Exercise 1: How many flip-flops would be required to generate a ML PRBS of period 16383? How many ones would the sequence have?

$$16383 = 2$$

\$ FFs is 14.

$$2^{10} = \frac{1024}{2}$$

$$2^{4} = \frac{16}{2}$$

$$2^{14} = \frac{16 \times 1024}{2}$$

Exercise 2: Why not?

does not provide secrecy because anyone with a disnauth can recover the data

Exercise 3: How many errors will appear in the output of a V.22 descrambler if there is one input error?