CompTIA

Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1

NEW QUESTION 1
- (Topic 2)
An end user discovered that the touch-screen features on a Windows device have stopped working. Which of the following should a technician check?

A. Performance monitor
B. Tablet/PC settings
C. System configuration
D. Display settings

Answer: B

Explanation:
 If the touch-screen features on a Windows device have stopped working, a technician should check the Tablet/PC settings. The Tablet/PC settings contain options for configuring the touch-screen features on a Windows device. By checking the Tablet/PC settings, the technician can ensure that the touch-screen features are enabled and configured correctly.
If the touch-screen features on a Windows device have stopped working, a technician should check the Tablet/PC settings. The touch-screen settings may have been disabled or there may be a driver issue that needs to be resolved. References: CompTIA A+ Certification Exam Guide, pg. 536

NEW QUESTION 2
- (Topic 2)
A technician is troubleshooting a point-of-sale primer that Is printing blank receipts. Which o(the following should the technician do to resolve the Issue?

A. Verify the correct type of paper is loaded.
B. Install the latest print driver.
C. Check to see if the default printer has been changed.
D. Ensure the printer is connected to power.

Answer: A

Explanation:
 Verifying the correct type of paper is loaded is the best solution for resolving the issue of blank receipts being printed by a point-of-sale printer. Some receipt printers require a specific type of paper, and using the wrong type can result in blank receipts. References: https://www.techwalla.com/articles/what-are-the-causes-of-blank-receipts- from-a-printer
Top of Form
Verify the correct type of paper is loaded. If a point-of-sale printer is printing blank receipts, one possible cause could be that the wrong type of paper is loaded in the printer. Thermal printers require thermal paper to print properly. If regular paper is loaded instead of thermal paper, the printer will not be able to produce an image on the paper and will print blank receipts.

NEW QUESTION 3
- (Topic 2)
A technician is replacing the RAM on an entry-level server with hot-swappabte components. Which of the following should the technician do NEXT?

A. Replace the RAM while the server is at a cool temperature
B. Replace the RAM while the server is running
C. Power down the server completely and then replace the RAM
D. Verify that the OS supports hot swapping the RAM

Answer: D

Explanation:
 Verify that the OS supports hot swapping the RAM. Before replacing the RAM on an entry-level server with hot-swappable components, the technician should verify that the operating system supports hot swapping of RAM.

NEW QUESTION 4
- (Topic 2)
Which of the following is used to implement network security polices for an environment?

A. Managed switch
B. Repeater
C. Firewall
D. Gateway

Answer: C

Explanation:
 It is designed to protect an organization's network infrastructure and data from unauthorized access, while allowing legitimate traffic to pass through. Firewalls can be configured to enforce security policies that block certain types of traffic, limit access to specific network resources, and prevent attacks such as malware and phishing.
A firewall is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules. It establishes a barrier between a trusted internal network and an untrusted external network, such as the Internet. Firewalls are used to implement network security policies for an environment by controlling access to the network and protecting it from unauthorized access.
A firewall is used to implement network security policies. It monitors incoming and outgoing traffic based on predetermined security rules and can block traffic that does not meet the defined criteria. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Chapter 6, page 243)

NEW QUESTION 5
- (Topic 2)
A technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter. The new computer does not have a 9-pin serial port.

Which of the following ports can an adapter be installed on in order to connect to the point-of-sale system?

A. HDMI
B. Bluetooth
C. USB
D. Lightning

Answer: C

Explanation:
A USB to 9-pin serial adapter can be used to connect the new computer to the point-of-sale system using a USB port. USB is a common and versatile port type found on most computers.
If a technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter and the new computer does not have a 9-pin serial port, an adapter can be installed on the USB port in order to connect to the point-of-sale system. A USB-to-serial adapter can be used to connect a serial device to a USB port on a computer.

NEW QUESTION 6
- (Topic 2)
A desktop support technician is tasked with upgrading a laptop so that it has the fastest data access possible. Which of the following BEST satisfies this requirement?

A. mSATASSD
B. M.2NVMeSSD
C. 2.5SATASSD
D. 2.5SASHHD

Answer: B

Explanation:
M.2 NVMe SSD provides the fastest data access possible for a laptop. It is a high-performance solid-state drive that connects directly to the motherboard through an M.2 slot.

NEW QUESTION 7
- (Topic 1)
A user brings an older laptop to the help desk and reports issues with the keyboard. Upon
inspection, the technician does not see any external damage but notices that many keystrokes da not register in a word processor. The laptop works fine when the technician tests it with an external keyboard. Which of the following actions would MOST likely resolve the issue?

A. Disable the sticky keys feature.
B. Clean the keyboard.
C. Reset the BIOS settings to default.
D. Charge the laptop.

Answer: B

Explanation:
The most likely action that would resolve the issue is to clean the keyboard. Sometimes dust, hair, and other debris can affect keyboard functionality. The technician can try to clean the keyboard as much as possible, which may be enough to get the keyboard back in working order

NEW QUESTION 8
- (Topic 1)
An administrator is configuring a corporate-owned smartphone for a new manager. The company requires the ability to wipe the phone's data remotely in the event of loss or theft and the capability to approve applications installed on the phone. Which of the following tools would BEST meet this need?

A. Tethering to a corporate-owned laptop
B. WPA2-Enterprise wireless
C. Corporate enterprise email
D. Mobile device management

Answer: D

Explanation:
Mobile Device Management (MDM) is a software solution that allows companies to manage and secure mobile devices used in the corporate environment. MDM provides features such as remote data wipe, application management, and device security policies to ensure data protection and compliance with company policies. References: CompTIA A+ Certification Exam Objectives 220-1001 - Mobile device hardware and operating systems - 2.8

NEW QUESTION 9
- (Topic 1)
A colleague has a laptop that has been working as expected for several years wall outlet. The MOST likely component that needs to be replaced is the:

A. power adapter.
B. battery.
C. system fan.
D. hard drive.

Answer: B

Explanation:

Based on the information provided in the question, the MOST likely component that needs to be replaced is A. power adapter. If a laptop has been working as expected for several years but suddenly stops working when it is plugged into a wall outlet, it is possible that the power adapter has failed and is no longer able to provide power to the laptop. In this case, replacing the power adapter would likely resolve the issue.

The other components listed in the options (battery, system fan, and hard drive) could also potentially fail and cause issues with a laptop's performance. However, based on the specific scenario described in the question (the laptop suddenly stops working when plugged into a wall outlet), it seems most likely that the issue is related to the power adapter.

