

1. The information bit sequence $\{1\ 1\ 1\ 0\ 1\ 0\ 1\ 0\ 1\}$ is to be transmitted by encoding with Cyclic redundancy Check 4(CRC-4) code, for which the generator polynomial is $C(x) = x^4 + x + 1$. The encoded sequence of bits is_____.

- (A) $\{1\ 1\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 0\ 0\}$
(B) $\{1\ 1\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 0\ 1\}$
(C) $\{1\ 1\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 1\ 0\}$
(D) $\{1\ 1\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 0\ 1\ 0\ 0\}$