- 1. The encoder structure of a convolutional code is shown in the following figure.
 - (a) What are the values for (n, k, K)?
 - (b) How many states does this convolutional code have?
 - (c) Write the input-output table representation of the convolutional code.
 - (d) Draw the state transition diagram of the convolutional code.
 - (e) Draw the trellis transition diagram of the convolutional code.
 - (f) If the received codeword at receiver is 1 1 0 1 1 0. Use Viterbi algorithm finding out the original information bits.