If the laptop has been working as expected for several years and suddenly stops working, the power adapter is the most likely component that needs to be replaced. Over time, the power adapter can become worn or damaged, resulting in a loss of power to the laptop. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 3

NEW QUESTION 10
- (Topic 1)
A user contacts the help desk in reference to a failing thumbprint scanner. The user states the scanner was functioning correctly yesterday. Which of the following troubleshooting steps should be performed FIRST after the ticket has been filed?

A. Inquire about possible changes.
B. File a damage report.
C. Requisition a new scanner.
D. Attempt to clean the scanner.

Answer: A

Explanation:
http://www.221021.com/Hardware/input-output-devices/32310.html
* 1. Identify the problem.
Gather information from the user, identify user changes, and, if applicable, perform backups before making changes.
Inquire regarding environmental or infrastructure changes.
* 2. Establish a theory of probable cause (question the obvious).
If necessary, conduct external or internal research based on symptoms.
* 3. Test the theory to determine the cause.
Once the theory is confirmed, determine the next steps to resolve the problem. If the theory is not confirmed, re-establish a new theory or escalate.
* 4. Establish a plan of action to resolve the problem and implement the solution. Refer to the vendor's instructions for guidance.
* 5. Verify full system functionality and, if applicable, implement preventive measures.
* 6. Document the findings, actions, and outcomes.

NEW QUESTION 10
- (Topic 1)
Several users who share a multifunction printer in an office have reported unintended, thin, vertical lines that cover the entire height of every page printed from the printer. Which of the following steps should a technician complete in order to MOST likely resolve this issue?

A. Replace the printer paper with a new ream.
B. Clear the print spooler on each computer.
C. Reinstall the printer driver on each computer
D. Perform the drum-cleaning procedure.

Answer: D

Explanation:
Thin, vertical lines on every printed page are usually caused by a dirty drum or toner cartridge. Performing the drum-cleaning procedure will likely resolve the issue. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 18

NEW QUESTION 13
- (Topic 1)
A company has a dot matrix printer that uses carbon paper. The company reports that the first page is printing too light, although the following pages are still legible. Which of the following MOST likely needs to be fixed?

A. The print drum is worn and loose causing the printing to be light in places
B. The ribbon is low on ink or missing and must be replaced to get proper output
C. The heating element has failed, and a new one needs to be installed for proper transfer
D. The wrong type of filement is loaded, preventing it from sticking correctly
E. The fuser assembly is not calibrated properly, causing it to impact the paper too hard

Answer: B

Explanation:
Dot Matrix printers do not use heat, they use a pin striking an inked ribbon (for the first copy, the subsequent copies are handled by the carbon paper)
The ribbon is low on ink or missing and must be replaced to get proper output in a dot matrix printer that uses carbon paper. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 361

NEW QUESTION 14
- (Topic 1)
An engineer is experiencing unexpected reboots on a graphics workstation when rendering complex 3-D models. The workstation is configured with a 115V power supply that is rated at 200W and connected to a UPS. The central processing unit contains 16 hyperthreaded cores, and a discrete graphics solution utilizing an 8-pin power connector is installed in a PCI Express x16 slot. Which of the following indicates where the technician should begin troubleshooting?

A. The UPS, as 115V is insufficient for the configuration and should be increased to 220V
B. The power supply, as 200W is insufficient when the GPU is heavily tasked
C. The graphics card, as it is the component that triggers the unexpected reboots
D. The motherboard, as only standard PCI slots should be used for high-end graphics cards, not PCI Express slots

Answer: B

Explanation:
The unexpected reboots on a graphics workstation when rendering complex 3-D models may be caused by insufficient power supply. The workstation is configured with a 115V power supply that is rated at 200W, which may not be enough when the GPU is heavily tasked. The technician should begin troubleshooting by checking the power supply.

NEW QUESTION 19
- (Topic 1)
A system administrator has been tasked with allowing SMTP traffic through the system's host-based firewall. Which of the following ports should the administrator enabled?

A. 23
B. 25
C. 80
D. 161

Answer: B

Explanation:
SMTP (Simple Mail Transfer Protocol) uses port 25 to send email messages between servers12.
SMTP uses port 25 to send email messages between mail servers. Therefore, the system administrator should enable port 25 to allow SMTP traffic through the host-based firewall. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 282

NEW QUESTION 22
- (Topic 1)
A user acquired a new workstation and is attempting to open multiple targe Excel files simultaneously. The user is not experiencing the expected performance when executing such large requests. Which of the following should a technician do FIRST?

A. Increase the swap partition.
B. Upgrade the CPU in the workstation.
C. Upgrade the power supply in the workstation.
D. Upgrade the RAM in the workstation.

Answer: D

Explanation:
Opening multiple large Excel files simultaneously requires a large amount of RAM. Upgrading the RAM in the workstation should improve performance.
References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 9

NEW QUESTION 23
- (Topic 1)
An organization is looking to upgrade the processing ability for its computers. Most users report that whenever multiple applications are being utilized, the system's response time slows down drastically. When only one application is open, the response time is acceptable. Which of the following should be upgraded FIRST?

A. SSD
B. CPU
C. HDD
D. RAM

Answer: D

Explanation:
The component that should be upgraded first is the RAM. When multiple applications are being utilized, the system's response time slows down drastically. This is because the computer is running out of memory. Upgrading the RAM will allow the computer to store more data in memory, which will improve performance when multiple applications are being used123.

NEW QUESTION 26
- (Topic 1)
A technician is receiving reports that the entire office sporadically loses network connectivity throughout the day. The technician determines the root cause to be EMI. Which of the cable mediums would be the MOST cost effective without sacrificing system performance?

A. Coaxial
B. Shielded Cat 6
C. Plenum Cat 5e
D. Multimode fiber

Answer: B

Explanation:
Electromagnetic interference (EMI) is unwanted noise or interference in an electrical path or circuit caused by an outside source. Hence shielded Cat 6 is better
If a technician determines that the root cause of sporadic network connectivity issues is EMI, the most cost-effective cable medium that can be used without sacrificing system performance is shielded Cat 6 cable. Shielded cables protect against electromagnetic interference (EMI) and radio frequency interference (RFI).
References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 548)

NEW QUESTION 30
- (Topic 1)

A laptop PC user is reporting issues with the hard drive. A filesystem check shows that all files are accessible and the filesystem is clean. After the check, the PC still issues a hard drive error message. Which of the following is the MOST likely cause of the error?

A. S.M.A.R.T failure
B. IOPS failure
C. DIMM failure
D. RAID failure

Answer: A

Explanation:
If the filesystem check shows that all files are accessible and the filesystem is clean, but a hard drive error message persists, it's possible that the hard drive is experiencing S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) failure. This is a warning system built into hard drives to alert users of potential issues before they become critical. References: CompTIA A+ Certification Exam Core 1 Exam Objectives - 3.3 Given a scenario, troubleshoot mobile device issues

NEW QUESTION 34
- (Topic 1)
A computer that contains critical data has not been backed up and will not boot past a S.M. A. R. T, error that indicates imminent hard disk failure. Which of the following actions should the technician take FIRST?

