

Make sure to study the review sheets for exams #1 and #2. Material from these two study sheets may appear on the final.

1. Assume you are given a hard disk containing a number of important files. The hard disk is from an unknown operating system. What would you expect to find on the hard disk? Assuming that your task is to read the hard disk and save the files to a Microsoft Windows disk, what information would you need to obtain to do this? You may assume that you have a hex-dump of the entire disk, but NO other information.
2. How does the structure of a hard disk differ from the structure of a floppy disk?
3. Explain the structure of a directory. What information would you expect to find there?
4. Explain the three different file organizations: Linked List, Indexed, and Multiple Contiguous Blocks. Which is best?
5. In the UNIX/LINUX file system, what is an INODE?
6. How does the EXT2 file system (LINUX) differ from the UNIX file system?
7. Explain the function of the MFT in the NTFS file system.
8. What is a journaling file system and how does it work?
9. Describe the directory structure in the NTFS file system.
10. How do processes communicate in the PVM multi-processing system?
11. How many network ports per computer are needed for a bus-type network? A ring? A hypercube?
12. What are the lowest three layers of the ISO 7-layer standard. What takes place in each?