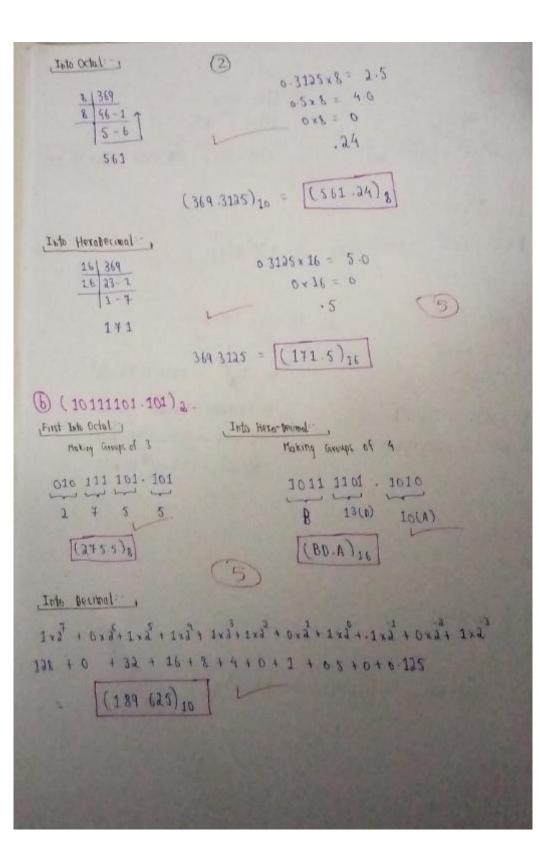
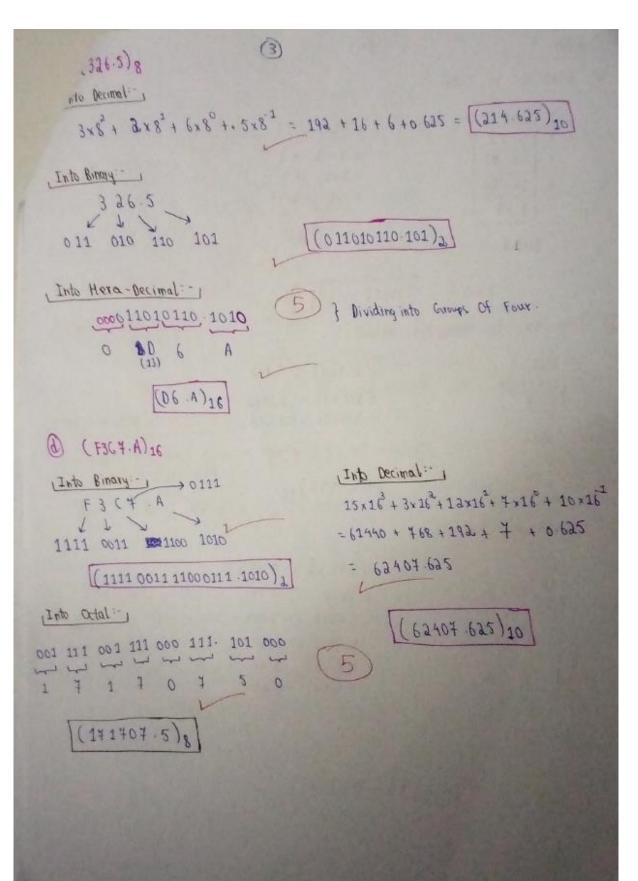
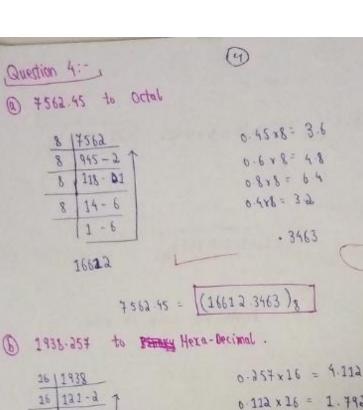
```
on 1:-
      118K bits
                                        @ 32M bits
                                           1M = 220 bits
       1K= 200 bits
                                          32M= 32×2°= 33554432 = 34×107 6/15
      128K = 128 x 2 15 = [131072 bits]
                                       (6)
 @ 85 bits
         16 = 200 bits
          18G = 8x230 = 8589934592 = 8.6 x 109 bits
Question 2:
                                 (B) 96 bits = ? H bits
  @ 64K bits = ? M bits
                                        9x 230 = 4 x 220
       64 x 210 = ayx 220
                                    y = \frac{9 \times 130}{320} = 9216 \approx 92 \times 10^{3}
         y= 64x200
                                        4-9434184 =94×166
        3=0.0625=6.25×1028
                                        96 bits 9 9×10 M bits
       64K bits = 0.0625 M bits
                                             96 bits = 92x100 H bits
 Question 3:-
 @ (369.3125)m
First Isto Buory -
    2 | 369
    2 184-1
              101110001
      23 -0
             (369 3327) = (1011 10001 . 0101) ]
      1-0
  0 3135 x2 = 0 625 30
  0-625 + 8 = 1 25 -0 1
  0 25 12 : 05 = 0
  0 5 12 1 31
```

