

Chapter 6

Supporting I/O and Storage Devices

Reviewing the Basics

1. What command can you enter in the Search box to launch Device Manager?

Devmgmt.msc

2. Which is faster, an eSATA-600 port or a FireWire 800 port?

eSATA-600

3. What is the speed for Hi-Speed USB?

480 Mbps

4. How many times faster is a Hi-Speed USB port than an Original USB port running at 12 Mbps?

40 times faster

5. Which is faster, USB 3.0 or eSATA 600?

eSATA 600

6. Which is faster, Wi-Fi 802.11n or Bluetooth?

Wi-Fi 802.11n

7. How many pins does a FireWire 800 port have?

9 pins

8. What type of wireless transmission requires a line-of-sight clearance?

Infrared

9. Will a printer rated to use USB 3.0 work when you connect the printer's USB cable into a USB 2.0 port on your computer?

Yes, but at the USB 2.0 speed.

10. What is the easiest way to tell if a USB port on a notebook computer is using the USB 3.0 standard?

Check the color of the port, which is blue.

11. For an LCD monitor, what is the best resolution to use?

The native resolution

12. Which gives a better measurement for the quality of an LCD monitor, the contrast ratio or the dynamic contrast ratio?

The contrast ratio

13. Which type port gives the best output, a composite out port or an S-Video port?

An S-Video port

14. What command do you use to find out what version of DirectX your video card is using?

Dxdiag.exe

15. Name two types of ports a keyboard might use.

PS/2, USB

16. Which Windows utility is most likely the one to use when uninstalling an expansion card?

Device Manager

17. Would you expect all the devices listed in BIOS setup to also be listed in Device Manager? Would you expect all devices listed in Device Manager to also be listed in BIOS setup?

Yes, no

18. Why is it best to leave a slot empty between two expansion cards?

To improve air flow

19. Which speaker port should you use when connecting a single speaker to a PC?

The lime green audio port

20. What type of adapter card allows you to watch TV using your computer?

TV tuner card

21. What type of file system is used by Blu-ray discs?

UDF

22. What type of file system is used by SDXC memory cards?

exFAT

23. What two types of interfaces might be used by an internal DVD drive?

SATA or IDE (PATA)

24. How much data can a CD hold?

700 MB

25. How much data can a double-sided, dual-layer DVD hold?

Advertised as 17 GB but actually 15.90 GB

26. How much data can a double-sided, single-layer BD hold?

25 GB

27. Which costs more, a CD-R or a CD-RW disc?

CD-RW

28. Which type of flash memory card is currently the smallest type of card?

MicroSD, also the same size as MicroSDHC and MicroSDXC

29. What are the group of standards that represent music in digital form?

MIDI

30. Why might a musical keyboard have two MIDI ports?

One MIDI port for output and one MIDI port for input

Thinking Critically

1. If a PS/2 keyboard does not work on your system and yet you know the keyboard is good, what is the best solution?

- a. Disable the PS/2 port in BIOS setup and use a PS/2 splitter to install a keyboard and mouse using the PS/2 mouse port.
- b. Install a USB keyboard on a USB port.
- c. Exchange the PS/2 port on your motherboard.
- d. Replace the motherboard.

Answer: b. Install a USB keyboard on a USB port.

2. You plug a new scanner into a USB port on your Windows 7 system. When you first turn on the scanner, what should you expect to see?

- a. A message displayed by the scanner software telling you to reboot your system.
- b. You see the Found New Hardware Wizard launch.
- c. Your system automatically reboots.
- d. An error message from the USB controller.

Answer: b. You see the Found New Hardware Wizard launch.

3. You turn on your Windows 7 computer and see the system display POST messages.

Then the screen turns blue with no text. Which of the following items could be the source of the problem?

- a. The video card
- b. The monitor
- c. Windows
- d. MS Word software installed on the system

Answer: c. Windows

4. You have just installed a new sound card and its drivers and connected the speakers and amplifier. You insert a music CD into the drive to test the drive. Windows Media Player launches and says it is playing the CD, but you don't hear music. What do you do first?

- a. Check the volume controls on the speaker amplifier.
- b. Check the connections of the amplifier and speakers to the card.
- c. Check Device Manager for errors with the sound card.
- d. Verify that the amplifier has power.

Do the simple thing first: a. Check the volume controls on the speaker amplifier.

5. You have just installed a new sound card in your system, and Windows says the card installed with no errors. When you plug up the speakers and try to play a music CD, you hear no sound. What are the first things you should do? The second thing?

- a. Check Device Manager to see if the sound card is recognized and has no errors.
- b. Reinstall Windows 7.
- c. Use Device Manager to uninstall the sound card.

- d. Identify your sound card by opening the case and looking on the card for manufacturer and model.
- e. Verify the volume is turned up in Windows and on the speakers.
- f. Use Device Manager to update the sound card drivers.

Answer: e. Verify the volume is turned up in Windows and on the speakers.

- a. Check Device Manager to see if the sound card is recognized and has no errors.
6. You have just installed a new DVD drive and its drivers under Windows 7. The drive will read a CD but not a DVD. You decide to reinstall the device drivers. What is the first thing you do?
- a. Open the Control Panel and launch the Add New Hardware Wizard.
 - b. Open Device Manager and choose Update Driver.
 - c. Remove the data cable from the DVD drive so Windows will no longer recognize the drive and allow you to reinstall the drivers.
 - d. Open Device Manager and uninstall the drive.

Answer: d. Open Device Manager and uninstall the drive.

7. Match the following ports to the diagrams in Figure 6-73. Note that some ports are not used: Dual Link DVI-I, Single Link DVI-D, parallel, USB Type A, USB Type B, FireWire 400, VGA, DisplayPort, Mini Display Port, 4-pin S-Video, HDMI, and PS/2, serial.