A. Run diagnostics on the faulty hard drive using a boot disk
B. immediately replace the hard drive generating the SMART error
C. Turn off
D. T, monitoring in the computer's BIOS settings
E. Attempt to boot the operating system in safe mode

Answer: A

Explanation:
The technician should run diagnostics on the faulty hard drive using a boot disk first when a computer that contains critical data has not been backed up and will not boot past a S.M.A.R.T. error that indicates imminent hard disk failure. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 376

NEW QUESTION 38
- (Topic 1)
A user requested upgrades to a company-issued laptop to increase its performance while working with a large database stored on drive C. Which of the following tasks should a systems administrator complete to BEST meet this goal? (Select TWO).

A. Configure RAID 1.
B. Install a hybrid drive.
C. Upgrade to 1GB NIC.
D. Increase the RAM.
E. Migrate to a SSD.
F. Upgrade the power supply.

Answer: DE

Explanation:
To increase the performance of a laptop working with a large database stored on drive C, a systems administrator should increase the RAM and migrate to an SSD. Increasing the RAM will help the laptop to better handle the large database, while migrating to an SSD will improve the speed at which the laptop can access the database. Configuring RAID 1, installing a hybrid drive, upgrading to a 1GB NIC, and upgrading the power supply will not directly improve the laptop's performance when working with a large database. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.1

NEW QUESTION 41
- (Topic 1)
A technician is setting up a new desktop computer and will be installing the hard drive directly on the motherboard without using cables to connect it. Which of the following will the technician be installing?

A. Thunderbolt
B. eSATA
C. M.2
D. SCSI

Answer: C

Explanation:
M.2 is a form factor for solid-state drives (SSDs) that enables direct attachment to the motherboard without the need for cables. Thunderbolt is a high-speed interface that supports data transfer, video output, and charging. eSATA is an external interface for connecting SATA devices. SCSI is an older interface standard for connecting hard drives, printers, and other peripherals.
Installing a hard drive directly on the motherboard without using cables is usually done with an M.2 slot. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 5

NEW QUESTION 46
SIMULATION - (Topic 1)
Laura, a customer, has instructed you to configure her home office wireless access point.
She plans to use the wireless network for finances and has requested that the network be setup with the highest encryption possible.
Additionally, Laura knows that her neighbors have wireless networks and wants to ensure that her network is not being interfered with by the other networks.
She requests that the default settings be changed to the following.
Wireless Name: HomeWiFi Shared Key: CompTIA Router Password: Secure$1

Finally, Laura wants to ensure that only her laptop and Smartphone can connect to the network.
Laptop: IP Address 192.168.1.100 Hardware Address: 00:0A:BF:03:C4:54 Smartphone: IP Address 192.168.1.101 Hardware Address: 09:2C:D0:22:3F:11
INSTRUCTIONS
Configure Laura's wireless network using the network adapter window.
If at any time you would like to bring back the initial state of the situation, please click the Reset All button.

Laura's Wireless Configuration

WIRELESS SETUP   **NETWORK FILTER**   **ADMINISTRATOR TOOLS**

Wireless Network Settings

Enable Wireless:	☑
Wireless Network Name:	HomeWiFi (Also called the SSID)
Wireless Channel:	1 ▼
Disable SSID Broadcast:	☐
802.11g Only Mode:	☐

Wireless Security Mode

Security Mode:	Enable WPA2 Wireless Security (enhanced) ▼

WPA2

Passphrase:	CompTIA
Confirmed Passphrase:	CompTIA

Laura's House

Wireless Network Name: Default
Security Mode: Open
Wireless Channel: 11

Wireless Network Name: MyWi
Security Mode: WEP
Wireless Channel: 6

Wireless Network Name: PatsWiFi
Security Mode: WEP
Wireless Channel: 11

Laura's Wireless Configuration

WIRELESS SETUP   **NETWORK FILTER**   **ADMINISTRATOR TOOLS**

Please enter the same password into both boxes for confirmation.

Password:	
Verify Password:	

Laura's Wireless Configuration

WIRELESS SETUP   **NETWORK FILTER**   **ADMINISTRATOR TOOLS**

Wireless Network Settings

Enable Wireless:	☐
Wireless Network Name:	default (Also called the SSID)
Wireless Channel:	6 ▼
Disable SSID Broadcast:	☐
802.11g Only Mode:	☐

