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Cram Guide for Exam 220-301 A+ Core Hardware

Domain 1 Installation, Configuration, and Upgrading
Identify the names, purpose, and characteristics, of system modules.

1. System modules refer to items like Motherboard, Firmware, Power supply, Processor, Memory, Storage devices, Display devices, Adapter cards, Ports, Cases and Riser cards.
2. Instructions written to a ROM chip and are unchangeable under any circumstances are called firmware.
3. Riser card occupies less space and is ideal for small desktop chassis.

Identify basic procedures for adding and removing field-replaceable modules for desktop systems.

4. Modules should be in an antistatic bag before use.
5. After replacement, go to Device Manager to check and see if it is working.
6. Beware of ESD (Electrostatic Discharge) – can damage the integrated circuits. Use anti-static wrist and ankle straps whenever possible.
7. The procedures are: uninstalling your current device's drivers, removing your current device, installing your new device, and installing the new device 's drivers directly.
8. Many portable computers use proprietary components.
9. Type I cards are 3.3mm thick and have a single row of connectors.
10. Type II cards are 5mm thick and have two rows of connectors.
11. Type III cards are up to 10.5mm thick and have four rows of connectors.

Identify typical IRQs, DMAs, and I/O addresses, and procedures for altering these settings when installing and configuring devices.

12. When you install a new device, it is assigned an IRQ number to allow the CPU to know which device is interrupting and requesting service.
13. Some devices may share an IRQ as long as they do not attempt to interact with the CPU at the same time.
14. DMA channels allow certain types of devices to bypass the CPU and access main memory directly.
15. Two devices cannot share a single DMA channel.
16. The CPU uses the I/O address to send a command to the device. In theory, each device can have only one I/O address.
17. You need to memorize the IRQ numbers and the I/O addresses.

Install and configure server hardware devices.

18. << Memory Addressing >>.
   - COM1   3F8-3FFh
   - COM2   2F8-2FFh
   - COM3   3E8-3EFh
   - COM4   2E8-2EFh
   - LPT1   378-37Fh
   - LPT2   278-27Fh
19. << IRQ's >>.
   - 0   System Timer
   - 1   Keyboard
   - 2   Cascade to IRQ 9
   - 3   Com2 / Com4
   - 4   Com1 / Com3
   - 5   Available - sound card or LPT2
   - 6   Floppy Disk Controller
   - 7   Parallel Port - LPT1
   - 8   Real-time clock
   - 9   Redirected IRQ2 / Cascade
   - 10   Available
   - 11   Available
   - 12   PS/2 Mouse
   - 13   Math Coprocessor
   - 14   Hard Disk Controller
   - 15   Available
20. << DMA >>.
   - 0   DRAM refresh
   - 1   Sound card
   - 2   Floppy disk drive
   - 3   ECP or EPP parallel port.
   - 4   DMA controller
   - 5   Sound card
   - 6   Available
   - 7   ISA IDE Hard Drive Controller

Identify the names, purposes, and performance characteristics, of standardized/common peripheral ports, associated cabling, and their connectors.

21. You need to know the following ports and cables: Serial, Parallel, USB, and IEEE 1394 Firewire.
22. Both USB and Firewire are hot-swappable serial interfaces, but the later provides much higher bandwidth.
23. USB ports can supply power to the USB devices. IEEE 1394 is primarily used for video capture applications.
24. Both serial and parallel ports can accommodate DB25 connectors.
25. Nowadays the PS/2 connector is for connecting mouse only.

Identify proper procedures for installing and configuring common IDE devices.

26. Make sure the master and slave jumpers are properly set.
27. Each IDE channel can support two IDE devices. You have 2 channels on each motherboard.
28. For performance reason, CDROM and hard drive should be on different channels.

Identify proper procedures for installing and configuring common SCSI devices.

29. The SCSI interface is a shared-bus configuration that supports a wide variety of peripherals, but the actual controllers are built into each SCSI device.
30. Each device on the SCSI chain must be identified by a unique ID number.
31. A SCSI device must not use the same ID number as another.
32. SCSI-1 allows for 8 devices to be connected to a single SCSI cable. SCSI-2 supports up to 16 devices.
33. Both ends of the SCSI chain must be terminated with resistors to prevent signal reflections.

Identify proper procedures for installing and configuring common peripheral devices.

34. Common peripheral devices may include Modems and transceivers, External storage, Digital cameras, PDAs, Wireless access points, Infrared devices, Printers, UPS (Uninterruptible Power Supply) and suppressors, Monitors...etc. You need to have the corresponding drivers handy during configuration.
35. Devices like scanners, printers, camera ...etc mostly support USB connections.
36. As a safety measure, turn off the power of the computer before installing these devices.

Identify procedures to optimize PC operations in specific situations.

37. Use RAID to increase disk subsystem performance. RAID 0 / Data Striping interleaves data across multiple drives, while RAID 5 / Data Striping additionally stores parity bits from two drives on a third drive for fault tolerance. They are both fast.
38. Fast CPU and high capacity hard drives require extensive cooling.
39. Not all OS support dual CPU configuration. Win 2000, WinXP and most Linux distributions do support dual CPUs. Win 98 and Win ME do not.

Determine the issues that must be considered when upgrading a PC.

40. Hardware compatibility is one thing – will the new device work with your existing hardware? Also, do you have the driver for your legacy devices?
41. OS support is another issue – did you check the hardware compatibility list of your OS?

Domain 2 Diagnosing and Troubleshooting

Recognize common problems associated with each module and their symptoms, and identify steps to isolate and troubleshoot the problems.

42. Recognize common problems associated with each module and their symptoms, and identify steps to isolate and troubleshoot the problems.
43. Always make sure that the CPU cooling fan is running smoothly.
44. RAM errors always show up in the same address. Errors caused by drivers or other hardware tend to show up in multiple different memory areas.
45. For other devices, always check the power cable connectivity and BIOS settings. Also check to see if there is any IRQ / DMA / I/O address conflicts.

Identify basic troubleshooting procedures and tools, and how to elicit problem symptoms from customers.

46. In order to determine whether it is a hardware or software problem, you must gathering information from user regarding the environment of use, the symptoms/error codes, and the situation when the problem occurred. The key to success is problem isolation.

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Robb Tracy

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