

$$AB_{(16)} = 10^1 \cdot 16 + 11 \cdot 16^0 = 171_{(10)}$$

$$\begin{array}{r}
 171_{(10)} \quad | \quad 2 \\
 \hline
 120 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 85 \quad | \quad 2 \\
 \hline
 84 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 42 \quad | \quad 2 \\
 \hline
 42 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 21 \quad | \quad 2 \\
 \hline
 20 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 10 \quad | \quad 2 \\
 \hline
 10 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 5 \quad | \quad 2 \\
 \hline
 4 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 2 \quad | \quad 2 \\
 \hline
 2 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 1 \quad | \quad 2 \\
 \hline
 1 \\
 \hline
 0
 \end{array}$$

$$\text{ответ } \bar{m} = 10101011_{(2)}$$