

Winter 2009  
**COSC 3P92 Assignment 2**  
B. Ross

Due date: 12:00 noon, Tuesday March 17.  
Late date: 12:00 noon, Friday March 20 (-25%)

Instructions: Show ALL your work. Discuss your answers in adequate detail. Correct answers without supporting work will get partial marks only. Incorrect answers without supporting work will receive zero. Use an editor/word processor for all written answers!

Chapter 3: 23, 27, 29, 31, 32, 35, 36

Chapter 5: 2, 3, 5, 6, 7

Comments:

For ch.3, q.32, think of 2 different schemes, and describe the advantages and/or disadvantages of each.

A nanosecond is one billionth of a second, or 0.000000001 sec, or  $10^{-9}$ second.  
100 MHz = 100,000,000 cycles/second.

Then 1 cycle will be  $1 / (100,000,000 \text{ cycles/sec}) = 0.00000001 \text{ second} (=10^{-8}\text{sec}) = 10 \text{ nanoseconds.}$