Name: _____

Number:



Questions

- 1. Write down the binary representations of following numbers:
 - $(15)_{10} = (54)_{10} =$
 - $(34)_{10} =$
 - $(43)_{10} =$ $(86)_{10} =$

Solution: $(15)_{10} = (1111)_2$, $(54)_{10} = (110110)_2$, $(43)_{10} = (101011)_2$, $(86)_{10} = (1010110)_2$,

2. Write down the hexadecimal representations of following numbers:

- $(15)_{10} = (54)_{10} =$
- $(43)_{10} =$
- $(86)_{10} =$

Solution: $(15)_{10} = (F)_{16}, (54)_{10} = (36)_{16}, (43)_{10} = (2B)_{16}, (86)_{10} = (56)_{16},$

3. Calculate following questions in decimal base

 $\begin{array}{l} 25 \lor 13 = \\ 41 \land 7 = \\ 3 \oplus 17 = \end{array}$

Solution: $25 \lor 13 = 29, \ 41 \land 7 = 1, \ 3 \oplus 17 = 18$

4. Fill the following tables

\wedge	0	1	\vee	0	1	\oplus	0	1
0			0			0		
1			1			1		

	\wedge	0	1	\vee	0	1	\oplus	0	1
Solution:	0	0	0	0	0	1	0	0	1
	1	0	1	1	1	1	1	1	0