Midterm Exam CPSC 457

* 17MC
* Short Answer
  + Limit to a few words
* 4 Long Answers
* Reference:
  + List of pthread fns

MC:

* Kernel vs User
* Microkernel
* 1:1 thread
* CPU pipeline
* PCB (Process Control Block)
* Which of the following shared by all threads?
* Which of the following system calls ..?
* What is part of the kernel (which o
* What does this particular pthread do
* Atomic op
* Another pthread fn
* Semaphore
* Mutex
* RQ
* Gen Synch Prim
* System Call
* Signal Q
* Cond. Var

Short answer:

* Signal Handler  
  Kernel Mode and User Mode  
  Binary Semaphore  
  Boot up   
  VM  
  PCB  
  Process States (Running, blocked and wait)  
  Context Switch
* Race Cond.
* Mutual Exclusion  
  2 Bash Commands
* What does the following piece of code with fork will do?
* CPU util.

Long answers

* How many diff. outputs are possible by running this process and what are they? (ans is not inf)
* When you run this program multiple times, most of the time the output will be this, but this time it is: ? What is it called?
* Spot the obv problem and fix it (something to do with crit section)