

220-301

CompTIA A+ Core Hardware

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Question: 1

What should you do if the fan in the power supply stops working?

- A. Replace the fan.
- B. Replace the case.
- C. Lubricate the fan.
- D. Replace the bearing
- E. Replace the power supply.

Answer: E

Explanation:

The whole power supplier should be replaced. PC technicians should not try to repair power supplies.

Question: 2

What does an error during POST on a PC mean? (Choose two)

- A. BIOS require resetting.
- B. Hardware failure.
- C. HIMEM.SYS is missing or faulty.
- D. The drivers for the device are incorrect.
- E. The Windows file system is generating an error.

Answer: A, B

Explanation:

- A. POST errors could disappear after a reset of the BIOS.
- B. Errors during POST are hardware-related.

Incorrect Answers

- C. Missing files or incorrect files would not generate POST errors.
- D. Drivers are software-related. BIOS handles hardware.
- E. POST errors are not affected by the operating systems.

Question: 3

You are a technician at Company. Your newly appointed Company trainee wants to know which are the correct combinations of COM ports and IRQs on a PC. What would your reply be? (Choose two)

- A. COM1 and COM2, IRQ5
- B. COM3 and COM4, IRQ2
- C. COM1 and COM3, IRQ4
- D. COM1 and COM3, IRQ3
- E. COM2 and COM4, IRQ3

Answer: C, E

Explanation:

COM1 and COM3 use IRQ4.
COM2 and COM4 use IRQ3.

Question: 4

You are the technician at Company. You want to configure the hard disk in the BIOS. Where does BIOS save this setting?

- A. CPU
- B. CMOS
- C. Memory
- D. Hard Drive

Answer: B

Explanation:

The BIOS settings are stored in the CMOS memory.

Question: 5

You are a trainee at Company. You are told to connect a bootable hard drive to a PC. Which connector on the IDE cable should you use?

- A. The first connector of the primary IDE controller.
- B. The second connector of the primary IDE controller.
- C. The third connector of the primary IDE controller.
- D. Either the first or the second connector of the primary IDE controller.

Answer: D

Explanation:

The bootable device is not decided by the location on the IDE connector.

The active partition will be the bootable drive. The active partition is configurable from within the OS.

Question: 6

You are a technician at Company. Your newly appointed Company trainee wants to know how to identify an ATA/33 IDE cable from an ATA/66 IDE cable. What would your reply be?

- A. Cable color
- B. Cable pin out
- C. Twists in the cable
- D. Number of wires

Answer: D

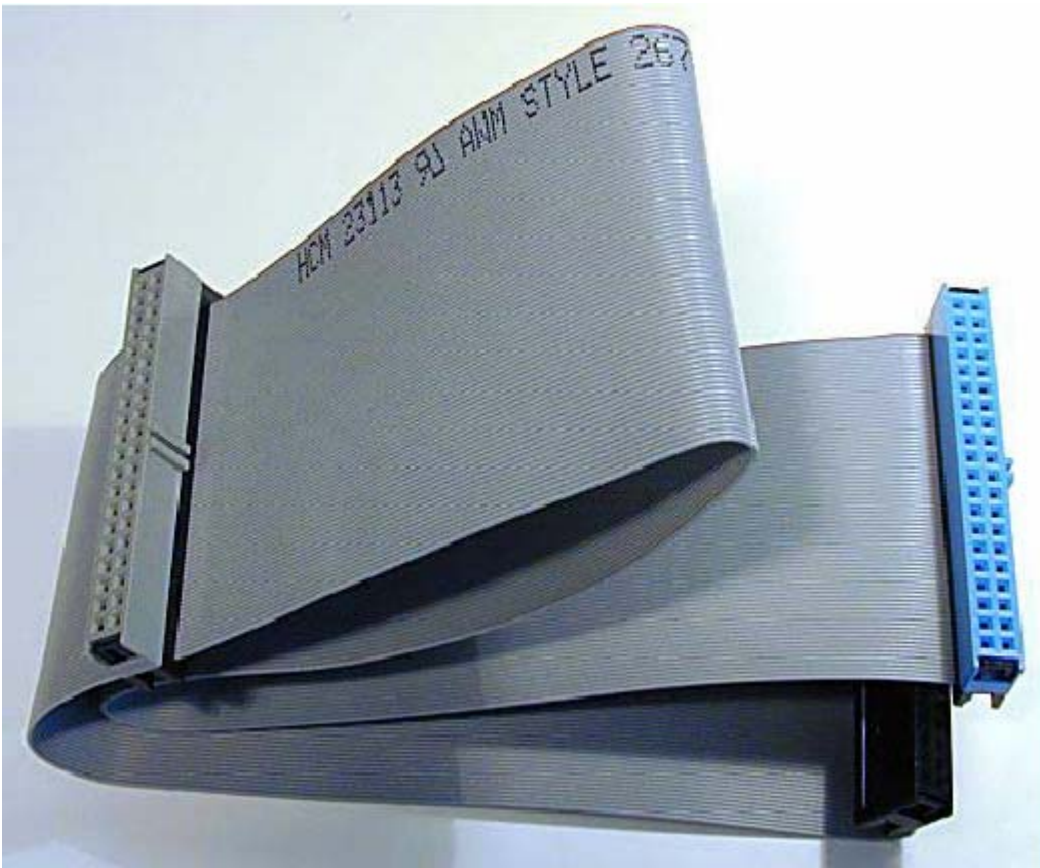
Explanation:

The ATA/33 cable has 40 wires, while the ATA/66 cable has 80 wires. The best way to distinguish between the cables is simply to count the wires

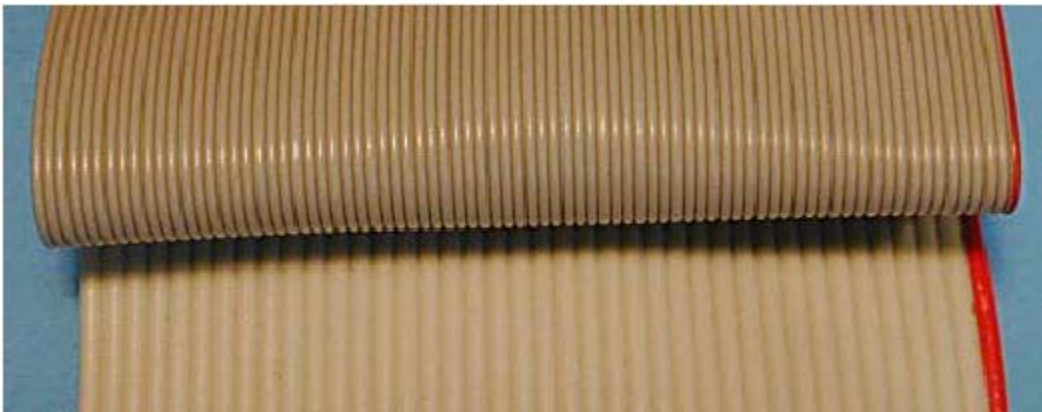
Note.

Ultra ATA/66 removes bottlenecks associated with data transfers, especially during sequential operations. Ultra ATA/66 requires a special 40-pin, 80-conductor cable that reduces noise bleed-over and improves signal integrity by providing 40 additional ground lines between each of the standard 40-pin ATA signal lines and ground lines.

ATA/66 cable with 80 wires.



ATA/33 cable with 40 wires.



Incorrect Answers

- A. There is no standard for coloring the cables..
- B. Both the ATA/33 cable and the ATA/66 cable use 40-pins. This enables ATA/33 and ATA/66 devices can coexists on the same cable. However, since both cables have the same number of pins they cannot easily be distinguished by pins.
- C. There are no twists in the cable.

Question: 7

The CEO at Company wants to attach a digital video camera to her PC.

Which computer port should she use?

- A. USB
- B. RS-232
- C. IEEE 1284
- D. IEEE 1394

Answer: D

Explanation:

Digital video cameras typically use the firewire port, also known as the IEEE 1394 standard. IEEE 1394 is a faster interface than the USB, RS-232 (serial), and IEEE 1284 (parallel) interfaces.

Question: 8

Which of the following are managed by the system board BIOS?

- A. NIC (Network Interface Card)
- B. Printers
- C. Modems
- D. ATA (IDE)

Answer: D

Explanation:

IDE ATA settings are included BIOS.

Incorrect Answers

Network adapters, printers, and modems are not configured in BIOS.

Question: 9

A customer has a motherboard that accepts the 5 pin DIN keyboard connector. What type of motherboard could the customer have? (Choose two)

- A. AT
- B. XT
- C. LT
- D. ATX

There is no standard for coloring the cables..

Answer: A, B

Explanation:

AT and XT can supply the 5-pin DIN keyboard connector.

Question: 10

You are a technician at Company. Your newly appointed Company trainee has a floppy drive cable. She wants to know what is the drive letter assigned to the drive after the twist. What would your reply be?

- A. A
- B. B
- C. C
- D. D

Answer: A

Explanation:

The floppy drive connected after the twist will be assigned the letter A.

Incorrect Answers

B. The floppy drive connected **before** the twist will be assigned the letter B.

C, D. The letters C and D cannot be assigned to diskette drive. They are used for mass storage devices such as hard drives and CD-ROMs.

Question: 11

Which of the following onboard devices on a motherboard drive can be updated through software?

- A. Chip set
- B. Data bus
- C. System BIOS
- D. IDE controller

Answer: C

Explanation:

The System BIOS can be updated with a Flash BIOS upgrade program usually resident on a diskette.

Question: 12

Company has a PC with a SCSI chain that currently supports six hard drives, a DVD-ROM drive and a CD-RW drive. What is unique about each device on the chain?

- A. I/O
- B. LUN
- C. Identification
- D. Master or Slave

Answer: C

Explanation:

The identification of each device on the SCSI chain must be unique.

A simple SCSI chain works like a network, and, like a network, each device requires its own unique address. A SCSI device can have any ID number in a range recognized by the host adapter, as long as no other device on the same chain has been set to the same number.

Incorrect Answers

A. Unique I/O addresses are not required by SCSI devices.

B. It is possible to have a single SCSI ID support more than one device. Logical unit numbers (LUNs) can be used to provide a unique identifier for up to seven subunits per ID number.

This is not the best answer however.

D. Master and slave settings are used by IDE devices, not by SCSI devices.

Question: 13

On a PC, where would you store the firewall?

- A. RAM
- B. CPU
- C. Hard disk

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