

Name _____ SAMPLE _____

Last 4 digits of Student #: _____

GRADE: _____/100

CSE 3320, Operating Systems
Quiz 2, Fall 2012 © DL, UTA, 2012

Please read this:

This is a closed book, closed notes quiz. Use a dark ink (or pencil) and print answers on the test paper following the questions.

Please answer the questions in a **few keywords**, complete sentences are not necessary, **be brief! Write** your answers **legibly**. Unreadable answers will be counted wrong.

Please - no talking! You may write on back. Please turn in quiz promptly, when asked.

1. In terms of: file system, process management, and OS structure please list any 3 significant differences between CP/M and Unix/Linux (with no windowing UI)?
2. For Linux files: (a) What does "chmod" do? What happens if two people share that file? (b) How can two people share one file (if possible), please be specific?
3. The following jobs (processes) arrive:

Process (Job) ID	Arrival Time	Runtime
1	0	8
2	0	5
3	10	6
4	10	4
5	16	5

(If needed, the time quantum is 2)

- (a) (1) Please show the CPU timeline (GANTT chart) for a FCFS scheduler.
(2) What is the turnaround time for Job 2 and Job 5?
 - (b) Please show the GANTT chart for a Shortest Job Next (SJN) scheduler (with no preemption).
 - (c) (1) Please show the GANTT chart for a SJN scheduler, with preemption.
(2) What is the throughput?
 - (d) Please show the GANTT chart for a Round Robin (RR) scheduler.
4. Very briefly, what is a "race-condition"? Please describe a simple situation where one can occur.