Wireless Security Mode

Security Mode:	Disable Wireless Security (not recommended) ▼

Laura's Wireless Configuration

| WIRELESS SETUP | NETWORK FILTER | ADMINISTRATOR TOOLS |

Turn MAC Filtering ON: ☐

Allow the following MAC Addresses ▼

☐
☐
☐
☐
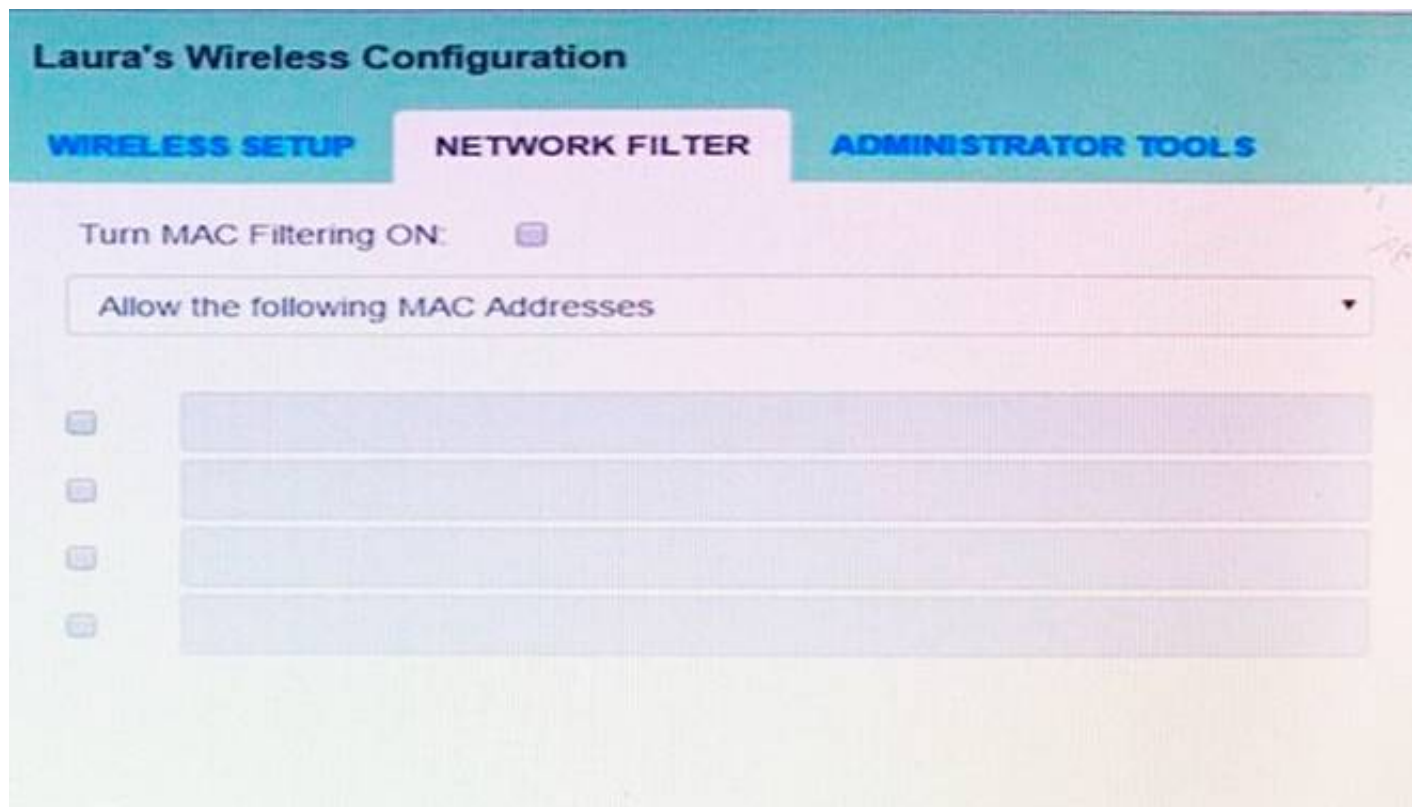
A. Mastered
B. Not Mastered

Answer: A

Explanation:
solution as

Wireless Configuration ✕

| Wireless Setup | Network Filter | Administrator Tools |

WIRELESS NETWORK SETTINGS:

Enable Wireless: ☑

Wireless Network Name: | HomeWiFi | (Also called the SSID)

Wireless Channel: | 1 | ▼

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

WIRELESS SECURITY MODE:

Security Mode: | Enable WPA2 Wireless Security (enhanced) | ▼

WPA2:

Passphrase: | CompTIA |

Confirmed Passphrase: | CompTIA |

[Save Settings]

Wireless Configuration

Wireless Setup	Network Filter	Administrator Tools

☑ **Turn MAC Filtering ON**

Allow the following MAC Addresses ▼

MAC Address

☑ 00:0A:BF:03:C4:54

☑ 09:2C:D0:22:3F:11

☐

☐

Save Settings

Wireless Configuration

| Wireless Setup | Network Filter | **Administrator Tools** |

ADMIN PASSWORD

Please enter the same password into both boxes for confirmation.

Password: `Secure$1`

Verify Password: `Secure$1`

Save Settings

NEW QUESTION 48
- (Topic 1)
A technician powers on a PC and its monitor and sees the following error message: No input signal detected
The display lights on the computer are on. Which of the following is a possible solution?

A. Changing the BIOS settings
B. Changing the connector setting on the monitor
C. Checking the power plug on the monitor
D. Checking the power plug on the PC

Answer: B

Explanation:
 Changing the connector setting on the monitor is a possible solution for a PC and its monitor that display the error message "No input signal detected". This error can be caused by an incorrect input selected on the monitor, so changing the connector setting to the correct input should resolve the issue. References: CompTIA A+ Certification Exam Objectives 1001, 1.10
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NEW QUESTION 51
- (Topic 1)
A company just bought a printer capable of automatically printing on both sides of the paper After installation, however, the technician can only print on both sides of the paper manually. Which of the following should the technician do to fix the issue?

A. Install the most recent firmware upgrade available for the printer.
B. Contact the vendor for a hardware replacement.
C. Reinstall the printer software and drivers, and then restart the printer.
D. Read the installation manual and configure duplex settings.

Answer: D

Explanation:
 The issue described in the question is most likely due to an incorrect configuration of the printer's duplex settings. To enable automatic duplex printing, the

technician needs to read the printer's installation manual to understand how to configure the printer's duplex settings correctly. Once the settings are configured, the printer should be able to print on both sides of the paper automatically.

To fix the issue of a newly installed printer capable of automatically printing on both sides of the paper but only printing on both sides manually, the technician should read the installation manual and configure duplex settings. Duplex printing settings can be configured in the printer driver software, which can be accessed through the printer settings in the Control Panel. Installing the most recent firmware upgrade available for the printer, contacting the vendor for a hardware replacement, or reinstalling the printer software and drivers and restarting the printer will not resolve the issue.

NEW QUESTION 54
- (Topic 1)
A user's mobile phone gets really hot to the touch and does not retain a charge. The user also reports that the phone is very slow, especially while charging. Which of the following is MOST likely causing these symptoms?

A. Broken charging port
B. Digitizer failure
C. CPU overheating
D. Defective battery

Answer: D

Explanation:
A defective battery is the most likely cause of a mobile phone that gets really hot to the touch, does not retain a charge, and is slow while charging. A defective battery can cause the phone to overheat and may also cause performance issues. References: CompTIA A+ Certification Exam Objectives 1001, 2.14

NEW QUESTION 57
- (Topic 1)
A technician is upgrading a faulty motherboard that was ordered by an end user for an old, high-end desktop computer. However, the technician is unable to install the CPU into the socket. Upon closer inspection, the technician notices the pins on the CPU do not line up with the socket. Which of the following would be the best course of action for the technician to take NEXT?

A. Try to set as many pins as possible.
B. Install an adaptor to create a universal socket.
C. Verify the socket type and manufacturer.
D. Find a compatible motherboard for the CPU.

Answer: C

Explanation:
In this situation, the best course of action for the technician to take NEXT would be C. Verify the socket type and manufacturer. If the pins on the CPU do not line up with the socket on the motherboard, it is likely that there is a compatibility issue between the two components. The technician should verify that the socket type and manufacturer of the motherboard match those of the CPU to ensure that they are compatible.

NEW QUESTION 60
- (Topic 1)
An online retailer wants to save money and is considering migrating to the public cloud so peak is over. Which of the following BEST describes this aspect of cloud computing?

A. Rapid elasticity
B. Metered utilization
C. Shared resources
D. High availability

Answer: A

Explanation:
Rapid elasticity is only suitable for a domain whose resource requirements suddenly up and down for a specific time interval. Referring to the question the online retailer wants to migrate to public cloud services during peak season, then wants it to be removed "automatically" when the peak is over.

