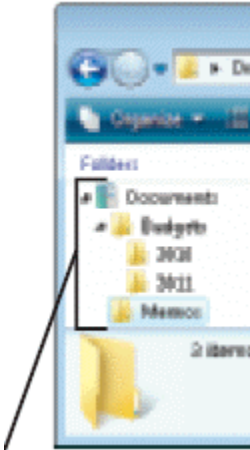


CIT-15 Chapter 3 Study Guide

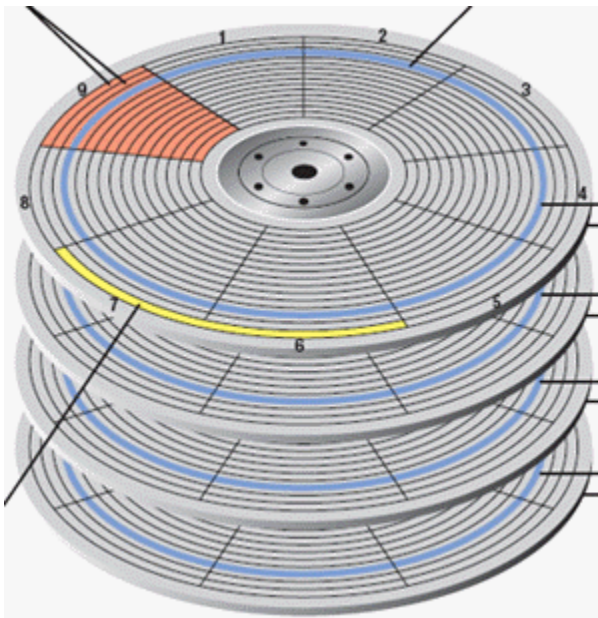
Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 1. A ___ is the hardware where data is actually stored.
- a. storage device
 - b. storage memory
 - c. storage processor
 - d. storage medium
- ___ 2. A storage medium is inserted into the appropriate ___ to be read from or written to.
- a. storage processor
 - b. bay
 - c. board
 - d. storage device
- ___ 3. Usually the storage device and storage medium are two separate pieces of hardware (that is, the storage medium is ___).
- a. procurable
 - b. static
 - c. removable
 - d. configurable
- ___ 4. Regardless of how storage devices are connected to a computer, ___ and/or names are typically assigned to each storage device.
- a. letters of the alphabet
 - b. vowels
 - c. single-digit numbers
 - d. special characters
- ___ 5. Some drive letters, such as the letter ___ typically used with the primary hard drive, are usually consistent from computer to computer and do not change even if more storage devices are added to a computer.
- a. A
 - b. B
 - c. C
 - d. H
- ___ 6. ___ means that data can be retrieved directly from any location on the storage medium, in any order.
- a. Indirect access
 - b. Random access
 - c. Sequential access
 - d. Online access
- ___ 7. Media that allow random access are sometimes referred to as ___ media.
- a. optical
 - b. identifiable
 - c. addressable
 - d. nonidentifiable
- ___ 8. One type of storage device that is sometimes used with computers and that uses sequential access is a ___.
- a. hard drive
 - b. flash drive
 - c. compact card
 - d. magnetic tape drive
- ___ 9. Anything (such as a program, letter, digital photograph, or song) stored on a storage medium is referred to as a(n) ___.
- a. label
 - b. index
 - c. folder
 - d. file
- ___ 10. To keep files organized, related documents are often stored in ___ (also called directories) located on the storage medium.
- a. indexes
 - b. labels
 - c. folders
 - d. programs
- ___ 11. Data files are also often called ___.
- a. scripts
 - b. documents
 - c. databases
 - d. sheets



- ___ 12. The line in the accompanying figure points to ____, which are used to organize related documents.
- | | |
|-----------|---------------|
| a. files | c. folders |
| b. drives | d. clipboards |
- ___ 13. External hard drives today typically connect to a computer via a USB or ____ port.
- | | |
|-------------|--------------|
| a. IrDA | c. Bluetooth |
| b. Firewall | d. FireWire |
- ___ 14. Virtually all personal computers come with a(n) ____ that is used to store most programs and data.
- | | |
|-----------------|-------------------|
| a. hard drive | c. Zip drive |
| b. floppy drive | d. external drive |
- ___ 15. Each hard disk is divided into pie-shaped groups of ____.
- | | |
|-------------|------------|
| a. tracks | c. files |
| b. clusters | d. sectors |



- ___ 16. A ____, as shown in the accompanying figure, consists of a vertical stack of tracks, with the same relative track on each disk surface.
- | | |
|-----------|-------------|
| a. sector | c. cylinder |
|-----------|-------------|

- ___ 30. To record data, holographic storage systems split the light from a blue laser beam into ___ beams.
- two
 - four
 - five
 - ten
- ___ 31. To read data, the reference beam projects the hologram containing the requested data onto a ___ that reads the entire data page at one time.
- spacer
 - modulator
 - header
 - detector
- ___ 32. A ___ is a separate piece of hardware containing multiple high-speed hard drives.
- storage server
 - storage drive
 - storage client
 - storage base
- ___ 33. ___ provide(s) a method of storing data on two or more hard drives that work in combination to do the job of a larger drive.
- Storage Area Networks (SANs)
 - RAID (redundant arrays of independent disks)
 - Network Attached Storage (NAS)
 - Holographic Storage
- ___ 34. RAID 0 uses disk ____, which spreads files over several disk drives.
- burning
 - striping
 - clustering
 - mirroring



- ___ 35. Most computer tapes today are in the form of ___ tapes, as shown in the accompanying figure.
- floppy
 - flash
 - optical
 - cartridge

Case-Based Critical Thinking Questions

Case 3-1

Dan is a small business owner who depends on his computer to keep track of customer and sales data. He is investigating storage options because it is critical for him to ensure that his data is safe in the event of a computer failure.

- ___ 36. A friend of Dan suggested to him that he can use an external hard drive for his data storage and backup needs. To use an external hard drive, Dan should make sure that his computer has an available USB or ___ port.
- ScanDisk
 - Zip
 - flash
 - FireWire
- ___ 37. As Dan is very concerned about maintaining the security of his business data, he should look for an external hard drive that comes with built-in ___.
- zipping
 - sequential access
 - encryption
 - holographic technology

Case-Based Critical Thinking Questions

Case 3-2

Rodney owns a computer that he uses to work, keep in touch with friends and family, watch movies, listen to music, and use the Internet.

- ___ 38. If Rodney wants to record music files onto a CD, he needs to make sure that his operating system has CD-___ capabilities.
- | | |
|--------------|-------------|
| a. mirroring | c. hybrid |
| b. burning | d. striping |
- ___ 39. If Rodney wants to be able to record, erase, and overwrite the files on a CD, he should get a ___.
- | | |
|----------|----------|
| a. CD-R | c. CD-RW |
| b. CD-HD | d. CD-BD |
- ___ 40. Rodney wants to be able to easily carry files with him wherever he goes but he also has a tendency to lose things. Knowing this, he should probably save those files on a ___ drive which he can then attach to his backpack.
- | | |
|--------------|-----------|
| a. USB flash | c. fusion |
| b. hard | d. CD |