## CSc 137 - Exam #2

## Name: March Merclo Ea

- 2. Are the following statements True or false? (40 pts)
  - (a) The output of a Moore state machine changes synchronously. (Circle the correct answer

below)
True or False?

(b) A NAND gate is the same as a NOR gate with its inputs complemented. (Circle the

correct answer below)
True or False ?

3. Design a Moore sequence recognizer that detects the overlapping sequence "101". Use binary encoded state labels and design and draw the circuit schematic. (i.e. FSD, Next state generator Table (shows transition from current state to next state), Output Generator Table and schematic circuit. Please use output label as Y and input label as A. Your inputs to D flip-flops will be D0 and D1, respectively. (40 pts)



