Professor Hakner PSET #6

## Problem 1

- a) No, it is not valid. User-level code should not be able to disable interrupts.
- b) No, it is not valid. The reasoning is the same as Part A.
- c) No, it is not valid. The reasoning is the same as Part A. In addition, on a multiprocessor system, "disabling interrupts only affects the local processor."
- d) Yes, it is valid. Kernel level code can successfully disable hardware interrupts. Since this is a single processor system, masking interrupts on entry to the critical region is effective as no other threads of control will run during this time.
- e) No, it is not valid. The reasoning is similar to Part C, because there are other processes that can be running simultaneously, and "disabling interrupts only affects the local processor."