CSCI 4/5/8145 Parallel Programming Final Exam Thursday May 4th, 2000, 7:00 pm - 11:00 pm

THREE pages.

Attempt all questions in the spaces provided. Use additional paper if necessary. You may refer to the materials provided with this test.		Name:	
Qu. 1	Answer each of the following briefly:		Mark/30
(a)	What is a detached thread?		2
(b)	What is meant by the term thread-safe?		2
(0)	what is meant by the term thread sure.		-
(a)	What is the difference (if any) between a binor	y comenhers and a chin look?	2
(c)	What is the difference (if any) between a binary	semaphore and a spin lock?	2
(d)	What computational method is better suited for	sparse matrices than for dense matrices?	2

(e)	What is meant by the phrase systolic array?	2
(f)	What is the purpose of Gaussian elimination?	2
(g)	What is a bitonic sequence?	2
(5)	What is a bitome sequence.	_
(h)	What is the purpose of the Hough Transform?	2

Qu 2 Write a shared memory parallel program in Adsmith to sort a list of *n* integers using odd-even transposition sort (the parallel variation of bubble sort). An Adsmith program is attached giving sample uses of Adsmith routines. Give a clear explanation of your program.