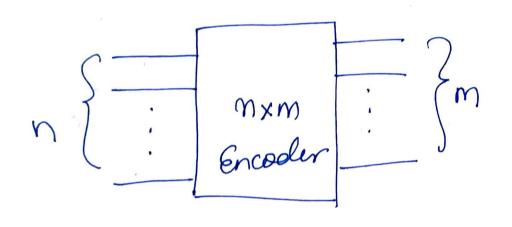
## Introduction to Encoders 1 Decoders

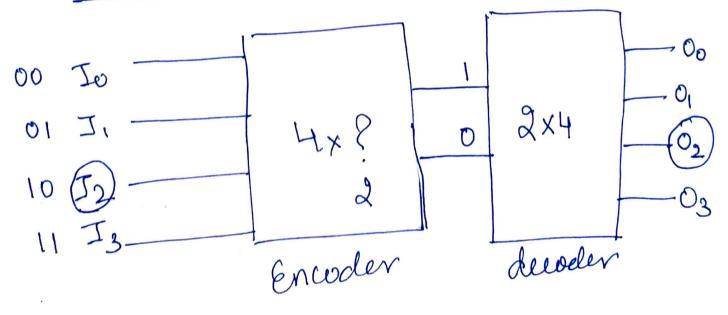
1> They are combinational circuits.

Lo Encoders have "n" Inputs 2 "n" outputs.

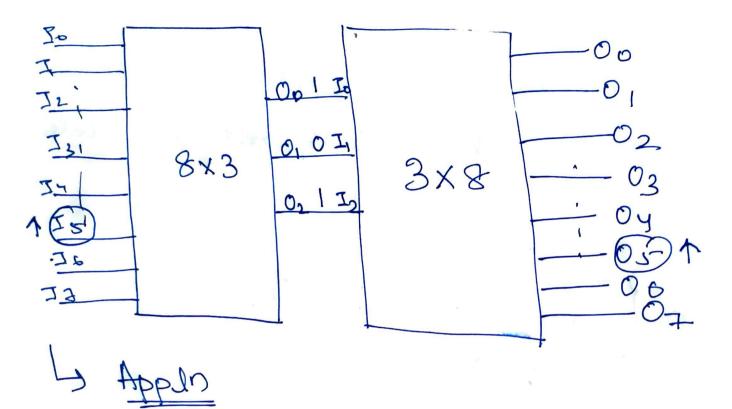
Ly Function of decoder is opposite to encoder



L) Encoder



Enwder Leeder is reverse.



Express Boolean Expossion by reducing the Connections.

Types of Encooler

i) Priority Encoeler

# If more than one IIP is high, the priority
has to given (smallest priority or largest
priority

2) Decimal to BCD

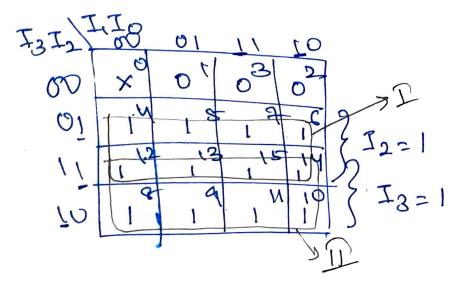
3) Octal to brinary.

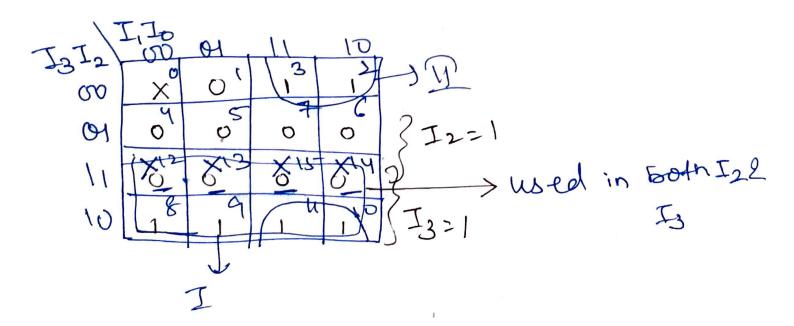
Priority Encoder

Ly I31-1 1/2=1

_	Iz	$I_2$	7,	Io,	41	10
_	0	0	O	O	X	×
	O	$\bigcirc$	O	١	0	0
	0	O	\	X	0	1
	0	1	×	×	\	0
	1	X	×	×		1

& K-Map





Now, the above expose the inputs are

## Decimal to BCD

	Decimal B 2 to C BCD encoder
decimal Input	BCD D C B A
0	0 0 0 0
1	0 0 0 0
B-1= 3	0 0 1
5	0 1 00
(=1 6	0 1 10 -> 3=1
D = 9/	1000

D = 849 C = 245 + 6 + 78 = 243 + 6 + 7 A = 1 + 3 + 5 + 7 + 9

