

Quiz 6 CISC 370
08/01/2006

Name: _____

1. (5 pts) Java allows multithreading, so that applications can maximize _____(a phrase). When writing concurrent programs, programmers may need to synchronize access to shared data in their programs. Java provides the synchronization mechanism—with the keyword _____(b). When you call the `start()` method on a thread, its _____(c) method starts to execute. If you call a method on a thread when the thread is not in the appropriate state, a(n) _____(d) is thrown.

2. (6 pts) What are the three primary ways to use threads in your Java programs? When would you use each of these three techniques?

3. (6 pts) A URL has three many components: the _____(a), which says *how* to get it, the _____(b), which says *what* to get, and the location, which says *where* to get it. The location has two parts the _____(c) and an optional _____(d), which is the “mailbox” through which the client/server communicate. _____(d)s less than 1024 are assigned to certain services and are known as _____(e) _____(d)s. To make the programmer’s life easier, Java provides the _____(e) class to handle proper encoding of the parameters (name/value pairs) traveling with URLs.
4. (3 pts) What are the two main types of services provided over networks? What is the typical protocol associated with each service?
5. **Extra Credit** (2 pts) What is the difference between concurrent and parallel programming?