

Assignment 2

(Due: November 17, 2014 – Please hand it to your TA during the lab session)

Exercise 1:

Solve the following from the end-of-chapter-5 problems of the textbook (Mano and Ciletti):

5.7.

5.17. Hints: Use the simplest possible Mealy Machine. Based on the technique discussed in lecture for 2's complement

5.30.

Note: All the problems of the chapter can be solved for practice, but are not to be submitted.

Exercise 2:

Solve the following from the end-of-chapter-6 problems of the textbook (Mano and Ciletti):

6.22. (b) Note: The problem has a typo. "The count evolves through a sequence of ~~12~~ **10** distinct states"

6.26. Hints: Treat this as a design problem for a Moore circuit whose output is the required clock. Use T flip flops and (if necessary) logic gates.

Note: All the problems of the chapter can be solved for practice, but are not to be submitted.