

Year. Month. Date. ()

تاریخ: ۹۹۴۴۳۱۲۱

④ $\text{jer}) \quad 19 + 11$

$$(r9)_{10} = (011101)_2 \quad (r1)_{10} = (010101)_2$$

$$\begin{array}{r} 11101 \\ 011101 \\ 010101 \end{array} +$$

110010

+4

- slu over flow

-1

$\xrightarrow{2's\text{comp}}$

100011

+2

→ 2's comp

101011

+2

$$(-A) + (-B)$$

$$\begin{array}{r} 1^0 \quad 1^1 \\ 100011 \\ 101011^+ \\ \hline 001110 \end{array}$$

+1

2.4 overflow

+4

ب) Gray : 11001001
 11111111

Binary : 10001110

7.) Binary: 11001001
11100100

Gray : 10101101

xor

 \oplus

+4

-2 because there is no solution

7)

1	1	1	1	1	0	0	0	1	0	0	1
p_1	p_2		p_4				p_8				

$$P_1 = 3 \oplus 5 \oplus 7 \oplus 9 \oplus 11 : (1)$$

$$\rho_2 = 3 \oplus 6 \oplus 7 \oplus 10 \oplus 11 : (1)$$

$$P_4 = 5 \oplus 6 \oplus 7 \oplus 14 : \textcircled{1}$$

$$p_8 = 9 \oplus 10 \oplus 11 \oplus 12 : \textcircled{0}$$

SEM 4N

+6

Subject :

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$$\rightarrow (473406.12234)_8 = (?)_{16}$$

$$(00100 \ 111011 \ 100000 \ 110, \ 001010 \ 010011100)_2$$

$$= (27706, 2938)_{16}$$

+7

9)

1	2	3	4	5	6	7	8	9	10	11	12
1	1	0	1	1	1	1	0	1	1	1	1
P_1	P_2		P_4				P_8				

$$P_1: 1, 3, 5, 7, 9, 11 \rightarrow 1$$

$$P_2: 2, 3, 6, 7, 10, 11 \rightarrow 1$$

$$P_4: 4, 5, 6, 7, 11 \rightarrow 1$$

$$P_8: 8, 9, 10, 11, 12 \rightarrow 0$$

0111

↓

7

بیت خالی 7 غایب

است

$$110111001111 \rightarrow \text{دارد اصفی}$$

-8