HP

Exam HP2-T16

Industry Standard Architecture and Technology

Version: 5.0

[Total Questions: 103]

Topic 0, A

A

Question No : 1 - (Topic 0)

What is provided by the serial port hardware interface for managing network devices?

A. scalability
B. ability to offload functions from the host
C. well-defined communications standards
D. caching and advanced functions

Answer: B

Question No : 2 - (Topic 0)

Which statement is true about the installation of DIMM memory modules?

A. A bank of DIMMs cannot contain DIMMs of mixed size and speed.
B. DIMMs with gold pins can be used on system boards with gold planet and tin plated contacts.
C. DIMMs with 144 pins provide error checking and correcting capabilities.
D. Performance defaults to the highest DIMM speed.

Answer: A

Explanation:

{\rtf1\ansi\ansicpg936\deff0\deflang1033\deflangfe2052{\fonttbl{\f0\fnil\fcharset0 MS Shell Dlg 2;}}
\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 118:\par
Depending on the server model and memory technology, installations might require that memory be added in banks of four DIMMs. Mixing of 50ns and 60ns memory is permitted; however, each bank of four DIMMs must contain the same size and speed DIMMs.\par
}

Question No : 3 - (Topic 0)

Which statement is true about PCI Express architecture?

A. Data is sent serially.

B. PCI Express utilizes more pins than PCI-X.
C. PCI Express transfers data in half-duplex.
D. Data is sent in paralell.

Answer: A

Question No : 4 - (Topic 0)

Your server is running Windows 2003 and you are experiencing network performance issues. What can you do to determine if the bottleneck is the network card?

A. Replace the NVRAM on the network card.
B. If the server contains multiple network cards, remove all but one card.
C. Run the system monitor applet to monitor the network throughput.
D. Add NVRAM to the network card.

Answer: C

Question No : 5 - (Topic 0)

How many address lines does an Intel Xeon processor use, and what is the maximum amount of accessible, addressable memory?

A. 32 address lines; 64GB addressable memory
B. 36 address lines; 4GB addressable memory
C. 36 address lines; 64GB addressable memory
D. 64 address lines; 64GB addressable memory

Answer: C
Explanation:
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\viewkind4\uc1\pard\lang2052\f0\fs17 Advantages of EM64T\par
64-bit allows an installation of up to 16 EB (exabyte) of RAM; however, current Celeron D, Pentium 4, and Xeon CPUs have 36 address lines, which can support 64 GB of RAM , while Xeon DP CPUs can hold up to 1 TB (terabyte)\par
}

Question No : 6 - (Topic 0)

What must you check prior to adding another processor to an existing system. (Select three)

A. amount of memory in the system
B. compatibility of the new process with existing processors
C. firmware requirements for the new processor
D. number of users currently logged into the system
E. number of processors the operating system supports
F. weight of the new processor

Answer: B,C,E

Question No : 7 - (Topic 0)

Which events could require a firmware update? (Select two)

A. downgrading memory
B. re-installing the operating system
C. adding support for larger, faster drives
D. adding virtual machines to a server
E. removing an existing processor
F. adding plug and play support

Answer: C,F

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 177\par
It may be necessary to upgrade the system BIOS or firmware for one or more of the following reasons:\par
To support new hardware or features on the server\par
To correct bugs discovered in the BIOS\par
To fix a security hole in the BIOS\par
To add support for newer or faster processors\par
To add Plug and Play support\par
To add support for larger or faster hard drives\par
To add support for special removable drives, such as LS-120 or ZIP drives\par
}

Question No : 8 - (Topic 0)

Which statements are true about active and passive cooling systems? (Select two)

A. A passive cooling system uses only heat sinks.
B. An active cooling system uses only heat sinks.
C. An active cooling system adds devices such as fans.
D. A passive cooling system adds devices such as fans.

Answer: A,C

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 26\par
A passive cooling system utilizes heat sinks and natural convection. Heat sinks are blocks of metal that absorb heat and have fins or ridges to dissipate the heat.\par
An active cooling system adds mechanical means. Fans are added to blow cooling air across or through the heat sink and other interior parts.\par
}

Question No : 9 - (Topic 0)

In systems with AMD processors, what allows communication between processors and the I/O subsystem?

A. Northbridge
B. Southbridge
C. HyperTransport link
D. APIC
E. QuickPath Interconnect

Answer: C

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 37\par
AMD processors are able to communicate with each other through HyperTransport point-to-point links. This enables one processor to access the memory connected to another processor. Inside the processor, a crossbar switch connects the processor, memory

controller, and HyperTransport links.\par
AMD processors also use HyperTransport links to connect to the I/O subsystem.\par
The links on particular processors are connected to I/O tunnels that support the I/O devices.\par
All other processors can communicate with the I/O system through the HyperTransport links.\par
Legacy devices are also connected to one of the I/O tunnels.\par
}

Question No : 10 - (Topic 0)

Which transfer rate does USB 2.0 support?

