	Date
	PRACTICAL - 2
Q1	Binooy to Decimal
a	$(0101)_2 \rightarrow ()_0$
	$1 \times 2^{\circ} + 0 \times 2^{\prime} + 1 \times 2^{2} + 0 \times 2^{3}$ $1 + 0 + 4 + 0$ $(5)_{10}$
<i>b</i>	(OIII)2 -3 (),0
•	$0 \times 2^{3} + 1 \times 2^{2} + 1 \times 2^{6} + 1 \times $
• c	(0011)2-3()16
•	$0 \times 2^{3} + 0 \times 2^{2} + 1 \times 2^{4} + 1 \times 2^{6}$ $2 + 1$ $(3)_{10}$
d	(1001)2-3()10
	$\frac{1 \times 2^{3} + 0 \times 2^{2} + 0 \times 2^{1} + 1 \times 2^{6}}{8 + 1}$ $(9)_{10}$
e	(1011)2-3()16
•	$1 \times 2^{3} + 0 \times 2^{2} + 1 \times 2^{6} + 1 \times 2^{6}$ $8 + 0 + 2 + 1 \Rightarrow (11)_{10}$
•	#

$\frac{(21)_{10}}{(21)_{10}}$ $\frac{(21)_{10}}{(21)_{10}} = \frac{(21)_{10}}{(21)_{10}}$		Date
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	f	(1111)2 -3 ()10
$g (0000)_{2} \Rightarrow ()_{16}$ $0 \times 2^{\circ} + 0 \times 2^{\circ} + 0 \times 2^{\circ} + 0 \times 2^{\circ}$ $0 + 0 \Rightarrow + 0 + 0$ $(0)_{10}$ $k (1101)_{2} \Rightarrow ()_{16}$ $i \times 2^{\circ} + 0 \times 2^{\circ} + i \times 2^{\circ} + i \times 2^{\circ}$ $i + 0 + 4 + 8$ $(13)_{10}$ $82 (onservior, Binary to Drainal)$ $a (00010101)_{2} \Rightarrow ()_{10}$ $i \times 2^{\circ} + 0 \times 2^{\circ} + i \times 2^{\circ} + 0 \times 2^{\circ} + i \times 2^{\circ} + 0 \times 2^{\circ}$ $i + 4 + 16$ $(21)_{10}$ $b (10110101)_{2} \Rightarrow ()_{10}$ $i \times 2^{\circ} + i \times 2^{\circ} + i \times 2^{\circ} + i \times 2^{\circ} + i \times 2^{\circ}$ $i + 4 + 16 + 30 + 128$		
$g = (0000)_{2} \Rightarrow ()_{16}$ $0 \times 2^{\circ} + 0 \times 2^{\circ} + 0 \times 2^{2} + 0 \times 2^{3} + 0 \times 2^{4}$ $0 + 0 \otimes + 0 + 0$ $(0)_{18}$ $R = (1101)_{2} \Rightarrow ()_{16}$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{2} + 1 \times 2^{3}$ $1 + 0 + 4 + 8$ $(13)_{10}$ $B2 = (00010101)_{2} \Rightarrow ()_{10}$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{3} + 0 \times 2^{3} + 1 \times 2^{4} + 0 \times 2^{5} + 0 \times 2^{5}$ $1 + 4 + 16$ $(21)_{16}$ $b = (10110101)_{2} \Rightarrow ()_{16}$ $1 \times 2^{\circ} + 1 \times 2^{2} + 1 \times 2^{4} + 1 \times 2^{5} + 1 \times 2^{7}$ $1 + 4 + 16 + 3 + 128$		
$0 \times 2^{\circ} + 0 \times 2^{\circ} + 0 \times 2^{2} + 0 \times 2^{3} + 0 \times 2^{4}$ $0 + 0 \otimes + 0 + 0$ $(0)_{1} \otimes 0$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{3}$ $1 + 0 + 4 + 8$ $(13)_{10}$ $0 \otimes 0$ $0 \otimes 0 \otimes 0 \otimes 0 \otimes 0$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{\circ} + 0 \times 2^{3} + 1 \times 2^{4} + 0 \times 2^{5} + 0 \times 2^{6}$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{\circ} + 0 \times 2^{3} + 1 \times 2^{4} + 0 \times 2^{5} + 0 \times 2^{6}$ $1 \times 2^{\circ} + 0 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{5} + 1 \times 2^{5}$ $1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{5} + 1 \times 2^{5}$ $1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{5} + 1 \times 2^{5}$ $1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{5} + 1 \times 2^{5}$ $1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{5} + 1 \times 2^{5}$		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8	
$\begin{array}{c} (O)_{13} \\ R & (1101)_{2} = 3 \ ()_{16} \\ \\ (12)^{6} + O \times 2^{7} + 1 \times 2^{7} + 1 \times 2^{3} \\ 1 + O + 4 + 8 \\ (13)_{10} \\ R) & (Onversion, Binary to Decimal) \\ a & (Ocololol)_{2} = 3 \ ()_{10} \\ \\  x ^{6} + O \times 2^{7} +  x ^{2} + O \times 2^{3} +  x ^{4} + O \times 2^{5} + O \times 2^{6} \\  t+4  + 16 \\ (21)_{16} \\ \\ b & (10110101)_{2} = 3 \ ()_{16} \\ \\  x ^{6} +  x ^{2} +  x ^{2} + 1 \times 2^{5} + 1 \times 2^{7} \\  t+4  + 16 + 3) + 128 \end{array}$		$0 \times 2^{\circ} + 0 \times $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$(0)_{12}$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	R	(1101), -3 (),
(13) <sub>10</sub> B) Conversion, Binary to Decimal  a $(00010101)_2 \xrightarrow{3} ()_{10}$ $1 \times 2^{\circ} + 0 \times 2^{1} + 1 \times 2^{2} + 0 \times 2^{3} + 1 \times 2^{4} + 0 \times 2^{5} + 0 \times 2^{6}$ $1 + 4 + 16$ $(21)_{10}$ b $(10110101)_2 \xrightarrow{3} ()_{10}$ $1 \times 2^{\circ} + 1 \times 2^{1} + 1 \times 2^{5} + 1 \times 2^{7}$ $1 + 4 + 16 + 32 + 128$		1x2°+0x2'+1x22+1x23
a. $(00010101)_2 \rightarrow ()_{10}$ $1 \times 2^{\circ} + 0 \times 2^{\prime} + 1 \times 2^{2} + 0 \times 2^{3} + 1 \times 2^{4} + 0 \times 2^{5} + 0 \times 2^{6}$ $1 + 4 + 16$ $(21)_{10}$ b. $(10110101)_2 \rightarrow ()_{10}$ $1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{\circ} + 1 \times 2^{\circ}$ $1 + 4 + 16 + 32 + 128$		
a $(00010101)_2$ $\xrightarrow{5}$ $()_{10}$ $ x?^{\circ} + 0x2^{\prime} + 1x2^{2} + 0x2^{3} + 1x2^{4} + 0x2^{5} + 0x2^{6}$ $ +4 + 16 $ $(21)_{10}$ $b (10110101)_2 \xrightarrow{5} ()_{10}$ $ x2^{\circ} + 1x2^{2} + 1x2^{4} + 1x2^{5} + 1x2^{7}$ $ +4 + 16  + 32 + 128$	R)	Conjugación Binoqui to Decimal
$ x2^{\circ} + 0x2^{\prime} + 1x2^{\circ} + 0x2^{3} + 1x2^{4} + 0x2^{5} + 0x2^{6}$ $ +4 + 16 $ $(21)_{10}$ $ b  (10110101)_{2} \rightarrow ()_{10}$ $ x2^{\circ} + 1x2^{\circ} + 1x2^{4} + 1x2^{5} + 1x2^{7}$ $ +4 + 16  + 32 + 128$		
$ \begin{array}{c} (21)_{10} \\ (21)_{10} \\ (21)_{10} \end{array} $ $ b \left( \frac{10110101}{2} \right)_{2} - 3()_{10} \\ 1 \times 2^{0} + 1 \times 2^{1} + 1 \times 2^{1} + 1 \times 2^{5} + 1 \times 2^{7} \\ 1 + 4 + 16 + 37 + 128 \end{array} $	a	(00010101)2 5 ()10
$\frac{(21)_{10}}{b} \frac{(10110101)_{2} - 3()_{10}}{(10110101)_{2} - 3()_{10}}$ $\frac{1 \times 2^{0} + 1 \times 2^{1} + 1 \times 2^{1} + 1 \times 2^{5} + 1 \times 2^{7}}{1 + 4 + 16 + 37 + 128}$		[ [제품: 4] 등이 있는 사람들은 이 사람들이 되었다. 그 전에 대한 경험 전략을 받는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
$b = (10110101)_{2} - 3()_{10}$ $1 \times 2^{0} + 1 \times 2^{1} + 1 \times 2^{1} + 1 \times 2^{5} + 1 \times 2^{7}$ $1 + 4 + 16 + 32 + 128$		
$\frac{1\times2^{\circ} + 1\times2^{2} + 1\times2^{5} + 1\times2^{7}}{1+4+16+32+128}$	Ь	(10110101) - 9()
1+4+16 + 37+128		
		1+11+16 + 37+128
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		