NEW QUESTION 62
- (Topic 1)
A customer reports that a computer is never able to reach more than a 100Mbps transfer data rate, even when using a Gigabit LAN card. While troubleshooting, the technician notices the network cable needs to be replaced. Which of the following cable categories is limiting the transfer speed?

A. Cat 5
B. Cat 5e
C. Cat 6
D. Cat 6a

Answer: A

Explanation:
Cat 5 cable is limited to a maximum data transfer rate of 100Mbps, while Cat 5e, Cat 6, and Cat 6a cables support Gigabit Ethernet (1000Mbps) and higher speeds. Even though the LAN card is capable of Gigabit speeds, it cannot achieve that speed when using a Cat 5 cable. Upgrading to a Cat 5e or higher cable would allow the computer to achieve Gigabit speeds. References: CompTIA A+ Certification Exam: Core 1 - Page 196

NEW QUESTION 66
- (Topic 1)
A technician receives several error alerts on a server after an unexpected reboot. A message states that one or more disks are in a degraded state. When the technician advances to the next error message, it indicates the OS is missing. Which of the following are the MOST likely causes of these errors? (Choose two.)

A. Missing drives in the OS
B. RAID failure
C. Bootable device not found
D. Data loss
E. Controller failure
F. CMOS corruption
G. TPM malfunction

Answer: BC

Explanation:
The message stating that one or more disks are in a degraded state is a clear indication of a RAID failure. RAID stands for Redundant Array of Independent Disks, and it is a technology used to provide fault tolerance and improve performance by combining multiple hard drives into a single logical unit.
The message indicating that the OS is missing is most likely caused by a bootable device not found. This means that the server is unable to boot from the designated boot device, which could be the hard drive, a CD/DVD drive, or a USB flash drive. This could be caused by a faulty boot device, a loose cable, or a misconfiguration in the BIOS or UEFI settings.

NEW QUESTION 67
- (Topic 1)
A user visits the desk to report that a smartphone takes more than a day to fully charge. The user has already tested multiple wall outlets and swapped the charging cable, but the results are the same. Which of the following should the technician do FIRST?

A. Verify the power rating of the charger.
B. Ensure all unnecessary connectivity features are disabled.
C. Check that all missing smartphone OS updates are applied.
D. Complete a factory reset of the phone

Answer: A

Explanation:
A smartphone that takes more than a day to fully charge may be due to a charger that is not powerful enough. The technician should verify that the charger is rated for the smartphone's battery capacity and that it is providing the correct voltage and amperage123.

NEW QUESTION 71
- (Topic 1)
A company wants to use client-side visualization for application testing. Which of the following configurations would BEST support this goal?
A)

CPU 2.5GHz - 4 cores
16GB DDR4 RAM
1TB SSD

B)

CPU 3.2GHz - 1 core
16GB DDR4 RAM
4TB SSD

C)

CPU 2.5GHz - 2 cores
16GB DDR4 RAM
4x 1TB HDD RAID 5

D)

CPU 3.2GHz - 4 cores
8GB DDR4 RAM
500GB HDD

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 75
- (Topic 1)
Which of the following would an administrator use to migrate virtual machines from on premises to the cloud?

A. IaaS
B. SaaS
C. DBaaS
D. DRaaS

Answer: A

Explanation:
An administrator would use Infrastructure as a Service (IaaS) to migrate virtual machines from on-premises to the cloud. IaaS is a cloud computing service that provides virtualized computing resources, such as servers, storage, and networking, that can be used to deploy and run applications in the cloud. By using IaaS, an administrator can create a virtual machine in the cloud and migrate the existing virtual machine from on-premises to the cloud. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.3

NEW QUESTION 76
- (Topic 1)
A technician is upgrading a legacy wireless router for a home user. After installing the new router and configuring the SSID to be the same, none of the devices will connect to the network. Which of the following should the technician check NEXT?

A. OHCP pool configuration
B. MAC filtering list
C. Wireless protocol settings
D. ONS servers

Answer: B

Explanation:
The technician should check the MAC filtering list next as the new router may have a different MAC address than the old router. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 332

NEW QUESTION 81
- (Topic 1)
A technician needs to recommend an internet connection for a customer who travels around the world and wants to have connectivity while visiting remote camping locations. Some of the locations the customer visits have limited or unreliable cellular service. Which of the following connection types should the technician recommend?

A. Satellite
B. DSL
C. Fiber
D. Hotspot

Answer: A

Explanation:
The connection type that the technician should recommend is Satellite. Satellite internet is a good option for people who travel around the world and want to have connectivity while visiting remote camping locations. It works by using terminals which can give you internet access in remote locations as long as they have a line of sight to the satellite in orbit above12.
Since the customer travels to remote camping locations with limited or unreliable cellular service, the best recommendation is satellite internet connection. Satellite internet uses a dish to connect to satellites orbiting the earth, which can provide coverage anywhere in the world as long as there is a clear line of sight to the satellite. This is especially useful in remote areas where traditional terrestrial connections are not available. References: CompTIA A+ Certification Exam Objectives - 220-1001: 1.6 Given a scenario, evaluate connection type and bandwidth.

NEW QUESTION 86
- (Topic 1)
A technician needs to install a cost-effective storage device into a rackmount server that will be used as a VM host. This storage will be used for all VMs that run from the server. Which of the following should be used?

A. Optical disk drive
B. eMMC storage device
C. 15,000rpm drive
D. RAID 10 array

Answer: D

Explanation:
RAID 10 array is often used for server virtualization as it provides both redundancy and performance benefits. It uses a combination of mirroring and striping to provide both fault tolerance and improved I/O performance. An optical disk drive or eMMC storage device would not provide enough storage or performance for a VM host server, while a 15,000rpm drive may provide good performance but would not provide redundancy for fault tolerance. Therefore, a RAID 10 array is the best option for cost-effective storage that will be used for all VMs that run from the server.

NEW QUESTION 89
- (Topic 1)
A technician needs to add storage to a workstation. The workstation does not have room to add any internal storage, so the technician plans to add an external storage device. Which of the following connection types should the technician MOST likely use?

A. SCSI
B. eSATA
C. PCIe
D. NVMe

Answer: B

Explanation:
 eSATA is the best choice for adding external storage as it offers a fast transfer rate and is specifically designed for external storage devices. SCSI is an older interface that is rarely used today, PCIe is typically used to add expansion cards to a computer, and NVMe is a newer interface for high-speed solid-state storage, but it is typically used for internal storage devices.

NEW QUESTION 90
- (Topic 1)
Which of the following components enables the input on a mobile device's touch screen?

