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The Power of Knowing



Exam : 220-301

Title : A+ Core technologies

QUESTION 1

The USB port can supply power for a device?

- A. True
- B. False

Answer: A

Explanation: Some USB devices, such as hard drives, have their own power supply, while other USB devices, like keyboards, use power from the USB interface.

QUESTION 2

When replacing a power supply what must you observe?

- A. Voltage
- B. Current
- C. Wattage
- D. Resistance

Answer: C

Explanation: The wattage should be checked. The replacement power supply should supply the same Wattage.

QUESTION 3

What would a Multimeter be used to measure?

- A. CD-ROM data
- B. Power-supply voltage
- C. Floppy drive speed
- D. RAID controller synchronization

Answer: B

Explanation: A multimeter can be used to measure voltage.

QUESTION 4

What is your first action when windows report that your hard drive is developing bad sectors?

- A. Replace the hard drive.
- B. Run Secclean from DOS
- C. Run the defrag utility on the hard Drive.
- D. Run Scan Disk with the thorough option.

Answer: D

Explanation: Scan disk should be run to check and repair hard disk.

Incorrect Answers

A: Eventually we could be forced to replace the hard drive, but should not be the first action.

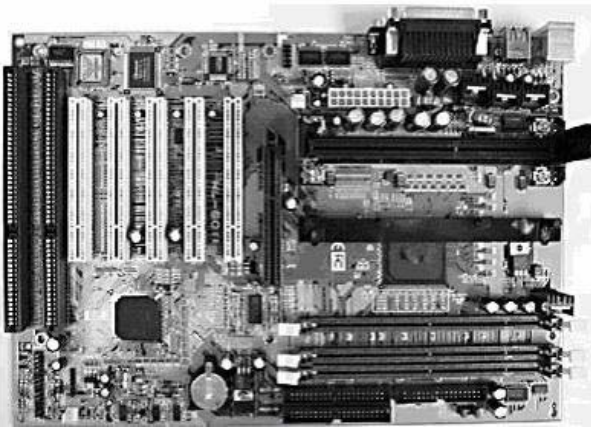
B: Secclean is a UNIX utility.

C: Defragmenting the hard drive could make things worse. We should repair the disk first.

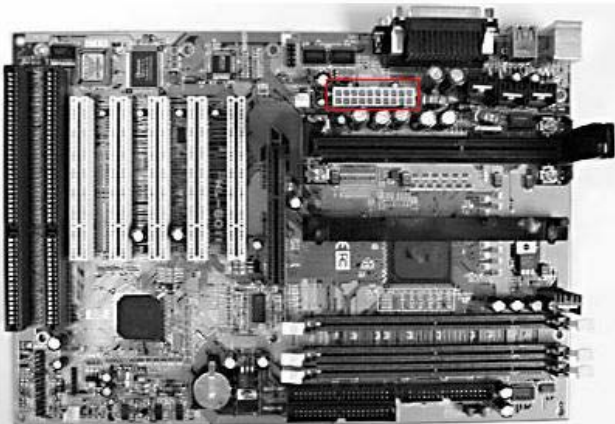
QUESTION 5

HOTSPOT

Click the area on the graphic that shows the power connector,



Answer:



QUESTION 6

Which CPU is intended to operate at a 66MHZ motherboard speed?

- A. Intel 80486
- B. Pentium 75
- C. Pentium II 350
- D. Pentium II 300

Answer: D

Explanation: The CPU speed must be a multiple of the bus speed. A 66MHz bus speed times 4.5 gives 300 MHz.

Incorrect Answers

A: No 486 processor had a bus speed of 66MHz: The maximum bus speed of a 486 processors is 33MHz.

B, C: Neither 75MHz and 350MHz are not dividable with 66MHz. The CPU speed must be a multiple of the bus speed.

Pentium 75 works at 50Mhz bus speed.

QUESTION 7

A customer has a PC that supports an AMD Athlon XP 2100 + processor. What is the Front side Bus speed of the customer's main board?

A: 133 MHz

B: 166 MHz

C: 200 MHz

D: 266 MHz

Answer: D

QUESTION 8

You are the technician at Certkiller . The Certkiller CEO wants to migrate to a 64 bit processor. Which of following processors would you suggest using? (Choose two)

A. AMD Opteron

B. Intel Itanium

C. Intel k64

D. AMD k64

Answer: A, B

QUESTION 9

A customer has a motherboard with a Slot A socket. What processor can the customer use?

