

9A31103

Decimal Binary octal Hexa -1

1- 157/428 10010011.101 222.8 93.A

2- 121 01111001 171 79

3- 220.148 11100110.11 2E4.V E4.E

4- 220.148 11111100.1101 2E4.V 7F3B

5- 220.148 100100.1011 112.89 EA.BA

a) $(01001111)_2 = (79)_{10} = (1E5)_V \quad \underline{b=V}$ -1

$$\begin{array}{r} 79 \quad \begin{array}{l} x \\ a \quad x \\ E \quad x \\ 0 \end{array} \quad \begin{array}{l} y \\ E \\ 1 \end{array} \end{array}$$

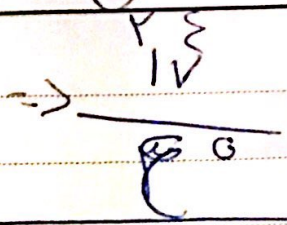
$K=1 \rightarrow bx + E = a \rightarrow ax + y = 79$

PAPCO

$\Rightarrow x^2 + Ex - 79 = 0 \rightarrow (x - V)(x + 11) = 0$
 $x = V$

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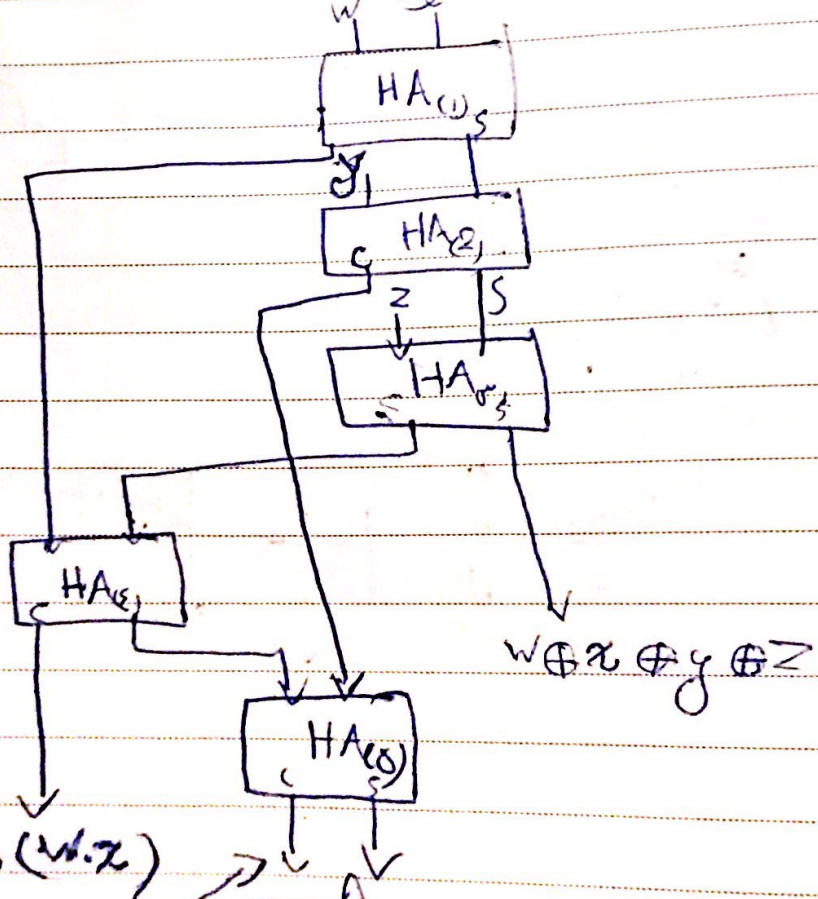
b)



$$\Rightarrow b=11$$

$$S_i = w_i \oplus x_i$$

$$C_i = w_i \cdot x_i$$



$$((w \oplus x \oplus y) \cdot z) \cdot (w \cdot x)$$

$$C = w \cdot x, S = w \oplus x \quad : HA(w, x)$$

$$S = w \oplus x \oplus y, C = (w \oplus x) \cdot y \quad : HA(y, S)$$

$$S = w \oplus x \oplus y \oplus z, C = (w \oplus x \oplus y) \cdot z \quad : HA(z, S)$$

