

a) Paridad impar

$$T(x) = 110011011101101$$

b) CRC

$$10011011101101 = x^{13} + x^{10} + x^9 + x^7 + x^6 + x^5 + x^3 + x^2 + 1$$

$$G(x) = 110011$$

$$\begin{array}{r}
 110011 \overline{) 1001101110110100000} \\
 \underline{110011} \phantom{000000000000} \\
 01010111 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 0110001 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 0000101011 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 0110000 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 0000111000 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 00101100 \phantom{000000000000} \\
 \underline{110011} \phantom{000000000000} \\
 011111 \text{ resto}
 \end{array}$$

$$T(x) = 100110111011011111$$