**Name:** _____       **Student ID #:** _____

# Quiz #4 Solutions
COMP 3000B: Operating Systems
March 29, 2007

1. Which of the following "communication links" could be used to exchange IP packets?

   (a) Ethernet
   (b) Smoke signals
   (c) Carrier pigeon
   (d) **All of the above**

2. TCP/IP stacks use extensive buffers to store incoming packets. They do so because:

   (a) TCP packets may be received out of order
   (b) Applications may not be ready to handle new input
   (c) The OS may receive a packet when it cannot easily hand it over to an application
   (d) **All of the above**

3. A firewall can potentially

   (a) block certain kinds of IP packets
   (b) modify IP packets
   (c) transmit packets containing error messages
   (d) **all of the above**

4. The close file operation can sometimes fail in which of the following filesystems?

   (a) NFS
   (b) ext3
   (c) proc
   (d) **AFS (Andrew File System)**

5. Which is more dangerous for a network filesystem:

   (a) synchronous reads (no caching)

   (b) synchronous writes (no caching)

   (c) read caching

   (d) **write caching**

6. Digital certificates (e.g. the certificates used to identify websites for e-commerce) contain:

   (a) **Public keys**

   (b) Private keys

   (c) Symmetric keys

   (d) All of the above

7. In order to iterate through the list of processes inside the 2.6 Linux kernel, you should use the function: **for_each_process() or find_ge_pid()**

8. What was your favorite lab exercise (in all of the labs)? **All of them! :-)**