Subject: _____ Date 14/1/15

(Lecture 13) Truth Table

→ $(\bar{x}+y)\cdot\bar{x}$

$= \bar{x}\cdot\bar{x} + \bar{x}\cdot y$

$= \bar{x} + \bar{x}\cdot y$

$= \bar{x}(1+y)$

$= \bar{x}\cdot 1 = \bar{x}$ Ans

x	y	x'	x'+y	(x̄+y)·x
0	0	1	1	1
0	1	1	1	1
1	0	0	0	0
1	1	0	1	0

→ $x'\cdot y + xy' = x \oplus y$

x	y	x'	y'	x'y	xy'	x'y + xy'	x ⊕ y
0	0	1	1	0	0	0	0
0	1	1	0	1	0	1	1
1	0	0	1	0	1	1	1
1	1	0	0	0	0	0	0