Manya Gandhi
24BCA012

Practical - 1

1. 1056_{16}
↓
$(?)_2$

1	0	5	6
8421	8421	8421	8421
0001	0000	0101	0110

0001 0000 0101 0110

001	000	001	010	110
↓	↓	↓	↓	↓
1	0	1	2	6

$(1026)_8$

2. $(11672)_8 \rightarrow (?)_{16}$

1	1	6	7	2
001	001	110	111	010

001001110111010

001	0011	1011	1010
↓	↓	↓	↓
1	3	11	10

$(13BA)_{16}$

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3. $(2724)_8 \rightarrow (?)_{10}$

2	7	2	4
010	111	010	100

010111010100

$0 \times 2^0 = 0$
$0 \times 2^1 = 0$
$1 \times 2^2 = 4$
$0 \times 2^3 = 0$
$1 \times 2^4 = 16$
$0 \times 2^5 = 0$
$1 \times 2^6 = 64$
$1 \times 2^7 = 128$
$1 \times 2^8 = 256$
$0 \times 2^9 = 0$
$1 \times 2^{10} = 1024$
$0 \times 2^{11} = 0$

1492_{10}

4. $(3211)_4 \rightarrow (?)_5$

3211 → 2

$1 \times 4^0 = 1$
$1 \times 4^1 = 4$
$2 \times 4^2 = 32$
$3 \times 4^3 = 192$

$(229)_{10}$

↓

$(?)_5$

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5	229	
5	45	4
5	9	0
5	1	4
	0	1

$\rightarrow (1404)_5$

5. $(100100100)_2 \rightarrow (?)_{16}$

$0 \times 2^0 = 0$
$0 \times 2^1 = 0$
$1 \times 2^2 = 4$
$1 \times 2^3 = 8$
$0 \times 2^4 = 0$
$0 \times 2^5 = 0$
$1 \times 2^6 = 64$
$0 \times 2^7 = 0$
$0 \times 2^8 = 0$
$1 \times 2^9 = 512$

$(588)_{10}$

6	588	
6	98	0
8	16	2
6	2	4
	0	2

$\rightarrow (2420)_6$