Ceng 328 - Quiz 3

Solve all multiple choice questions.

For Tuesday section

- 1. (1.75 pts) Pthreads refers to _____
 - A) the POSIX standard.
 - B) an implementation for thread behavior.
 - C) a specification for thread behavior.
 - D) an API for process creation and synchronization.
- 2. (1.75 pts) Cancellation points are associated with _____ cancellation.
 - A) asynchronous
 - B) deferred
 - C) synchronous
 - D) non-deferred
- 3. (1.75 pts) Which of the following would be an acceptable signal handling scheme for a multithreaded program?
 - A) Deliver the signal to the thread to which the signal applies.
 - B) Deliver the signal to every thread in the process.
 - C) Deliver the signal to only certain threads in the process.
 - D) All of the above
- 4. (1.75 pts) A _____ provides an API for creating and managing threads.
 - A) set of system calls
 - B) multicore system
 - C) thread library
 - D) multithreading model

Choose only one question.

- 5. (8 pts) Why should a web server not run as a single-threaded process?
- 6. (8 pts) List the four major categories of the benefits of multithreaded programming. Briefly explain each.

Solve all multiple choice questions.

For Friday section

- 1. (1.75 pts) The _____ multithreading model multiplexes many user-level threads to a smaller or equal number of kernel threads.
 - A) many-to-one model
 - B) one-to-one model
 - C) many-to-many model
 - D) many-to-some model
- 2. (1.75 pts) Thread-specific data is data that _____
 - A) is not associated with any process
 - B) has been modified by the thread, but not yet updated to the parent process
 - C) is generated by the thread independent of the thread's process
 - D) is copied and not shared with the parent process
- 3. (1.75 pts) Windows XP (or Linux) uses the _____
 - A) one-to-one model
 - B) many-to-one model
 - C) one-to many-model
 - D) many-to-many model
- 4. (1.75 pts) A _____ provides an API for creating and managing threads.
 - A) set of system calls
 - B) multicore system
 - C) thread library
 - D) multithreading model

Choose only one question.

- 5. (8 pts) Some UNIX systems have two versions of fork(). Describe the function of each version, as well as how to decide which version to use.
- 6. (8 pts) Describe the difference between the *fork()* and *clone()* Linux system calls.