2. In an environment where set time, (D).	everal processes may	open the same file	at the same
A) the operating system typ files	ically uses only one in	nternal table to keep tr	ack of open
B) the operating system typically uses two internal tables called the system-wide and per-disk tables to keep track of open files			
C) the operating system typ disk, and per-partition tal	•		stem-wide, per-
D) the operating system typer-process tables to keep	•	al tables called the sys	tem-wide and
3. Suppose that the operating files. Process A has two fil are shared between the two table of process A, the pertables, respectively? (B)	es open and process processes. How ma	B has three files op any entries are in the	en. Two files e per-process
A) 5, 5, 5 B) 2, 3, 3	C) 2, 3, 5	D) 2, 3, 1	
4. A shared lock ( C ).			
A) behaves like a writer loc	k		
B) ensures that a file can ha	we only a single concu	irrent shared lock	

D) will prevent all other processes from accessing the locked file

B) source C) object D) executable

1. A(n) (B) file is a sequence of subroutines and functions.

A) Text

C) behaves like a reader lock

- 5. The simplest file access method is (A).
  - A) sequential access B) logical access
  - C) relative access D) direct access
- 6. Which of the following is true of the direct-access method? (B)
  - A) It is the most common mode of access.
  - B) It allows programs to read and write records in no particular order.
  - C) Files are made up of variable-length records.
  - D) It is not a good method for accessing large amounts of data quickly.
- 7. Which of the following is true of the tree-structured directory structure? (D)
  - A) Users cannot create their own subdirectories.
  - B) Users cannot acquire permission to access the files of other users.
  - C) Directories can share subdirectories and files.
  - D) It is the most common directory structure.
- 8. An acyclic-graph directory structure (B).
  - A) does not allow the sharing of files.
  - B) allows the sharing of subdirectories and files.
  - C) is less complicated than a simple tree-structured directory structure.
  - D) is less flexible than a simple tree-structured directory structure.

ry and disk are performed a (C).
B) file at a time
D) sector at a time
system layers in order of lowest level to
logical file system
file-organization module
5, 1, 3, 2, 4
5, 1, 3, 4, 2
s the simplest method for implementing a
) linear list C) hash table D) nonlinear list
0,1,5,9,15 would be represented with what bit
B) 1100010001000001
D) 1100010001000000
s are necessary for direct access to byte 20680 is 4 KB in size? ( D )
D) 5

- 14. The free-space list can be implemented using a bit vector approach. Which of the following is a drawback of this technique? (B)
  - A) To traverse the list, each block must be read on the disk.
  - B) It is not feasible to keep the entire list in main memory for large disks.
  - C) The technique is more complicated than most other techniques.
  - D) This technique is not feasible for small disks.
- 15. A volume control block (D).
  - A) can contain information needed by the system to boot an operating system from that partition
  - B) is a directory structure used to organize the files
  - C) contains many of the file's details, including file permissions, ownership, size, and location of the data blocks
  - D) contains information such as the number of blocks in a partition, size of the blocks, and free-block and FCB count and pointers
- 16. Metadata includes all of the file-system structure, including the actual data (or contents of the file). (F)
- 17. Indexed allocation may require substantial overhead for its index block. ( T )
- 18. Linked allocation suffers from external fragmentation. (F)