

Module 8 (Lectures 34-37) File systems

1. Data is said to be persistent if its lifetime
 - a) exceeds the execution time of the program that created it
 - b) equals the lifetime of the program that created it
 - c) equals the time between function call (where it was created) and return
 - d) extends from the beginning of recorded time until the end of time
2. Which of the following is not correct? A file is a named collection of data
 - a) on a magnetic hard disk
 - b) on a CD (optical compact disk)
 - c) in main memory
 - d) on a flash memory stick
3. Which of the following is not a component of disk access time?
 - a) seek time
 - b) TLB access time
 - c) rotational time
 - d) transfer time
4. What is the drawback of using linked allocation of blocks for files?
 - a) A file may have to be moved on disk when it grows beyond a certain size
 - b) A single file read operation might involve several disk read operations
 - c) The index must be large to allow the creation of large files
 - d) A file occupies several disk blocks even if it is of small size
5. In a file system, a directory provides
 - a) a copy in main memory of part of the contents of a file
 - b) a region of memory addresses mapped to the contents of a file
 - c) the pathname associated with a given file name
 - d) the file descriptor associated with a given file name