A. An AMD K7

B. An Intel MMX

C. An AMD Athlon

D. An Intel Pentium Coppermine

E. AMD K6

F. Intel Pentium 3

Answer: C

QUESTION 10

Which IRQ does the system timer use?

- A. IRQ 0
- B. IRQ 1
- C. IRQ 2
- D. IRQ 3

Answer: A

IRQ Number Typical Use Description

IRQ 0 System timer This interrupt is reserved for the internal system timer. It is never available to peripherals or other devices.

IRQ 1 Keyboard This interrupt is reserved for the keyboard controller. Even on devices without a keyboard, this interrupt is exclusively for keyboard input.

IRQ 2 Cascade interrupt for IRQs 8-15 This interrupt cascades the second interrupt controller to the first.

IRQ 3 Second serial port (COM2) The interrupt for the second serial port and often the default interrupt for the fourth serial port (COM4).

IRQ 4 First serial port (COM1) This interrupt is normally used for the first serial port. On devices that do not use a PS/2 mouse, this interrupt is almost always used by the serial mouse. This is also the default interrupt for the third serial port (COM3).

IRQ 5 Sound card This interrupt is the first choice that most sound cards make when looking for an IRQ setting.

IRQ 6 Floppy disk controller This interrupt is reserved for the floppy disk controller.

IRQ 7 First parallel port This interrupt is normally reserved for the use of the printer. If a printer is not being used, this interrupt can be used for other devices that use parallel ports.

IRQ 8 Real-time clock This interrupt is reserved for the system's real-time clock timer and can not be used for any other purpose.

IRQ 9 Open interrupt This interrupt is typically left open on devices for the use of peripherals.

IRQ 10 Open interrupt This interrupt is typically left open on devices for the use of peripherals.

IRQ 11 Open interrupt This interrupt is typically left open on devices for the use of peripherals.

IRQ 12 PS/2 mouse This interrupt is reserved for the PS/2 mouse on machines that use one. If a PS/2 mouse is not used, the interrupt can be used for other peripherals, such as network card.

IRQ 13 Floating point unit/coprocessor This interrupt is reserved for the integrated floating point unit. It is never available to peripherals or other devices as it is used exclusively for internal signaling.

IRQ 14 Primary IDE channel This interrupt is reserved for use by the primary IDE controller. On systems that do not use IDE devices, the IRQ can be used for another purpose.

IRQ 15 Secondary IDE channel This interrupt is reserved for use by the secondary IDE controller.

QUESTION 11

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 12

Which is the main communication method from one PDA (Personal Assistant) to another PDA (Personal Digital Assistant)?

- A. IR (Infrared)
- B. USB
- C. RS-232
- D. IEEE 1394

Answer: A

QUESTION 13

What PC component normally comes in PGA, SEDC & SEP packaging?

- A. Network Adapter
- B. Motherboard
- C. Memory
- D. Processor

Answer: D

QUESTION 14

What Color-Code is used for the mouse Port on a new PC that uses a DIN 6 Connector?

- A. Red
- B. Blue
- C. Green
- D. Purple

Answer: C

PS/2 purple mini-din 6 pin for keyboard

PS/2 green mini-din 6 pin for mouse

QUESTION 15

Which device allows a laptop/notebook computer to easily connect and disconnect with external monitors, keyboards, mice and other peripherals?

- A. expansion card
- B. port replicator
- C. Fibe Channel
- D. keyboard wedge

Answer: B

A Port Replicator is device containing common PC ports, such as serial and parallel ports, that plugs into a notebook computer. The purpose of the device is to allow you to easily attach a portable computer to standard, non-portable devices such as a printer and monitor. For example, if you use a computer both at home and at work, you could set up both work areas with a port replicator. Then, you just plug in your notebook computer to the port replicator at either location and you're ready to work.

Most notebook computer manufacturers offer a port replicator as an additional option. A port replicator is similar to a docking station, but docking stations provide additional slots for adding expansion boards and storage devices.

QUESTION 16

Hard disks with _____ can improve PC performance.

- A. cooler running temperatures
- B. faster rotation speeds
- C. greater storage capacities
- D. smaller footprints

Answer: B

They are faster.