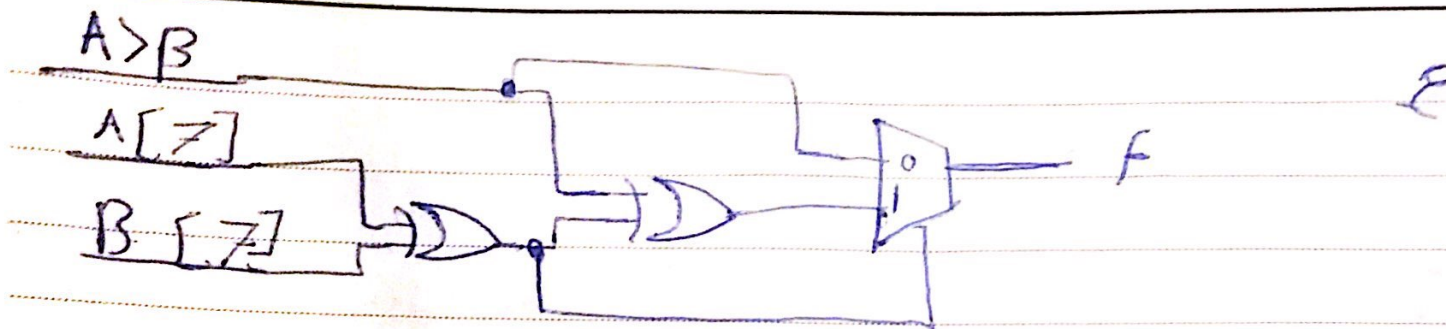
$$S = ((w \oplus x \oplus y) \cdot z) \oplus (w \cdot x), C = ((w \oplus x \oplus y) \cdot z) \cdot (w \cdot x) \quad : HA(C, S)$$

