

Quiz #3
CSE 3320.002
Fall 2014

Name: _____

UTA ID: _____

“I certify that the following work is my work alone and I will follow the highest standards of integrity and uphold the spirit of the Honor Code”

Signature: _____

Directions: This is a closed book, closed notes quiz. Please answer the questions in briefly. Complete sentences are not necessary. Write your answers legibly. Unreadable answers will be counted wrong. You may write on back if needed. Questions are 20 pts a piece.

1. Briefly describe Indexed Allocation.

2. Briefly. What is a page fault? How does it occur?

3. Given a page request reference string of C A D B E B A B C D and a page table size of four, calculate how many page faults will occur with the optimal page replacement algorithm. Assume pages A B C D are initially loaded into the page table automatically.

4. Given the following request queue -- 95, 180, 34, 119, 11, 123, 62, 64 with the disk head initially at the track 50, the beginning of the disk at 0 and the end of the disk being at 199, calculate the travel time for the SSTF algorithm.

5. Given the following request queue -- 95, 180, 34, 119, 11, 123, 62, 64 with the disk head initially at the track 50, the beginning of the disk at 0 and the end of the disk being at 199, calculate the travel time for the SCAN algorithm.