	Date			
	(11010011)2-3 ().0			
•				
7	$1\times2^{\circ} + 1\times2^{\circ} + 0\times2^{3} + 1\times2^{4} + 0\times2^{5} + 1\times2^{6} + 1\times2^{7}$ $3 + 16 + 64 + 128$			
	$(211)_{10}$			
d	(01101000)2 -3 (),			
	$1 \times 2^3 + 1 \times 2^5 + 1 \times 2^6$			
•	8 + 32 + 64			
•	(104)10			
03	Binary to Deimal			
• a	(1011010100010101) <sub>2</sub> -3 () <sub>10</sub>			
•	$1\times2^{\circ}+1\times2^{\circ}+1\times2^{5}+1\times2^{8}+1\times2^{6}+1\times2^{12}+1\times2^{13}+1\times2^{13}$			
4	1+4+16+256+1024+4096+8192+32768			
•	(46357)			
•				
<b>6</b>	(0110100011010011)2 -> ()16			
	$1 \times 2^{\circ} + 1 \times 2^{1} + 1 \times 2^{4} + 1 \times 2^{6} + 1 \times 2^{7} + 1 \times 2^{8} + 1 \times 2^{13} + 1 \times 2^{14}$			
	1+2+16+128+2048+8192+16384			
•	(26835)10			
-	T 10.			
04	True / false			
a	(1001)2 < 5/2 (5)10 False			
Ь	$(0111)_2 = (1111)_{10}$ false			
	$(0011)_2 > (2)_{10}$ True			
d	(1001)2 > (1101)2 False			

		Date
e	(1011), = (11),0	True
f	$(1111)_{2} = (15)_{10}$	True
9	(0000)2 < (0)10	False
X	$(1101)_2 > (1010)_2$	True

