CRC Questions

1. Compute the CRC for the message 1110001 using the polynomial 1001.

2. A sender uses the generator polynomial 111 to encode the message 1001101. Find the CRC and the transmitted code.

3. If the message is 101001 and the polynomial is 11011, determine the CRC and check if the received message 1010011001 is error-free.

Hamming Code Questions:

1. Generate the Hamming code for the data bits 1011 using even parity.

2. A 7-bit Hamming code 1011101 is received. Detect and correct any errors.

3. Construct the Hamming code for the data 11001 using odd parity.