**A bit stream 1101011011 is transmitted using the standard CRC method. The polynomial generator is x2 + x + 1. What is the actual bit string transmitted? Show the major steps to your answer.**

The generator polynomial may be X2 + X + 1 => Encoded as 111 (consists of 3 bits)

So the string of 2 zeros is appended to the bit stream: 110101101100

Calculate the CRC at sender:

1 0 1 0 1 0 0 0 1 0

1 1 1 1 1 0 1 0 1 1 0 1 1 0 0

1 1 1

0 0 1 1

0 0 0

0 1 1 0

1 1 1

0 0 1 1

0 0 0

0 1 1 1

1 1 1

0 0 0 0

0 0 0

0 0 0 1

0 0 0

0 0 1 1

0 0 0

0 1 1 0

1 1 1

0 0 1 0

0 0 0

0 1 0 -> CRC = 10

Hence, the actual transmitted message is: 1101010110010