Lab Analysis Test

1. Jovan installed an optical drive on the same cable as his primary hard drive, and now the system will not boot. What could be causing this?

2. Mark wants to use optical discs to create backups of his data. He has about 20 GB of documents, movies, photos, and music. Using what you know about optical disc capacities, what would you recommend to him as the best solution for backing up data to optical discs? What, if any, special considerations will Mark need to keep in mind?

3. Cecelia is a freelance Web designer who is delivering some files to a client. She sits down at a Windows XP system in the client's office and plugs in her trusty USB thumb drive, but nothing happens—Windows doesn't acknowledge the device at all. The thumb drive has been working perfectly well, as recently as this morning. What is most likely the reason that the USB thumb drive won't connect with the client PC?

4. When Philip puts his CD-RW disc in the drive and copies files to and from it, he notices that the drive speeds up and slows down. Is this normal? If not, what should he do to fix it?

5. After removing an optical drive for replacement, you remember that you left a disc in the drive. You look for a hole to insert the paper clip into, but there is none. How do you remove the disc?

Key Term Quiz

Use the following terms to complete the following sentences. Not all terms will be used.

- Blu-ray
- CMOS
- disc
- DMA
- label
- optical drive
- scratches
- spiral
- surface
- USB 1.0
- USB 2.0
- USB 3.0
1. An optical drive must be identified in the ____________ settings.

2. ____________ Discs can hold and play back large quantities of high-definition video and audio, as well as photos, data, and other digital content.

3. Any drive that uses a laser of some sort to read data from a disc is called a(n) ____________.

4. The ____________ version of thumb drives supports a maximum throughput of 480 Mbps.

5. The reflective aluminum layer of an optical disc can be damaged by ____________.