Homework 1

OBJECT 1, OFFRATE			
STUDENT 1: CACOTA	001010		
51= b			
b = = 16			
x = 1116 5 0			
Y = 66231			
2:55 ECC8			
f = 7			
X(60) + Y(60) = S(60)			
(50) (60) ((51)			
111650+66231=2	10100		
0			
2(62) * P(62) = P(62)			
55 ECC3 *7=259			

Homework 1 06/10/2021 Shedeut 1: Ovidir Calota Student 2: Jaclin Jane Poulat hubject 1 5= 200101(8) p= 2597978(16) y = 66231(8) f = 7(16) 1 7 7 8 2 state point means we substract the result

(200101-66231=111650(8) here, we need 8 fecause we don't have where to substract from so it looses I unit for the other to have & from which it can substract 2594978: 4(16) = ? we calculate p in fax 10 => => 2597971(16)= 8.16+7.16+9.16+7.163+9.164+5.165+2.166= = 8 + 112 + 2304 + 28672 + 589 824 + 5242 880 + 33554432= = 120+ 30976+ 5 832 704+ 33 554 432= = 31 096 + 39 387 136 = = 39 418 232 (10) We change forses for f as well => 7(16) = 7.16 = 7(10) => 39 418 232; 7= 5 631 176(10) and now we change the result in base 16 5 631 176 16=) or 8 351 948 16=) or 12(c) 21 936 16=) or 12(c) 1 374 16=) or 14(c) 85 16=) or 5 5 16=) or 5 we read the auswer from clown to 55th 55 ECC8(16) = Z(16) being the aurus

fulject 2 b=2 h=16the chosen number is

1011 1100 1001 1000 0011, 1010 1111 0010(2) = BC 983, AF2(16) $1011=2^3+2^4+2^\circ=8+2+1=M=B$ $1001=2^3+2^2=8+4=12=C$ 1001=9 0011=3 $1001=2^3+2^2+2+1=15=F$ 1000=8 1010=10=A 0010=2

SUBJECT 2:

h=16

5=2

Y(16)=BC 383, A72

Y(2)=1011 1100 1001 1000 0011 1010 (111 0010)

SUBJECT 3

OPTION 1

x=11111

y=11222

2=17393

[x] diz = 0010 1011 0110 0111 [Y] diz = 0010 1011 1101 0110 (Z) die = 0010 1100 0100 0101 [10] im 2 = 00 10 1011 0110 0111 [7] in = 0010 1011 1101 0110 [2] inv = 0010 1100 0100 0101 [x]compl= 0010 1011 0110 0111 [Y]compl=0010 1011 1101 0110 [2]compl=0010 1100 0100 0104 -x = - 11111 -y = - 1122 c -2 = - 11 333 [-4] din = 1101 0100 1001 1001 [-Y] dia = 1101 0100 0010 1010 [-2] dia = 1101 0011 1011 1011 [-4] in = 1101 0100 1001 1000 [-4] inv = 1101 0100 0010 1001 (-23 inv = 1101 0011 1011 1010 [-v] compl=1101 0100 1001 1001 [-Y] compl=1101 0100 0010 1011 [-2] compl= 1101 0011 (011 1011

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hubject 3 [x] compl = 0010 1011 0110 0110 [y] compl = 0010 1011 1101 0110
       [7] compl = 0010 1100 0100 0101
       ExJeanpl = 1101 0100 1001 1001
       E-y]coupl = 1101 0100 0010 1011
       [-2] compl = 1101 0011 1011 1011
       [x+y] course => 0010 1011 0110 0110
       (x coupl+ (y) coupl 0101 0117 0011 1101
            0101 ONLL CON UCL = 1+4+8+16+32+256+512+102++103+
                               16384=
                              = 22333
       [x-y]coupl = [x+(-y)]coupl => [x]coupl + [-y]coupl
         -> 6010 LON 0110 6111+
            1111 1111 1001 0010
       -(2+2+2+2+2, 2+20+2+212+213+21)=
       = 12+ 16+ 128+256 + 512+1024 +2048 +4096+ 8192 + 1638 ==
      =-32658
      [2-x]compl = [2+(x)]compl =)[2]compl + [x]compl
         0010 1100 0100 0101 +
      +0000 0000 1101 MINO (22)
      => 2+4+8+16+64+128=130+80+12=222
     [-2-x]coupl => [(-2)+ (-x)] compl => [-2] coupl + [x] coupl
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 $-(2^{2}+2^{4}+2^{5}+2^{11}+2^{13})=(4+16+64+2048+8192)=10320$