	Parity generalis and Checker
	A parity checker is used to detect cross during liansmission of binary data Parity bit is
	during leansmusion of binary data Parety but is
	lised to Check the date
	Parily Generalis - The digital Circuit That generalis a
	Parily Generalor - The digital Circuit That generalis a parily but in the liansmitter is known
	Parety Checker: - The digital Criccier That Checks the parety but at the viecewer is parety check
	Parity Checker: - The digital Ciccuir that checks the
	parily bit at the viecewer is parily check
	PARITY GENERATOR:
	Jeli Pake a Example of 7 hits
	and Even Parity
	0010001
	Parity bit - it will be !
	Dala Buls (1 Ques)
	Sadd Even Parity  O O 1 O O O  Raity bit -> et will be 1  Dala Bits  (1000)  if the code.  Use no of 15, is even after adding the parity bit
	The no of 1's is even after adding the parity bis
	odd fauly
	170/1/10/01/1
	Dala Bels Possiti Bell
	Dala Bili Pacuty Bilis (4 Ones) (1)
	The no of 1's in the code is odd after adding the
_	parity bit
	1010100
_	
	Dala Posts Pauly Bit (3 Ones)
	•

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	O	0	1	•	- A(B	C+BC) + A(BC+BC)
	0 1	1	0			B € C ) + A € B € C)
	l D	0				,
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	A B	C	Po	/	<b>-</b>	0
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## Parity Checker

· The parity checker circuit is at the received

· The output of the parily checker circuit is denoted by PEO Parily Error Output

PEO = 1 when the error is present are if the received four bir word has even parely

PEO = 0 when there is no error present in g

The received four bir word has an odd.

parely

Even Parity Checker

A B C Postet Parity Check

0 1 0 0 1 = ABCPo + ABCPo 0 1 0 1 0 TBCPo + ABCPo

0 1 1 0 0 ABCP + ABCP 0 1 1 1 ABCP + ABCP

1 0 0 0 1

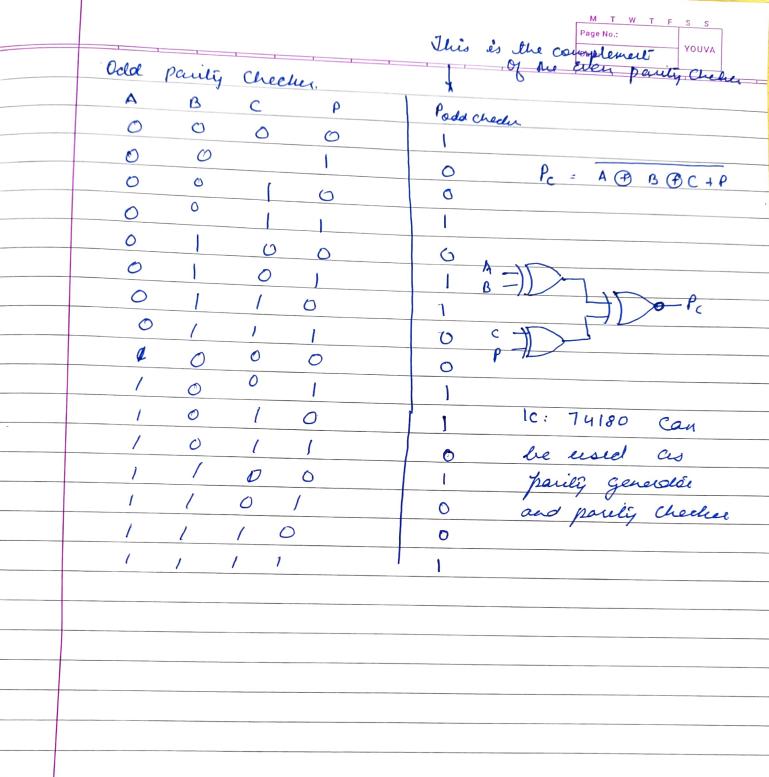
1011 + AB (CP. + CP.)

1 / 1 0 1 + AB (CP + CP) + AB (CP+CA)

1 1 1 0 = AB ( (cro+cro)

= + A (P B (F) C (B) P

This can be developed using knop



BCD 70 7 SEGMENT DECODER.

e 19 10

	MSB.	
	}	BCO a we a
BCD	в —	60 c - w -   f   - g
Input	c —	7 Seguert de me e c
	2 -	g, m d
	L LSB	

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15 Dont Care.