A. OLED
B. Digitizer
C. Inverter
D. CMOS sensor

Answer: B

Explanation:
 The digitizer is the component that enables input on a mobile device's touch screen. It is a transparent layer that sits over the screen and detects the location of touch inputs. OLED (Organic Light Emitting Diode) is a type of display technology. Inverter is a component used in older LCD displays to provide power to the backlight. CMOS (Complementary Metal-Oxide-Semiconductor) sensor is a type of image sensor used in digital cameras and smartphones to capture images.
References: CompTIA A+ Certification Exam: Core 1 - Page 177

NEW QUESTION 92
- (Topic 2)
A technician is installing new power supplies for the application engineering team's workstations. The management team has not yet made a decision about installing dual graphics cards, but they want to proceed with the project anyway. Which of the following power supplies would provide the BEST solution?

A. 1000W 24-pin modular power supply
B. 220VAC 9000J surge protector
C. 500W redundant power supply
D. 2000VA uninterruptible power supply

Answer: A

Explanation:
 A 1000W 24-pin modular power supply provides enough power to support a dual graphics card configuration, which requires a significant amount of power. A modular power supply allows the technician to connect only the cables that are necessary for the current configuration, reducing cable clutter and improving airflow inside the case. This makes it easier to install and maintain the power supply.

NEW QUESTION 94
- (Topic 2)
A technician is implementing a SOHO wireless solution with three access points. Which of the following actions would avoid high latency?

A. Enabling and configuring a 5GHz antenna
B. Configuring separate IP ranges
C. Enabling multiple SSIDs
D. Configuring all devices with different channels

Answer: D

Explanation:
 If a technician is implementing a SOHO wireless solution with three access points and wants to avoid high latency, the technician should configure all devices with different channels. By configuring all devices with different channels, the technician can ensure that the wireless signals from each access point do not interfere with each other, which can cause high latency.

NEW QUESTION 97
- (Topic 2)
A user is unable to access the internet on a PC. A technician examines the PC and runs the following commands:

```
ipconfig /all
ping 8.8.8.8
ping comptia.org
```

Which of the following steps in the troubleshooting process does this series of commands represent?

A. Establish a theory.
B. Verify full system functionality.
C. Establish a plan of action.
D. Identify the problem.

Answer: B

NEW QUESTION 100
- (Topic 2)

Which of the following wireless technologies has the MOST range and wireless throughput?

A. 802.11ac
B. 802.11ax
C. 802. 11b/gin
D. 802.11g

Answer: B

Explanation:
802.11ax, also known as Wi-Fi 6, has the longest range and the highest wireless throughput of all the wireless technologies listed. References: CompTIA A+ Certification Exam Guide, 220-1001, Chapter 3

NEW QUESTION 102
- (Topic 2)
A help desk technician thinks a desktop PC has failed due to a defective power supply. Which of the following steps should the technician take NEXT?

A. Inquire about environmental or infrastructure changes.
B. Conduct external or internal research based on symptoms.
C. Establish a plan of action to resolve the problem and implement the solution.
D. Document the findings, actions, and outcomes.

Answer: C

Explanation:
Once the technician has determined that the power supply is likely to be defective, they should establish a plan of action to resolve the problem. This may include replacing the power supply or further testing to confirm that it is indeed defective. After establishing a plan of action, the technician should implement the solution and verify that it has resolved the issue.

NEW QUESTION 105
- (Topic 2)
A technician needs to install a printer on the network. Which of the following must the technician configure? (Select THREE).

A. PCL
B. Dots per inch
C. Gateway
D. Subnet mask
E. MAC address
F. MB
G. IP address
H. Drivers

Answer: CDG

Explanation:
When installing a printer on a network, the technician needs to configure the
network settings, which include the IP address, subnet mask, and gateway. These settings are used to ensure that the printer can communicate with other devices on the network. When installing a printer on a network, the technician must configure the network settings of the printer to ensure that it can communicate with other devices on the network. This includes configuring the gateway, subnet mask and IP address of the printer.
The gateway is the device that connects the local network to other networks or the Internet. The subnet mask is used to determine which part of an IP address represents the network and which part represents individual hosts on that network. The IP address is a unique identifier for each device on a network.

NEW QUESTION 106
- (Topic 2)
A network technician has been tasked with creating a patch cable. The RJ45 connectors will not slay attached to the cable. Which of the following tools Is needed to fix this Issue?

A. Cable tester
B. Crimper
C. Punchdown tool
D. Loopback plug

Answer: B

Explanation:
A crimper is a tool that is used to crimp (attach) an RJ45 connector onto the end of a patch cable. The crimper applies pressure to the connector to make a permanent connection between the connector and the cable, ensuring that the connector will stay attached to the cable.
A cable tester is used to test the connectivity of a network cable. A punchdown tool is used to terminate network cables in a patch panel or keystone jack. A loopback plug is a diagnostic tool that is used to test network interfaces by simulating network traffic. Reference: CompTIA A+ Core 1 Exam Guide, page 92.

NEW QUESTION 108
- (Topic 2)
A technician recently discovered me root cause of an application error that several users have been experiencing. The technician updated the configurations on the affected
machines and verified full functionality was restored for all users, which of the following actions should the technician perform NEXT?

A. Write a knowledge base article in the ticketing software to expedite future Incidents.
B. Submit a bug report to the developer of the application, along with the steps taken to resolve the Issue.
C. Work with the developer to proactively collect the application logs to identify future errors of this type.

D. Send an email communication to the company about the issue and the steps taken to resolve it.

Answer: A

Explanation:
CompTIA 6-Step Troubleshooting Process:
* 1. Identify the problem.
* 2. Establish a theory of probably cause. (Question the obvious)
* 3. Test the theory to determine cause.
* 4. Establish a plan of action to resolve the problem and implement the solution.
* 5. Verify full system functionality and if applicable implement preventative measures.
* 6. Document findings, actions, and outcomes.
Writing a knowledge base article in the ticketing software would help document the root cause of the application error and the steps taken to resolve it, which can help other technicians resolve similar issues in the future. This is an example of knowledge management best practices. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition, Chapter 6

NEW QUESTION 109
- (Topic 2)
A technician is replacing a ribbon on a printer that produces faded text and Images when priming. Which of the following types of primers is the technician working on?

A. Impact
B. Inkjet
C. Laser
D. Thermal

Answer: A

Explanation:
An impact printer is a type of printer that uses a ribbon to produce text and images on paper. If an impact printer is producing faded text and images when printing, it could be due to a worn-out ribbon that needs to be replaced. The technician would need to replace the ribbon on the impact printer to resolve the issue.
A ribbon is a consumable component used in impact printers that uses a cloth or plastic strip coated with ink to produce text and images on paper. Examples of impact printers include dot matrix printers and line printers. References: Study Guide Section 4.6 - Printer technologies

NEW QUESTION 112
- (Topic 2)
A technician wants to deploy a .msl package lo a corporate network. The technician needs
to verily the application deployment will not affect other legacy applications on the end users' computers. Which of the following would the technician consider the MOST appropriate for this situation?

