

### GATE

1. The information bit sequence  $\{111010101\}$  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)  $\{1110101011100\}$
- (B)  $\{1110101011101\}$
- (C)  $\{1110101011110\}$
- (D)  $\{1110101010100\}$

Ans:A