A. 32Mb/s
B. 64Mb/s
C. 64Mb/s to 120Mb/s
D. 120Mb/s to 240Mb/s

Answer: D

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 183\par
USB 2.0 extends the capabilities of the interface from 12Mb/s (200 x 56Kb/s) to between 120 and 240Mb/s.\par
}

Question No : 11 - (Topic 0)

Which server provides resolution from the hostname to the IP address?

A. FTP
B. PXE
C. DNS
D. DHCP

Answer: C

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 17\par
Domain Name Server (DNS) ?Provides resolution from hostnames to IP addresses and so forth\par
}

Question No : 12 - (Topic 0)

What are characteristics of a virtual machine instance? (Select three)

A. virtual application
B. virtual storage controller
C. virtual processor
D. virtual operating system
E. virtual drive

Answer: B,C,E

Explanation:
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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 86\par
In a virtual machine environment, a software layer abstracts the physical server hardware and creates one or more virtual machine instances, each with its own virtual drives, virtual network interface controllers (NICs), virtual storage controllers, virtual processors, OS, and application(s). The software abstraction layer is typically referred to as a hypervisor or a virtual machine monitor. An OS that runs in the virtual machine instance is called a guest OS.\par
}

Question No : 13 - (Topic 0)

Which address range of the first octet is assigned to a TCP/IP class C network?

A. 1-64
B. 64-126
C. 128-191

D. 192-223

Answer: D

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 45\par
Class Address range Default Subnet IP address Subnet mask\par
A 1 -126 Network.host.host.host 255.0.0.0\par
B 128 -191 Network.network.host.host 255.255.0.0\par
C 192-223 Network.network.network.host 255.255.255.0\par
}

Question No : 14 - (Topic 0)

Which management protocol can notify you when a fan fails in your server?

A. SMTP
B. DHCP
C. TFTP
D. IPMI

Answer: D

Explanation:

{\rtf1\ansi\ansicpg936\deff0\deflang1033\deflangfe2052{\fonttbl{\f0\fnil\fcharset0 MS Shell Dlg 2;}}
\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 185\par
IPMI is an embedded management specification for servers, storage devices, and other network devices. It defines a common and secure interface for monitoring system voltages, temperature, and fan speeds through the use of embedded monitors. It is designed to directly control system components while permitting remote system management and recovery of failed systems.\par
}

Question No : 15 - (Topic 0)

Which protocols are support in FC-SAN? (Select three)

A. Arbitrated Loop
B. Ethernet
C. Switched Fabric
D. Point to Point
E. CSMA/CD
F. Token Ring

Answer: A,C,D

Explanation:

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\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 15\par
Fibre Channel technology greatly enhances flexibility by providing the following advantages:\par
Multiple topologies (point to point, arbitrated loop, and switched fabric)\par
}

Question No : 16 - (Topic 0)

Which action do you perform after installing the Network Operating System (NOS)?

A. Configure the boot order.
B. Ensure that the latest drivers are installed.
C. Format the hard disk drive.
D. Configure hardware RAID.

Answer: B

Question No : 17 - (Topic 0)

Which switch port type is required to support FC-AL devices in a SAN?

A. U_Port
B. E_Port
C. FL_Port
D. NL_Port

Answer: D

Explanation:

{\rtf1\ansi\ansicpg936\deff0\deflang1033\deflangfe2052{\fonttbl{\f0\fnil\fcharset0 MS Shell Dlg 2;}}
\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 2 - Page 33\par
The arbitrated loop topology permits several devices to share the bandwidth of a single loop of fiber running between them. The FC-AL standard is implemented by modifying an N_port to be an NL_port. Each NL_port is attached to one link. The information flows in one direction around the arbitrated loop.\par
}

Question No : 18 - (Topic 0)

What is the software abstraction layer instance commonly called?

A. guest
B. partition
C. hypervisor
D. mirror

Answer: C

Explanation:
{\rtf1\ansi\ansicpg936\deff0\deflang1033\deflangfe2052{\fonttbl{\f0\fnil\fcharset0 MS Shell Dlg 2;}}
\viewkind4\uc1\pard\lang2052\f0\fs17 Industry Standard Architecture - Student Guide 1 - Page 86\par
The software abstraction layer is typically referred to as a hypervisor or a virtual machine monitor.\par
}

Question No : 19 - (Topic 0)

What contributes to the use of virtualization?

A. the need to conserve space in data centers
B. an abundance of overutilized hardware
C. decreasing IT agility
D. the need for more system administrators

Answer: A