Define a Hamming Code and show how it can correct a single error. [3+3 marks]

Show how, by using an extra parity bit, it can detect a double error. [3 marks]

Give an example of a convolutional code. [5 marks]

Given a BCH code (1023, 983), which errors can it correct? [2 marks]

Give an example where a run length code is better than a Huffman Code. [4 marks]