	Name:	
CS 33211	Final Exam	os

Thursday 13 December 2007

1. Why is linking multiple object files together into a single executable object file difficult? (10 points)

2. Distinguish between "logical memory" and "physical memory". (5 points)

3. What is the function of the Memory Management Unit (MMU)? (5 points)

- 4. Consider dynamic variable-sized partitioning versus segmentation.
 - a. In what way(s) are these techniques similar? (10 points)

b. In what way(s) are these techniques different? (10 points)

5. An important component of demand paging is a good page replacement policy. How difficult is it to implement Least Recently Used (LRU) replacement? Explain. (10 points)

6. How does an OS such as Windows know what is stored in a file? (10 points)

7. What is the relationship between a directory and the file description representing that directory? (10 points)

8. Describe the C-SCAN disk head scheduling algorithm, using a diagram if necessary. Be certain to describe it clearly enough to distinguish it from other disk head scheduling algorithms. (10 points)

9.	There are many	techniques for	r organizing the	e disk blocks that	comprise a file

a. What advantage(s) does linked allocation have over continuous allocation? (10 points)

b. How does multilevel indexed allocation improve on indexed allocation? (10 points)