the reset state. The D-laten veries the designation from it's ability to hold data in the internet storage

Procedure:

1 constructions are made as per the circuit diagrans
2 switch on the power supply

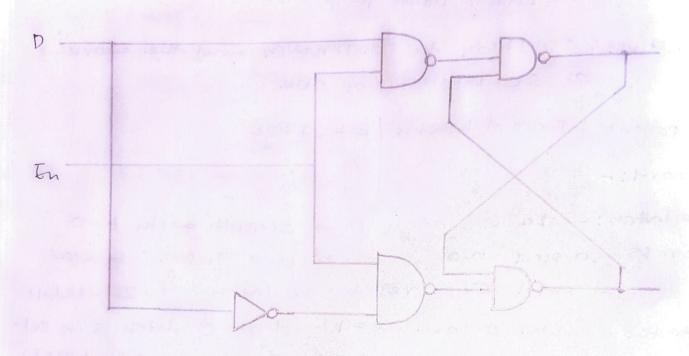
Apply different combinations of Inputs and Obstile
the output with the truith table

posu1+

fiftyent logic circuts one constructed and heir

## Circuit diagram

D-latch



## Trum table

		I The second of the second
Εx	D	next stepe of a
0	×	No charge
1	0	a = 0 . reset state
	1	ce=1; Set state