Date :- 25/08/2022
Examination Roll No.:- 21312915017
Name of Program :- B. Tech. (Information Tech. and Mathematical Innovation)
Semester :- Ist Sem.
Unique Paper Code :- 32861104
Title of the Paper :- Understanding computer system Architecture.

(1)

Solution 3

x	y	z	A	B	C
0	0	0	0	0	1
0	0	1	0	0	0
0	1	0	0	1	1
0	1	1	0	1	0
1	0	0	1	0	1
1	0	1	1	0	0
1	1	0	1	1	1
1	1	1	1	1	0

for A

	$y'z'$	$y'z$	yz	yz'
x'	0	0	0	0
x	1	1	1	1

$A = x$

B

	$y'z'$	$y'z$	yz	yz'
x'	0	0	1	1
x	0	0	1	1

$B = y$

C

	$y'z'$	$y'z$	yz	yz'
x'	1	0	0	1
x	1	0	0	1

$C = z'$

x ———————— A

y ———————— B

z ——|>o—— C
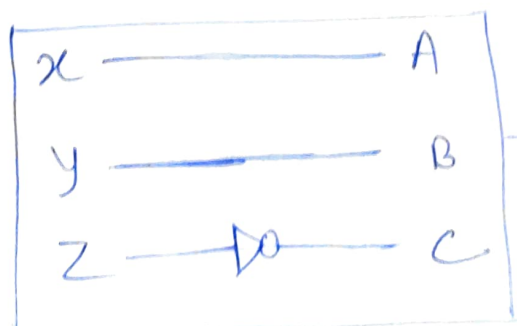
→ Combinational Circuit.

→ 3 input NAND gate using 2 input NAND gate

x

y

z

$(xy)'$

(xy)

$(xyz)'$

z