

CPEN 442, Fall 2015

Quiz #5

Your Family name: _____
Your Given name: _____
Your student ID: _____
Your CPEN 442 alias: _____

#	Points	Out of
1		8
2		4
3		4
4		5
5		3
6		2
7		6
TOTAL		32

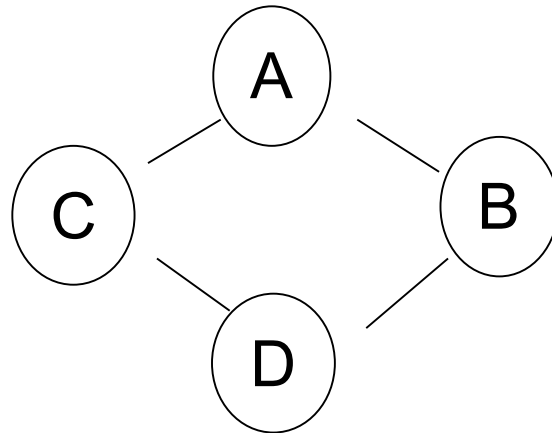
Notes:

- Make sure your handwriting is legible. If the teaching staff does not understand what you wrote, they mark your answer as if the unreadable text is missing.
- Aim to be precise and to the point. The experience of teaching this course since 2004 suggests that excessively long answers tend to correlate with lower marks.
- As in real world, stated questions and/or accompanied descriptions in this quiz are often open-ended and one has to make assumptions in order to answer them. If you do make assumptions, state them clearly and explicitly.
- Don't panic if you feel like you are severely short on time. Everybody is. ☺

- 1. (8 points) Explain what Subject, Object, PEP and PDP terms mean in Access Control (4 points out of 8), and how they interact with each other (other 4 points).**

2. (4 points) Compare ACLs and Capabilities (pros vs. cons)

3. (4 points) For the following BLP lattice



Fill out the pseudo-access matrix (follow the example for B x B):

		Objects			
		A	B	C	D
Subjects	A				
	B				
	C				
	D				

4. (5 points) What are the critical components of projects related to IT security?

5. (3 points) Describe three main elements of responding to a security incident. Explain each element.

**6. (2 points) Which are more relevant threats for UBC IT assets, opportunistic or targeted?
(b) Give examples of both types of threats that UBC faces.**

7. (6 points) Economic and organizational aspects of security

a) List the factors, forces, and phenomena from the field of economics that influence security of products and technologies on the market.

b) Why do big companies spend too much on security while small companies too little?