SIT111 3.2C

a)

f(x,y)= -1

	x=0001(1)	y=0011(3)
zx- 1	0000	-
nx-1	1111	-
zy-1	-	0000
ny-0	-	-
f-1	1111(-1)	-
no-0		
Output:1111(-1)		

b)

f(x,y)= !x

zx-0	x=1010 (10)	y=0011 (3)
nx-0	-	-
zy-1	-	-
ny-1	-	-
f-0	-	-
no-1	-	-
Output:0101(5)	0101(5)	

c)

f(x,y)= x+1	x=1011 (11)	y=0001(1)
zx-0	-	-
nx-1	0100	-
zy-1	-	-
ny-1	-	-
f-1	0100+1	-
no-1	-	-

Output: 0101(5)

d)

f(x,y)= x+y	x=1011 (11)	y=0101 (5)
zx-0	-	-
nx-0	-	-
zy-0	-	-
ny-0	-	-
f-1	1011+0101	-
no-0	-	

Output: 10000(16)

e)

f(x,y)= x&y	x=1011(11)	y=1001(9)

zx-0	-	-
nx-0	-	-
zy-0	-	-
ny-0	-	-
f-0	-	-
no-0	-	-

Output: 1011 AND 1001 : 1001(9)