# COMP3500: File Management

**Exercise 1 (Plickers):** A file manager has the following responsibilities *except*

(A) Storing the information on a device

(B) Mapping the block storage to a logical view

(C) Allocating/deallocating storage and Providing file directories

(D) Handling hard drives in a uniform manner

**Exercise 2 (Plickers):** Which one of the following byte stream file interface is ill-designed?

(A) fileID = open(fileName)

(B) read(fileID, buffer, length)

(C) write(fileName, buffer, length)

(D) seek(fileID, filePosition)

**Exercise 3 (Plickers):** Which one of the following record-oriented sequential files interface is ill-designed?

(A) fileID = open(fileName)

(B) getRecord(fileID, record, length)

(C) putRecord(fileID, record)

(D) seek(fileID, position)

**Exercise 4 (Plickers):** Secondary storage device contains the following items except?

(A) Volume directory (sometimes a root directory for a file system)

(B) Process ID

(C) External file descriptor for each file

(D) The file contents

**Exercise 5 (Plickers):** What is a problem with the single-level directory?

1. Difficult to implement
2. Difficult to search the directory
3. Naming and grouping problem
4. Overhead is high

**Exercise 6 (Plickers):** What is a problem with the single-level directory?

1. Each block contains a header with
   * Number of bytes in the block
   * Pointer to next block
2. Blocks need not be contiguous
3. Files can expand and contract
4. Seeks are fast