CS-3160 Multiple Choice Questions

- #6 A common way to mitigate the disadvantages associated with multiple inheritance is to use
 - (a) interfaces.
 - (b) overridden subprogram.
 - (c) diamond inheritance.
 - (d) graphic inheritance.
 - (e) parametric polymorphism.
- #7 The motivation for allowing static binding of class subprogram calls is to improve
 - (a) security.
 - (b) performance.
 - (c) reliability.
 - (d) maintainability.
 - (e) writability.
- Which levels of concurrency pose challenges and issues for programming language design?
 - (a) program and subprogram
 - (b) instruction and unit
 - (c) instruction and statement
 - (d) instruction and program
 - (e) statement and subprogram
- #9 What distinguishes a heavyweight task from a lightweight task?
 - (a) Heavyweight tasks run in their own address space while lightweight tasks do not.
 - (b) Heavyweight tasks account for more than half of processor execution time whle lightweight tasks do not.
 - (c) Heavyweight tasks require memory access while lightweight tasks only use processor registers.
 - (d) Heavyweight tasks are active throughout program execution while lightweight tasks are only active when needed.
 - (e) Heavyweight tasks are callable from anywhere in the program while lightweight tasks must be called from object instances.
- #10 The two types of synchronization that are required when tasks that share resources are
 - (a) one-way and multi-way.
 - (b) cooperation and competition.
 - (c) synchronous and asynchronous.
 - (d) joint and disjoint.
 - (e) cooperation and asynchronous.