CSCI 4417/5417, Quiz 1: Introduction (due at beginning of next class)

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This quiz has 14 questions for a total of 30 points.

1. (3 points) List three training or certificate programs for system administrators from different vendors or organizations and briefly describe key differences and similarities.

   1.
   
   2.
   
   3.

2. (3 points) Expand the acronym SUM CRUD and explain how it is useful in analyzing Systems Administration.

3. (4 points) Draw a picture of a simple, layered operating system with at least 3 layers and explain what each layer does.
4. (3 points) Describe three key steps that occur prior to the Operating System starting during the startup of a system:

   1.
   2.
   3.

5. (1 point) What is an MBR?

6. (1 point) How many primary partitions can you have on a disk?

7. (1 point) How many extended partitions can you have on a disk?

8. (1 point) How many logical partitions can you have on a disk?

9. (4 points) Draw and label appropriately the internal parts of a disk. You must label at least 4 parts.

10. (2 points) After inserting a floppy, Zip disk, or CD into a Unix system, what must be done before accessing files on that disk?

11. (4 points) List four layers of abstraction in dealing with disks and filesystems, and label with the corresponding Linux and Windows tools to manage the system at that layer.

   1.
   2.
   3.
   4.
12. (1 point) Explain the concept of run levels

13. (1 point) What is the default run level for a RedHat 9 Linux workstation?

14. (1 point) What is the relationship between run level 1 and run level S?