

## CS 430 Problem Set 2

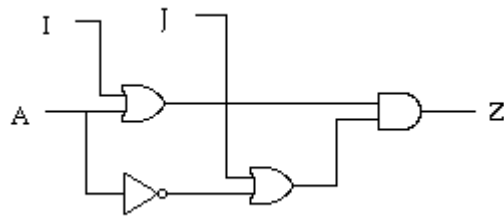
**Date assigned:** Friday, September 12, 2008

**Date due:** Wednesday, September 17, 2008

**Points:** 40

1. (10 pts) The circuit below is to be used to implement the function  $Z = f(A,B) = A' + B$ . Inputs I and J can be selected from the set  $\{0,1,B,B'\}$ . What values should be chosen for I and J? If you chose one of the responses (a) through (e) below, then show in detail how you arrived at your answer.

- (a)  $I=0, J=B$
- (b)  $I=B, J=1$
- (c)  $I=B', J=0$
- (d)  $I=1, J=B$
- (e)  $I=1, J=B'$
- (f) none of these are correct



2. (10 pts) problem. 2.1 on p. 50

3. (10 pts) problem. 3.1 on p.95

4. (10 pts) problem 3.3 on p. 95

Submit the solution to these questions as a Google document. Remember to share your document with me at [ShereenKhoja@gmail.com](mailto:ShereenKhoja@gmail.com).