UNCC, Department of Electrical and Computer Engineering ECGR 2181, Fall 2008, Quiz #11, 11/25/2008

Name: _____

Follow the five steps of designing a Controller:

- 1. Create FSM
- 2. Create the architecture
- 3. Encode the states
- 4. Create the state table
- 5. Implement the combinational logic

Create a controller with one input, z, and two outputs, a and b. ab should always follow the following sequence when z = 0: 00, 01, 10, 11, repeat. ab should go to the previous value (i.e. 01 to 00) when z=1. The output should only change on a rising clock edge. Make 00 the initial state.