A. Virtual network
B. Application virtualization
C. Cross-platform virtualization
D. Virtual sandbox
E. Virtual desktop

Answer: B

Explanation:
The most appropriate solution for the technician to consider in this situation is Application virtualization. Application virtualization is a technology that allows applications to run in a virtual environment, which isolates them from the underlying operating system and other applications. This ensures that the application deployment will not affect other legacy applications on the end users' computers1.

NEW QUESTION 113
- (Topic 2)
Which of the following cables replaced the Apple 30-pin connector and is also reversible?

A. USB-C
B. Lightning
C. miniUSB
D. DisplayPort

Answer: B

Explanation:
Lightning Connector: Apple introduced this brand-new connector back in 2012. It is over 80% smaller than the 30-pin connector and is reversible.
https://www.cablewholesale.com/support/technical_articles/whats_your_port.php#:~:text=Lightning%20Connector%3A%20Apple%20introduced%20this,pin%20connector%20and%2 0is%20reversible.

NEW QUESTION 116
- (Topic 2)
Which of the following network types would be used in a server room to connect virtual servers lo high-speed storage?

A. WAN
B. PAN
C. MAN
D. SAN

Answer: D

Explanation:

A Storage Area Network (SAN) is a dedicated, high-speed network that connects servers to data storage devices. SANs are used in server rooms to provide high-speed storage access to virtual servers.

NEW QUESTION 121
- (Topic 2)
A user reports a cell phone is getting hot. Which of the following are MOST likely to be possible causes? (Select THREE).

A. Using the device as a Wi-Fi hotspot
B. A cracked screen
C. A failing battery
D. Less than 15% free storage space on the phone
E. Privileged control
F. Recurring prompts to install OS updates
G. Granting too many application camera permissions
H. Too many open applications

Answer: ACH

Explanation:

Using the device as a Wi-Fi hotspot, a failing battery, and too many open applications are the most likely causes of the cell phone getting hot. These actions require the phone to use more power and processing, causing it to heat up.

NEW QUESTION 124
- (Topic 2)
A technician is inspecting a projector that is displaying fuzzy images. Which of the following actions would provide the BEST solution?

A. Adjusting the lens
B. Changing the filter
C. Replacing the video cable
D. Reseating the lamp

Answer: A

Explanation:

Adjusting the lens is the best solution to improve image quality in a projector. The lens can become misaligned over time or during transportation, causing the image to appear fuzzy.

NEW QUESTION 125
- (Topic 2)
Which of the following is the PRIMARY security concern with virtual machine escape?

A. Cross-site scripting
B. Compromising the hypervisor
C. Overutilization of resources
D. Rogue virtual machines installed on the hypervisor

Answer: B

Explanation:

The primary security concern with virtual machine escape is compromising the hypervisor, which can allow attackers to gain access to other virtual machines or the host system. Virtual machine escape refers to an attack that allows a guest virtual machine to break out of its isolated environment and access other parts of the system.

NEW QUESTION 128
- (Topic 2)
A user reports limited or no connectivity on a laptop. A technician runs ipconf ig /all with the following result:

```
IPv4 connectivity...limited or none
IPv4 address...169.254.254.1
subnet mask...255.255.0.0
default gateway...
```

Which of the following is the MOST likely cause of this issue?

A. DHCP failure
B. ARP cache
C. DNS resolution
D. Duplicate IP address

Answer: A

NEW QUESTION 130

- (Topic 2)
Which of the following allows a switch to be divided into separate logical networks?

A. VLAN
B. SSL VPN
C. NAT
D. RADIUS

Answer: A

Explanation:

A Virtual LAN (VLAN) is a network topology that allows a switch to be divided into separate logical networks. This allows for the creation of multiple broadcast domains within a single physical network, improving network segmentation and security. With VLANs, you can segment your network so that different departments, applications, or users are isolated from each other, improving network security and performance.

NEW QUESTION 133
- (Topic 2)
Which of the following would MOST likely be used to connect one or more devices lo the internet in a SOHO?

A. Hub
B. Ethernet gateway
C. Wireless access point
D. Router

Answer: D

Explanation:

A router is a device that connects one or more networks, such as a home or small office network, to the internet. It allows multiple devices to share a single internet connection and provides network address translation (NAT) to enable communication between the devices on the local network and the internet. A hub, Ethernet gateway, or wireless access point does not provide this functionality.
A router is the most likely device to be used to connect one or more devices to the internet in a SOHO. A router can provide network address translation (NAT), firewall protection, and other features that are important for securing and managing a network. References: CompTIA A+ Certification Exam Guide, pg. 355

NEW QUESTION 136
- (Topic 2)
A user is unable to plug a USB 3.0 device into a USB port. Upon inspection, a technician notices the USB 3.0 port appears to be slightly smaller than the other connections. Which of the following Is the MOST likely cause?

A. A foreign object Is stuck Inside the port
B. The cable connection utilized the wrong orientation.
C. The USB cable is physically damaged.
D. The USB port belongs to a different form factor.

Answer: D

Explanation:

USB 3.0 ports are slightly smaller than other USB connections, so if the port appears to be the wrong size, it is likely that the port belongs to a different form factor. This can be caused by a number of factors, such as the device being too old to support USB 3.0, or the device not having a USB 3.0 port in the first place.

NEW QUESTION 138
- (Topic 2)
A technician responds to a help desk ticket that indicates a user's workstation is not booting. The technician initially suspects a failed hard drive. The technician performs diagnostics and confirms the hard drive is fully operational.
Which of the following steps should the technician complete NEXT?

A. Reinstall the operating system.
B. Configure a new RAID array.
C. Report the status of the drive and close the ticket.
D. Consider another possible cause of the issue.
E. Restore the latest backup of the system.

Answer: D

Explanation:

Since the hard drive appears to be functioning normally, the technician should investigate other potential causes of the issue. This could include checking the BIOS settings, verifying the connections to the hard drive, and testing the RAM. Once these steps have been completed, the technician can then take the necessary steps to resolve the issue.

NEW QUESTION 143
- (Topic 2)
Vertical streaks are appearing on the output of a laser printer. Which of the following items is the MOST likely cause?