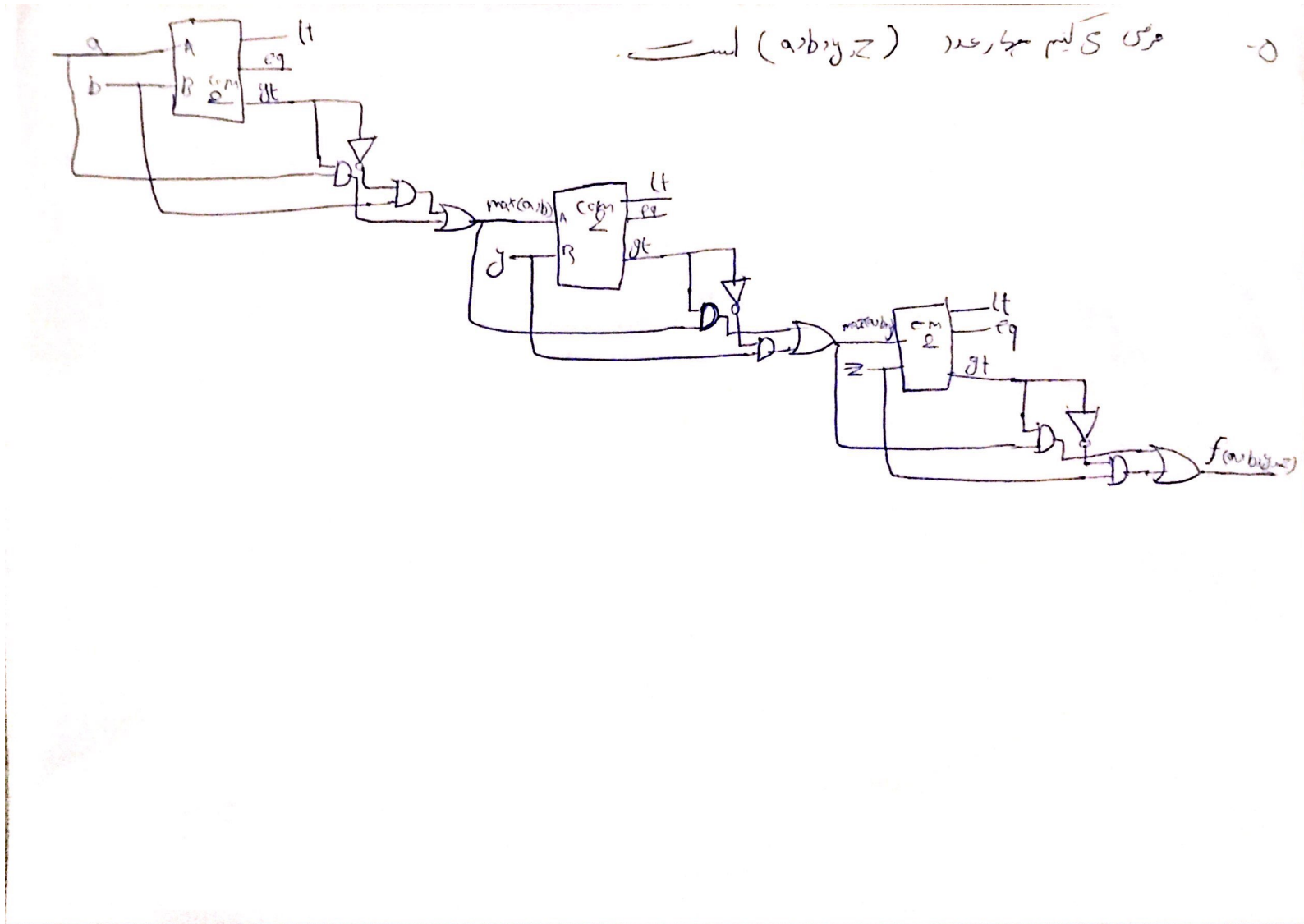
$$S = ((w \oplus x) \cdot y) \oplus ((w \oplus x \oplus y) \cdot z) \oplus (w \cdot x), C = ((w \oplus x) \cdot y) \cdot ((w \oplus x \oplus y) \cdot z) \oplus (w \cdot x) \quad : HA(S, C)$$

P4PCO

$$C = ((w \oplus x) \cdot y) \cdot (((w \oplus x \oplus y) \cdot z) \oplus (w \cdot x))$$

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$$f(a, b, c, d, e) = abcde + abcd\bar{e} + abcd\bar{e} + abcd\bar{e} + \bar{a}bcde$$

$$+ \bar{a}bcde + abcd\bar{e} + abc\bar{d}\bar{e} + abcd\bar{e} + \bar{a}bcd\bar{e} + abcd\bar{e}$$

$$+ \bar{a}bcd\bar{e} + \bar{a}bcd\bar{e} + \bar{a}bcd\bar{e} + \bar{a}bcd\bar{e} + \bar{a}bcd\bar{e}$$

$$= \sum m(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31)$$

$$= \sum m(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31)$$

مجموع

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Scanned with CamScanner

	V	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX
P_{I_1}	X																			
P_{I_2}		X																		
P_{I_3}			X																	
P_{I_4}				X																
P_{I_5}					X															
P_{I_6}						X														
P_{I_7}							X													
P_{I_8}								X												
P_{I_9}									X											
$P_{I_{10}}$										X										
$P_{I_{11}}$											X									
$P_{I_{12}}$												X								
$P_{I_{13}}$													X							
$P_{I_{14}}$														X						
$P_{I_{15}}$															X					
$P_{I_{16}}$																X				
$P_{I_{17}}$																	X			
$P_{I_{18}}$																		X		
$P_{I_{19}}$																			X	
$P_{I_{20}}$																				X

$$f(a,b,c,d,e) = cde + bde + bce + bcd + \cancel{ade} + ace + acd + abe + abd + abc$$

Ans.