# Bài 7

+) $1010_{(2)} = 1 \cdot 2^1 + 1 \cdot 2^3 = 10_{(10)}$

$10_{(10)} = A_{(16)}$

$\longrightarrow 1010_{(2)} = A_{(16)}$

+) $1101_{(2)} = 1 \cdot 2^0 + 1 \cdot 2^2 + 1 \cdot 2^3 = 13_{(10)}$

$13_{(10)} = D_{(16)}$

$\longrightarrow 1101_{(2)} = D_{(16)}$

+) $100111_{(2)} = 1 \cdot 2^0 + 1 \cdot 2^1 + 1 \cdot 2^2 + 1 \cdot 2^5$

$= 39_{(10)}$

$$
\begin{array}{c|c}
39 & 16 \\
\hline
7 & 2 \\
\end{array}
\begin{array}{|c}
16 \\
\hline
0 \\
\end{array}
\qquad
\begin{array}{c|c}
2 & 16 \\
\hline
2 & 0 \\
\end{array}
$$

$\longrightarrow 39_{(10)} = 27_{(16)}$

$\longrightarrow 100111_{(2)} = 27_{(16)}$

+) $111000_{(2)} = 2^3 + 2^4 + 2^5$

$= 56_{(10)}$

$$
\begin{array}{c|c}
56 & 16 \\
\hline
8 & 3 \\
\end{array}
\begin{array}{|c}
16 \\
\hline
0 \\
\end{array}
\qquad
\begin{array}{c|c}
3 & 16 \\
\hline
3 & 0 \\
\end{array}
$$

$\longrightarrow 56_{(10)} = 38_{(16)}$

$\longrightarrow 111000_{(2)} = 38_{(16)}$