Quiz 5 – EECS 270, Spring '04

Name: ____________________________________ unique name: ____________________

Honor code:
I have not given or received aid on this quiz, nor have I observed anyone else doing so:

Sign here:_____________________________________

This quiz is graded out of 30 points and is worth about 4% of your class grade. You will have 25 minutes for this quiz. Closed everything including calculators! To receive partial credit, work must be shown.

1. Matching, Write the correct letter in the blank. [9, -2 per wrong or blank answer, min=0]
   A= Static
   B= Dynamic
   C= Volatile
   D= Non-Volatile
   E= Encoder
   F= Decoder
   G= MUX
   H= One transistor and a capacitor
   I= two to four transistors
   J= four to eight transistors
   K= More than eight transistors
   • Memory that doesn’t lose its state, even when power is lost, is called ______ memory.
   • Memory that needs to be refreshed in order to keep its state (even when power is continually applied) is called ______ memory.
   • A single SRAM cell (which stores a single bit of information) typically consists of ____.
   • A single DRAM cell (which stores a single bit of information) typically consists of ____.
   • A single D flip-flop (which stores a single bit of information) typically consists of ____.
   • When selecting a row in a memory, part of the address is put into a ____.
2. Consider the following state machine: [21]

a. Is the above a Mealy or a Moore machine? Briefly explain [3]

b. Draw the state transition diagram that corresponds to the above state machine. [18]