

Kennesaw State University
College of Computing and Software Engineering
IT 4823 Information Security Administration

Your Name: _____

IT 4823 – BROWN
Sample Examination
September, 2015

This is not a study guide! You probably want to try to answer the questions on material we have covered, but you will not turn this in, and it has no effect on your grade. The purpose of this sample examination is to give you an idea of the *kinds* of questions likely to appear on a real exam in one of my classes. *There may be questions here on material we haven't covered yet.* The real exam will, of course, be longer.

1. Name the three facets of information security. These are attributes of information that together describe a secure system. (*Hint: three-letter acronym.*)
2. Name *and briefly describe* the three goals of information security. (*This is **not** the same as question 1.*)
3. Describe what must happen with respect to public keys for a “man-in-the-middle attack” to succeed when messages are encrypted using public key cryptography.
4. Briefly explain the role of policy in information security.
5. What are the three “factors” that can be used in authentication?
6. What is one *security* benefit of using reserved addresses and network address translation (NAT) on an internal network? (“Conserving addresses” is not the answer!)
7. Describe or give an example of **inferential leakage** in database or query security.
8. Signature-based virus detection programs have a major shortcoming. What is it?
9. Distinguish between a **vulnerability** and an **exploit**.
10. What is an **access control list**? Be very specific.