

IS2150/TEL2810 Introduction to Security

Homework 5

Total Points: 50

Due Date: **October 12, 2007**

1. Exercises from Chapter 5: Do 4, 5, 6 **(Points 8 x 3)**
2. Exercises from Chapter 6: Do 1, 3 **(Points 8 x 2)**
3. Assume that Alice and Bob are friends. Consider two conflict of class sets $COI_1 = \{X, Y\}$ and $COI_2 = \{U, V\}$. Let CD_X , CD_Y , CD_U , and CD_V be the company data sets of companies X, Y, U and V. **(Points 10)**

Show all the possible assignments that are allowed and prohibited by the Chinese wall policy - consider read only assignments as well as read and write.

(Addendum)

Consider the following scenarios;

1. Only read accesses need to be provided to CDs
2. Both read and write accesses need to be provided together to any CD.
3. Both read/write required for CD_X , and CD_V , and read-only to remaining CDs.

Note that Alice and Bob may not be able to cover all the CDs – for that you can assume there are others who can take on the assignment. You need to only consider Alice and Bob.