**File Systems**

Tannenbaum:

3,4,5,6,7,10,11, 15,16,17,18,19,21,22,26,27

Other:

1. What file organization would you choose (and why) to maximize efficiency in terms of speed of access, use of storage space and ease of updating (adding/deleting /modifying) when the data are: ( give me a good enough reason for your choice and you’ll get credit, even if it isn’t the choice I would make)
2. Updated infrequently and accessed frequently in random order?
3. Updated frequently and accessed in its entirety relatively frequently?
4. Updated frequently and accessed frequently in random order?
5. The open-file table is used to maintain information about files that are currently open. Should the operating system maintain a separate table for each user or just maintain one table that contains references to files that are currently being accessed by all users? If the same file is being accessed by two different programs or users, should there be a separate entries in the open-file table?
6. Describe what happens when an open file command is executed
7. Define Virtual File system
8. Describe journaling file systems. How does it work and what problem does it fix?
9. We discussed 2 methods of file allocation. Describe them. Include benefits and disadvantages
10. Describe how file systems calls work. (this question needs some definition or better structure. Help me write this question.

1. Describe Unix’sFFS (Fast file system). Include the layout and use of inode structure and entries.
2. File-System Backup: Describe the difference between a physical dump and a logical dump.
3. Question about file system consistency.