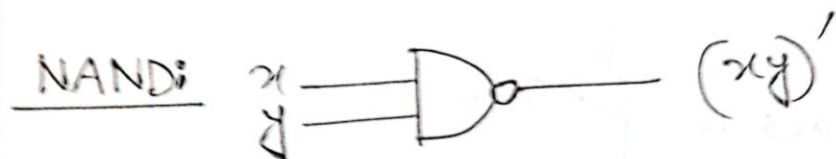


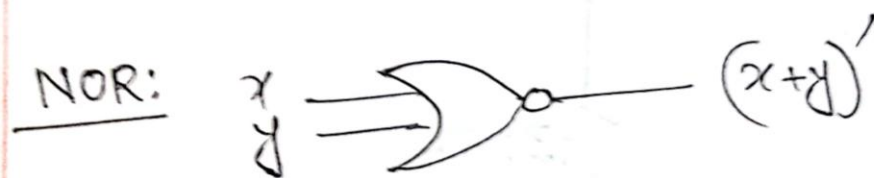
Chapter-4

Logic Gates

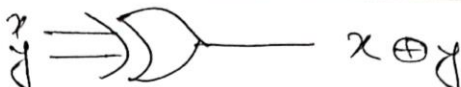
Logic Gates



xy	$(xy)'$
00	1
01	1
10	1
11	0



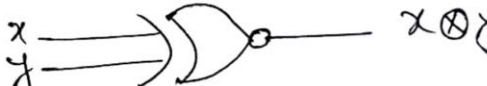
xy	$(x+y)'$
00	1
01	0
10	0
11	0

EXOR:  $x \oplus y$

xy	$x \oplus y$
00	0
01	1
10	1
11	0

$$F = x'y + xy'$$

$$= x \oplus y$$

EXNOR:  $x \odot y$

xy	$x \odot y$
00	1
01	0
10	0
11	1

$$F = x'y' + xy$$

$$= x \odot y$$