a 101







@ 145.145 into Binary

(10101111 . 001011) 2

(5) 25.305 into base 8 0 305 x8 = 244 0.44x8 = 3.52 0.52x8 4 16 (31 234), Question 5 @ (BEE) , = (2699) 10 Determining if it is 16 - 1

Bx 162 + Ex162 + Ex160 = 11×167 14×162 + 14×160 = 3264

It is not exact to 2699, so the ris not 10

Now schecking it it is 15:

Note - the least value & can have is 15, because below 15 have getting & is not represented

Bx152 + Ex152 + 18x150 6 = 11x152 + 18x152 + 0x150 = 2699

So, 1 = 15

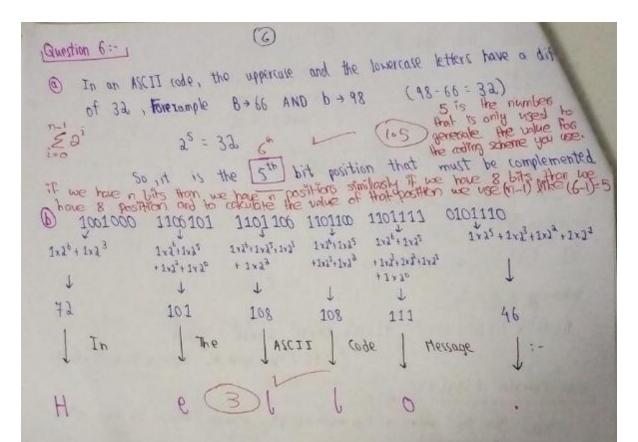
(B) (365) = (194) 10

Note. The least value + can have is 7, because below base 7 system , 6 cannot be represented.

, So, Checking for Base 7 - ,

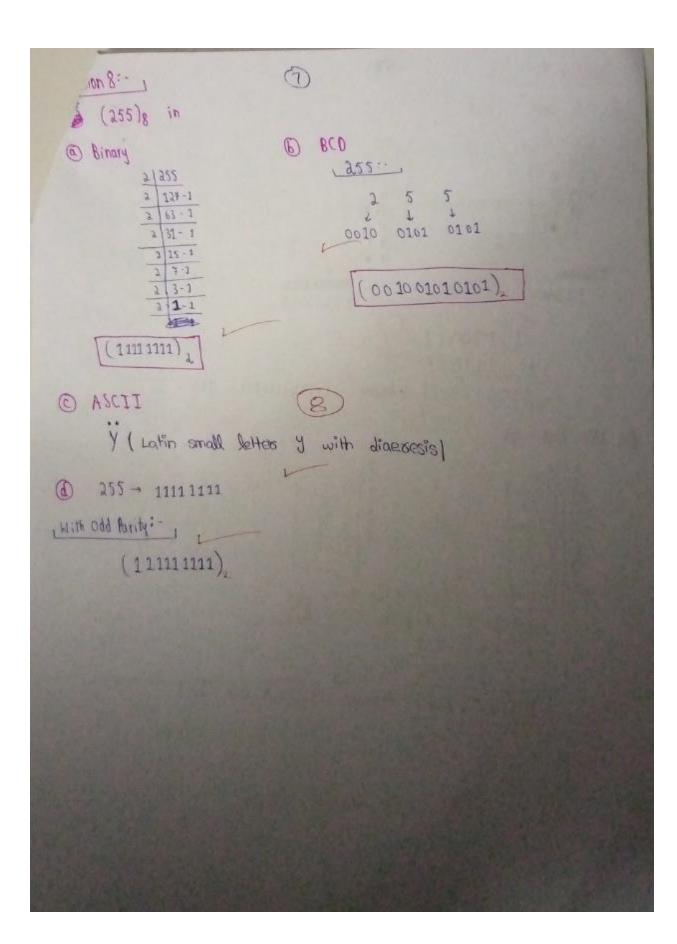
3x 42 16x 42 + 5x 40 = 147 + 42 + 5 = 194