QUESTION 17

Which of the following devices are hot-swappable?

- A. PS/2 mouse
- B. AGP video card
- C. CardBus network card
- D. Parallel port printer

Answer: C

QUESTION 18

Based on the exhibit, in what type of I/O bus should the card shown be used?



- A. PCI

- B. ISA
- C. EISA
- D. MicroChannel

Answer: A

QUESTION 19

Which of the following would NOT be repaired onsite?

- A. Virus infection
- B. Faulty video card
- B. File system errors
- C. CRT high voltage supply

Answer: C

Explanation: Only a specialist should try to repair a monitor.

QUESTION 20

What media would you use to send 800 MB to 2 GB files?

- A. Diskette
- B. CD-ROM
- C. DVD-ROM
- D. External Hard drive

Answer: C

QUESTION 21

HOTSPOT

Click the area on the graphic that shows the sound card speaker connection?



Answer:



QUESTION 22

How should you open the tray on an inoperative CD-ROM drive?

- A. Push the eject button.
- B. Push in on the lower-right corner door.
- C. Right-click the CD icon and select Eject.
- D. Insert a paper clip into the CD drive eject hole.

Answer: D

Explanation: The eject hold of the CD Drive can be used to mechanically open the drive.

QUESTION 23

Which memory address range is reserved for VGA video card?

- A. C000-C3FF
- B. C000-C7FF
- C. D000-D7FF
- D. D000-DFFF

Answer: B

Explanation: The video BIOS is usually mapped to the upper memory address range C000-C7FF

QUESTION 24

Which motherboard type allows you to turn off the computer via software?

- A. AT
- B. ATX
- C. MCA
- D. VESA

Answer: B

Explanation: ATX has a soft power switch.

Incorrect Answers

A: AT motherboards are older and do not support a soft power switch.

C, D: MCA and VESA are slot types, not motherboard types.

QUESTION 25

On the dot-matrix you only see the bottom half of the characters. What is a possible cause of this?

A. Defective print head. B. Wrong paper thickness.

B. Paper text incorrectly on tractor.

C. Defective home position sensor.

Answer: A

Explanation: The print head is defective and should be replaced.

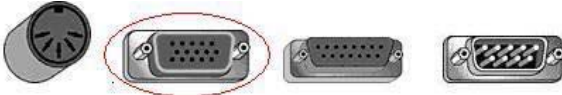
QUESTION 26

HOTSPOT

Click the area on the graphic that shows the Monitor connector.



Answer:



Explanation:

The monitor connector has three rows. The joystick connector has two rows.

QUESTION 27

How many bits wide is the AGP Bus?

A. 8

B. 16

C. 32

D. 64

Answer: C

Explanation: AGP (Advanced Graphic Port) is a 32-bit bus designed for the high demands of 3-D graphics.

QUESTION 28

With respect to the interface network card, what does the term 10/100 refer to?

- A. Protocol speed.
- B. A fiber network.
- C. Megabits per second.
- D. Minimum and maximum server speed.

Answer: C

Explanation: 10/100 refers to the transfer rate which is measured in Megabits per seconds (Mbps). More specifically it specifies that the network adapter supports both the 10Mbps and the 100Mbps speed.

QUESTION 29

What is a type of IDE translation?

- A. LBA
- B. UTB
- C. QIC
- D. USB

Answer: A

Explanation: LBA, Logical Block Addressing, is a translation standard for BIOS to support IDE drives larger than 528 MB. LBA is an old IDE translation.

QUESTION 30

You are the technician at Certkiller . The sales director's computer shuts down and reboots unexpectedly. Which of the following could be a cause of this problem?

- A. The BIOS is set to reboot automatically every day.
- B. Her external SCSI CD-RW is using too much power.
- C. The CMOS is configured to cycle power at a certain time.
- D. The power supply is not providing enough power to the system.

Answer: D

Explanation: One likely cause of sporadic system reboots could be a malfunctioning power supply. Fluctuations in the voltage would cause reboots.

Incorrect Answers

- A: There is no BIOS setting that reboots the system every day.
 - B: Most external devices use their own power supply. Furthermore, if an external device needs more power than the system can handle, the external device fails, not the computer.
 - C: There is no such CMOS configuration.
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