Ruhul Amen

(e) (234)d

>(11101010)2

70000000011101010

> (OOEA)h

373(p) (16)9 PLES

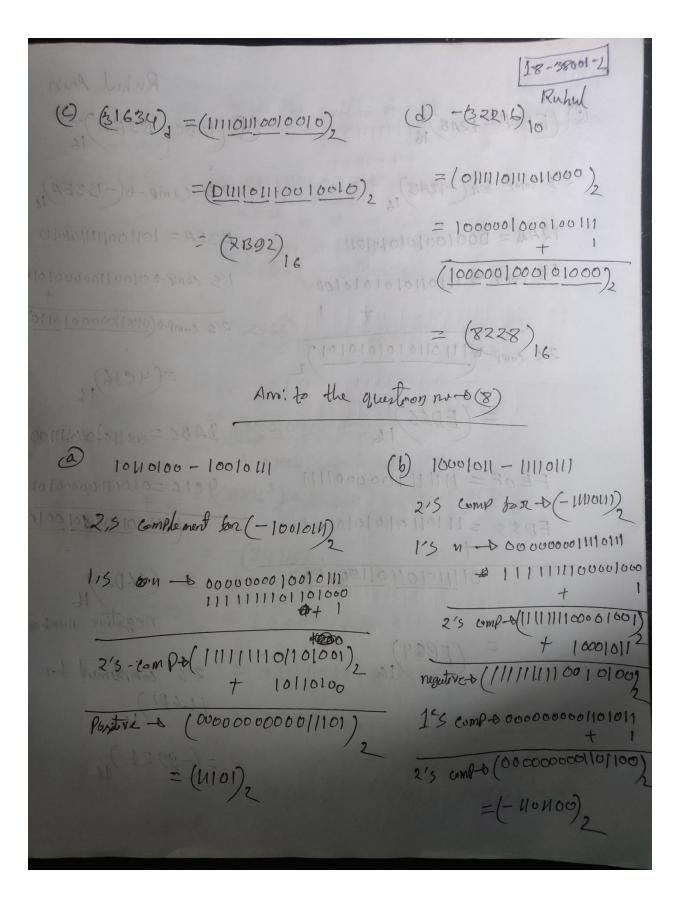
-(16) = (11111111111111) 2 (155 com)

= 111111111101111

2's (complement)

-16) = 11111111110000),

= (FFFO) h



Rubul Amin ((TEOF-12AB) 6 (1ABC-B3EA) 16 2'3 comp for (-12AB) 14 (-133EA)16 12AB = DOOLOUJUIO101011 B3EA = 1011 001111101010 13 comp-8 1110110101010100 1'S COMP-0000100000010101 2's comp-0(0100110000010110), 2's comp 0 1110110101010101)2 = (FD55)16 1ABC = 000 |10 |010 |11100 FEOF = 111111100000111) 461620100110000010110 olliolollollogio Z (FB64) 16 2/3 complement for (1011/010000000 (66D2)

= (-992E)16

Ans: to the question no + (9) Ruhul Ann

(XFFE) = alling 1111110 - 16-bet.

Lomsb is 0.50, this is unsigned mbb.

= (32766) - Unsigned

= (32766), - + signed 111

(b) $(8543)_{16} = (8\times16^3) + (5\times16^2) + (4\times16) + (3\times16^6)$

= (34115)10

(8543)₁₆ = 10000101000011

= 011110101010111100 -> 1's complement

- 011110 010111101 - 02's emplement = (ex2'5) + (1x2'4) + (1x2'3) + (1x2) + (1x2) + (0x2') + (1x2) + (0x2) (1x2x)+(ex2)+(x25)+(1x24)+(1x23)+(x2)+(0x2)+(1x2) = (-31421)10

(FE) = 11111110 0 0- (A)ESE = 00000001 -01's complement 00008010 - \$ 2,5 complement

SIXE = (-5) + (21×5) + (21×8) = (2458)

 $(3F)_{16} = (01111111)_2$

= (2×16')+(15×16') $(22)_{10} \rightarrow cunsigned$ $(32)_{10} \rightarrow signed$

Ans: to the question no tolo Ruhul Amir

((120) 0 = (000000000 01111000) => 16- hats = (0111000) 2 -s 8 - bets

(-120) = 10000111 → 1'S comp.

10001000 =0 2/3 comp. Jan 8-4its

(-120) = (1111111 10000111) - + 255 comp. for 16-bots

(111)111110001000), -0 2,5 comp.

41.8 y a (Eng (4: x) ap (x)

(9) (-128). = (000000000000000) - he wit

Am: to the question no o(1)

(32767) = (11111111111111) = Ser 16-buts = (x: bobig) -> for 8-but

(b) (-40000) 10 = (x: too big) + D ton 16-bit

= (x: too big) - to for 8-bit

(c) (65336) = [x: foo big) +0 for 16-bit
= [x: too big) -0 for 18-bit

18-38001-2]

Ans: to the question no (X12)

it msb=0 then it is possitive

- a) 1010010010010100 Lo msb=1 - a negative
- b) (78E3), = (0111100011010011) Lomsp=0 - & Paritive
- c) (BB3) = (1100101100110011) 2 10 msh = 1 -0 negative
- d) (807F)₁₆ = (10000000001111111)₂ Lomsh = 1 - > negatives
- e) (2Aey) 16 = (1001) 01011000100) 2 L>msb=1 -0 negetive