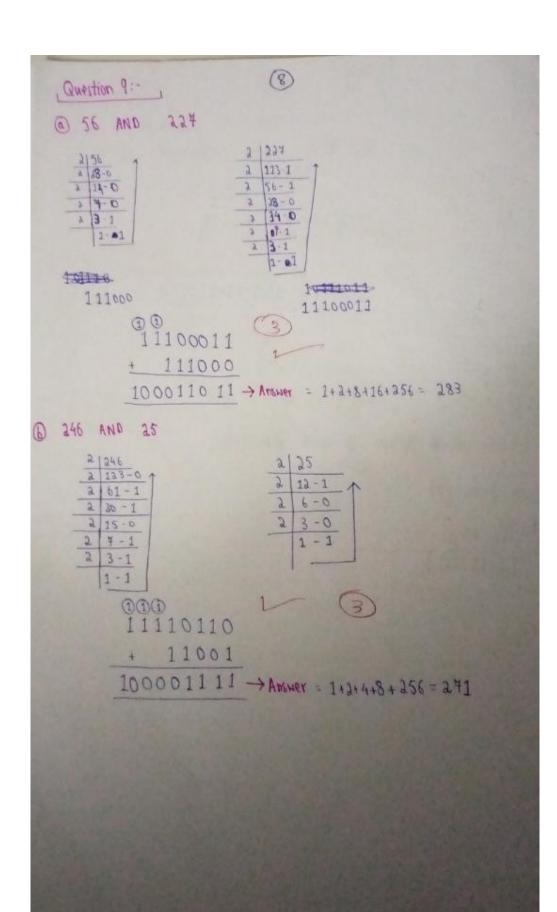
50 , 1= 4

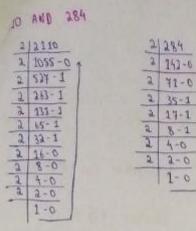


100		A Se		_M	4
W.	100	17	a	-	200
1	WO.	200	100		
9					

Decimal Number	4-8-4	8-lit Parity	Hera-Decimal
6	0000110	10000110	8 6 86
15	00 01111	10001111	1060 1111 8 15 8F
24	0011000	1 0011000	1001, 1000







100000111110 100011100 100101011010 → Anwer

(10010101010) 1 = 224+8+32-128+2+8+16+64+256

= 2394

Question 10:

- © 01100101 11101000

01100101 + (-11101000) 01100101 + (00011000) } 2's complement Taken.

01100101 First Carry is not generated District number is Negative +00011000 and in its 2's complement form

9

Now, Again Taking Associ's 2's Complement

 $10000011 = 1 \times 2^{4} + 1 \times 2^{4} + 1 \times 2^{6} = 131$

So, the Answer is -131.

 $\overline{A}(A+B)+(B+AA)(A+\overline{B})=A+B$

 $A\bar{A} + \bar{A}B + (B+A)(A+\bar{B})$

 $A\overline{A} + \overline{A}B + AB + B\overline{B} + AA + A\overline{B}$

0 + AB + AB + O + A + AB

B (A+A) + A (B+B)

B(1) + A(1) 2

B + A = A + B

A+B = A+B.

Distributive Law AND Identity X.X=X

Distributive Law (Multiplication)

Identity $X \overline{X} = 0$

Distribut Law To Take Common X+X-Z=X

Identity \$ X+X=1

Commutative Law X+Y= Y+X