Date: / / Page

UNIT-3

0	Computes	Orger nization	->	Subject

8	- Number	sustems	30
	-> Thee	ase 4 t	Lips

->	There w	E a cip		11
1) Decimal	Number	sustem	

y Binary Number sustem

3) Octal Number sustem

4) Hexadecimal Number sustem

t Base 10 (000g)

02 (0,1) 08 (0007)

16 (000 15)

10 -> A, 11-B 12-C, 13-D, 16-E, 15-F

1. Decimal to Birmary 2) Binary to Decimal

0 (1110101)2 (?)10 a (543) 10 (9)2

64 32 16 8 4 2 1 543 271 1

135 1

= 64+32+16+4+1 67 1 33

=(117)101 16

2 8 0

0

= (1000011111)₂

e.g.	CL) FIL	ot(?) s(tottto!
	2 58 1	
	2 29 0 128	64 32 16 8 4 2 1
	2 14 1 1	t o t t t o t
	2 7 0	& - Allember Sustems is
		8 +64 + 16 +8 +4+1
		Decimal Number
	150	[221] 10 N N 10 1 (LSS)
	Stone Smoto	1 D Octol Kinappes 57
7	Decimal to Binasy Bin	asy to Decimal 14 (1)
(3)	Decimal to octal	-, coath the
bodis	(117)10 (2)8	$(154)_{10}$ (?)8
otl	117 6000 6	154 (XX3) 6
	8 14 5	8 19 2
. 8	8 1 6	8 2 3 43
0		1 1 1 2 2 3
	= (165)8	= (232)8
	このなりまるようとはのます	7 7 5 6
(4)	Decimal to Hexa	decimal
	Description .	took solo
	(754) to (9) to	(897)10 (2)16
		The state of the s
	754	897
	16 47 2	16 56 1
	16 2 15	16 3 8
	= (2152)16	$=(381)_{16}$
	(202)20	- (302)16
	$=(2F2)_{16}$	
	- (2+4)16	

	(P) _(11+0+1+0)	(1) althoriting
1)	(421) to (9)2	2) (10111011)2 (2)10
	the old the	tett of too
	421	128 64 32 16 8 4 2 1 1 0 1 1 1 0 1 1
74	2 21 1	1 0 1 1 1 1 1
	2 1 1	= 128+32+16+8+2+2
	= (111),	=(187)10
	0 (250) 0	(8) (454) E
3)	(425)10 (2)8	4) (788)20 (9)26
	7 5 6	
	425	788
	8 531 1451	3 1
	000	
	= (651)8	= (314)16
25)	Binary to octal	-104+2+1=7
	(1) (1011) (0)	(111011101) ₂ (2) ₈
	(11011)2 (1)8	(111011101)2 (1)8
	011 011 101	111 011 101
3	421 421 421	421 421 421
	2+1 2+1 4+1	4+2+1 2+1 4+1
	3 3 5	7 3 5
	= (335)8	= (735)8
(6)	Octal to Binary	
	(170)	
	(432)8 (2)2	$(753)_8 (9)_2$
	421 421 421	7 5 3 421 421 421
	100 011 010	111 101 012
	$=(100011010)_2$	= (111101011)2

Date: / / Page 2(9) 2(11101111) 2 (9)8 3(1110111)2 (9)s oot to the ttt ott ttt 421 421 421 421 421 421 4+2 4+2+1 4+2+2 4+2 4+2+2 $=(167)_{8}$ = (767)8 4) (756)8 (9)2 3) (454) 8 (9)2 7 5 6 4 5 4 421 421 421 421 421 421 111 tol 2110 100 101 100 = (100101100) = (111101111)= 5) (1/1/1/10/10)2 (2)8 111 110 110 of reports It 421 421 421 421 421 = (766)8 1) (754) 10 (9) 8 3 (563) 10 (9) 16 563 754 16 35 3 8 94 2 116 = (1362)8 =(233)16Decimal to Hexadecimal Decimal to octol

		Date: / / Page	
3)	(1101111) 2 (%	4) (743)8 (2)2	
	001 101 111 421 421 421 1 4+1 4+2+1	7 4 3 421 421 421 111 100 011	
	=(157)8	$= (1111100011)_2$	
-)	Binary to octol	Octol to Binary	
5)	(743) to (2)2	6) (ttott) 2 (?) to	
	2 743 2 371 2 185 2 92 2 46 0 2 23 0 2 11 1 2 5 1 2 2 1 2 2 1 2 0 1 0	32 16 8 4 2 1 1 1 0 1 1 1 = 32 + 16 + 4 + 2 + 1 = (55) 10	
3	Decimal to Bimary	to Binary to Decimal.	
B	Headecimal to B	inaly + 8+4+2+1	
1)	(A 43) 16 (9)2		
	10 4 3 8421 8421 842 1010 0100 003		

"1, 1, 1, 1,

Date:

(ABD) 16 (2)2 10 11 13 8421 8421 8421 Loto Lott Lott = (tototototot); 8) & Binary to hexadecimal 1. (10110111)2 (2)16 tito itot 8421 8421 =(117)16=(B7)1601(5) 2 (TTOFFEDFFF) (5)10 thot thot thoo 8421 8421 8421 3 11 11 $-(31111)_{16} - (3BB)_{16}$ Octal to hexadecimal. 9 \$