1 1 19 19 1 CSE 260 TLAB Report - 31 1951 Granding and Fuen Panity cheeren using York Experciment Name: Parity Generators and Checker stranging boo strangers hamiles 1. AT-700 Parleble Analog/ Digital Laboratory s FART & 4 3. Wires Submitted by: · Udoy Sahatse Istromissand Name : 2130 10 95 910 HARA NOVIO ID , 10 Section 19 March, 2022 Date

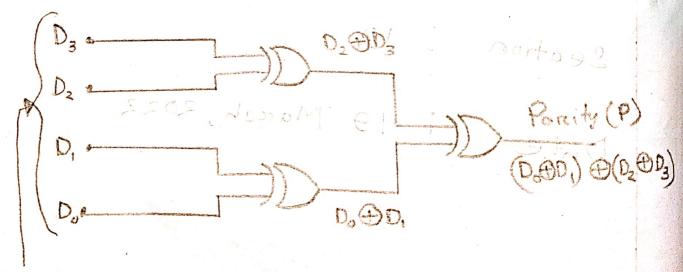
Objective: To design and implement an Even Parcity
Generator and Even Parcity checker using XOR
gates (IC-7486) 300

Required Components and Equipments:

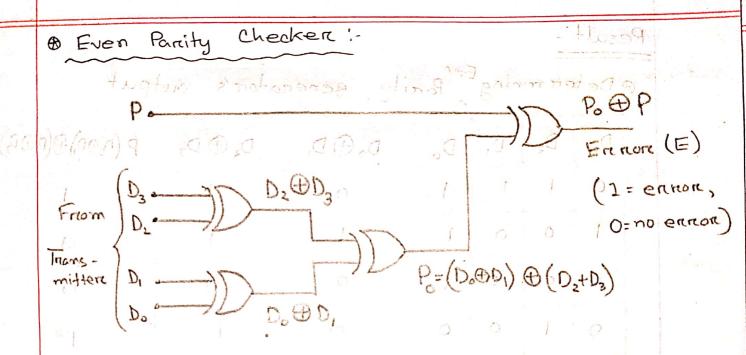
- 1. AT-700 Portable Analog/Digital Laboratory
- 2. 7400 × 4
- 3. Wines

Experimental Setup! - 1000 0000 00000

Even Parity Generators >



Original Data



Now, we have to construct the figures on the breadboard of AT-700. We need to remember that, each
IC's pin 14 is connected to (+5 v) position of DC power
supply, of AT-700, and pin 7 is connected to GND'
position. Now, connecting the inputs to Data Switches
and outputs to any position of LED display, we need
to generate the parity bit for =>
a) 0111, b) 1001, c) 0000, d) 0100
And also check the parity for =>
p D3 D2 D1 D0

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	<b>(a)</b>	De	ten	-sys	mining Even Parcity generator's output							
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each	Determining Parity checkers out put  P D3 D2 D, D0 D. DD D2 D3 P0 = (0.00) (D203) E=P0 P											
	P	D <sub>3</sub>	D2	D,	Do	D.OD	$D_2 \oplus D_3$	ωP3= ·(D	A(1)	$(D_2 \oplus D_3)$	E-POBP	
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(00000 (d , 11106)

And also check the parety ford =>

## Discussion:

while determining the Even Parity Generator's output, I have noticed that, whenever I have Even number of 1's in by my data, the Parity Bit is O. For odd number 1's, the Parity Bit is I to make the number of 1's even.

Then, while checking the Even Parity Bit, I firstly generated the Parity for the transmitted data. Then I operated an X-OR operation with my derived Parity and the given Parity bit. Here, if the nesult is 0, there will be no error, meaning the Parity is connect. And I for otherwise. After getting the results, I got to know that for 1010 and 1110 there were no error. But there were errors for 1111 and 0000 in the given data, because their Parity Bits didn't match.