A. Roller
B. Drum
C. Transfer belt
D. Ribbon

Answer: B

Explanation:
Vertical or horizontal lines—Marks that appear in the same place (referred to as repetitive defects) are often due to dirty feed rollers (note that there are rollers in the toner cartridge and fuser unit too) or a damaged or dirty photosensitive drum.
Vertical streaks on a laser printer output are usually caused by a damaged or worn-out drum, which is responsible for transferring toner to the paper. If the drum is damaged, toner may accumulate on certain parts of the drum, leading to streaks on the printed output. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition, Chapter 15

NEW QUESTION 145
- (Topic 2)
A technician installs a new printer for a workstation and tries to print a test page, but the page does not print. The technician looks at the print queue and notices that the printer is called 'Generic Printer." Which of the following BEST describes what the technician should
do to fix this issue?

A. Connect the printer with a USB cable rather than over the network.
B. Install the appropriate printer drivers for the OS.
C. Install the correct toner in the printer.
D. Set the printer trays to allow duplex printing

Answer: B

Explanation:
 The technician should install the appropriate printer drivers for the OS to enable the computer to communicate with the printer. The generic printer name suggests that the drivers are missing or not installed correctly.

NEW QUESTION 148
- (Topic 2)
A new employee has been issued a company laptop. The employee requests an accessory with a single power source that has wired network connectivity and supports a keyboard, mouse, speakers, and dual monitors. Which of the following accessories should the systems administrator deploy to BEST meet the new user's needs?

A. Poe switch
B. USB-C hub with power delivery
C. Docking station with DisplayPort
D. KVM switch with audio

Answer: C

Explanation:
 A docking station is a hardware accessory that allows laptops to connect to multiple peripherals and devices with a single connection. A docking station with DisplayPort would provide the necessary connectivity for the dual monitors, and it can also support the required peripherals such as the keyboard, mouse, and speakers. In addition, it will provide a wired network connectivity for faster and more reliable network access.

NEW QUESTION 153
- (Topic 2)
The IT department issued a corporate smartphone to a user, but the user returned the device stating it had connectivity Issues. The user claimed the device functioned on WI-FI but all connectivity to cloud services was lost as soon as the device was taken off site. Which of the following issues was MOST likely affecting the device?

A. MDM was never properly set up on the device.
B. S/MIME certificates were corrupted and needed to be reloaded.
C. Bluetooth on the device was disabled by mistake.
D. The device never had a proper SIM card installed.

Answer: D

Explanation:
 A SIM card is needed for the device to use cellular network services, so without it, the device will be unable to connect to the cloud services when taken off site. MDM (Mobile Device Management) can be used to manage settings and access on a device, but it is not necessary for the device to be able to use cloud services. S/MIME (Secure/Multipurpose Internet Mail Extensions) certificates are used to encrypt and digitally sign emails, and are not related to device connectivity. Bluetooth can be used to connect devices together, but it is not necessary for the device to be able to use cloud services.

NEW QUESTION 158
- (Topic 3)
A technician needs to configure a printer for network communications Which of the following must the technician configure? (Select THREE).

A. PCL
B. Dots per Inch
C. Gateway
D. Subnet mask
E. MAC address
F. IMEI
G. IP address
H. Drivers

Answer: CDG

Explanation:
 To configure a printer for network communications, the technician must configure its network settings, such as gateway, subnet mask, and IP address. The gateway is the IP address of the router or device that connects the printer to other networks or the internet. The subnet mask is a value that defines which part of

the IP address identifies the network and which part identifies the host or device on that network. The IP address is a unique identifier that allows the printer to communicate with other devices.

NEW QUESTION 160
- (Topic 3)
Which of the following wireless technologies is used by mobile devices to process payments at kiosks?

A. Wi-Fi 6
B. Bluetooth
C. NFC
D. RFID

Answer: C

Explanation:

 NFC stands for near-field communication, which is a wireless technology that allows two devices to exchange data when they are in close proximity (usually within a few centimeters). NFC is commonly used by mobile devices to process payments at kiosks, such as Apple Pay or Google Pay. Wi-Fi 6 is a wireless standard that provides faster speed and lower latency than previous versions of Wi-Fi. Bluetooth is a wireless technology that allows devices to communicate over short distances (usually within 10 meters). RFID stands for radio-frequency identification, which is a wireless technology that uses radio waves to identify and track objects that have RFID tags attached to them

NEW QUESTION 161
HOTSPOT - (Topic 3)
A customer has contacted you about building two new desktops. The first desktop will be a gaming workstation. The customer requirements include:
Playing the newest games at a high frame rate Fast game load times
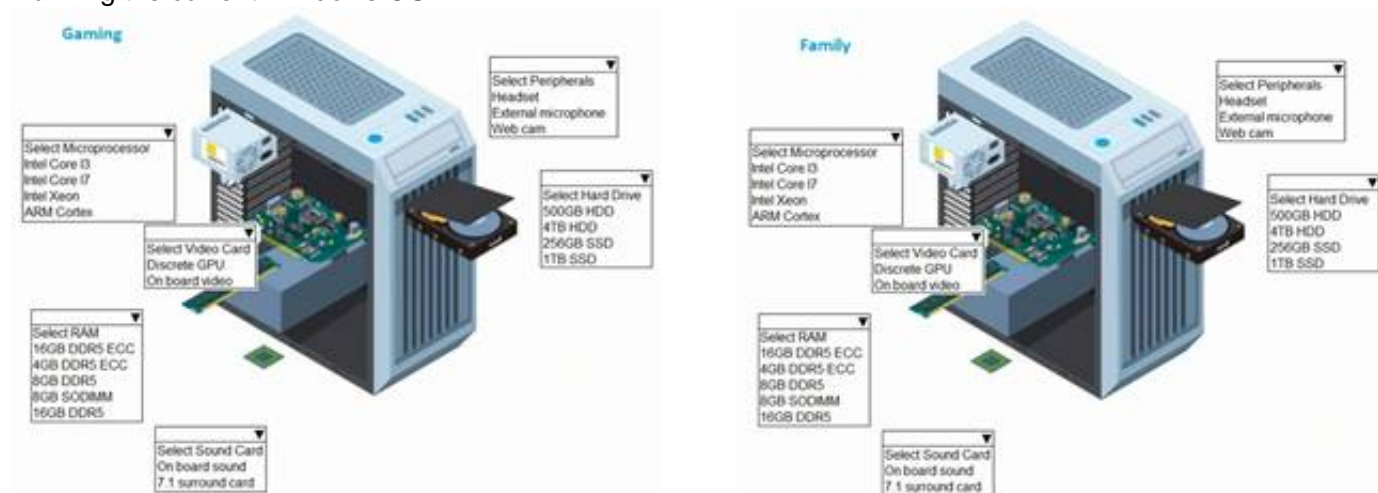Enough storage to have several games installed at once High-end audio
No concern about cost
Running the current Windows OS
The second workstation will be a family workstation. The requirements include: Capability for word processing, videoconferencing, and basic web surfing Minimal cost, as long as it meets the requirements
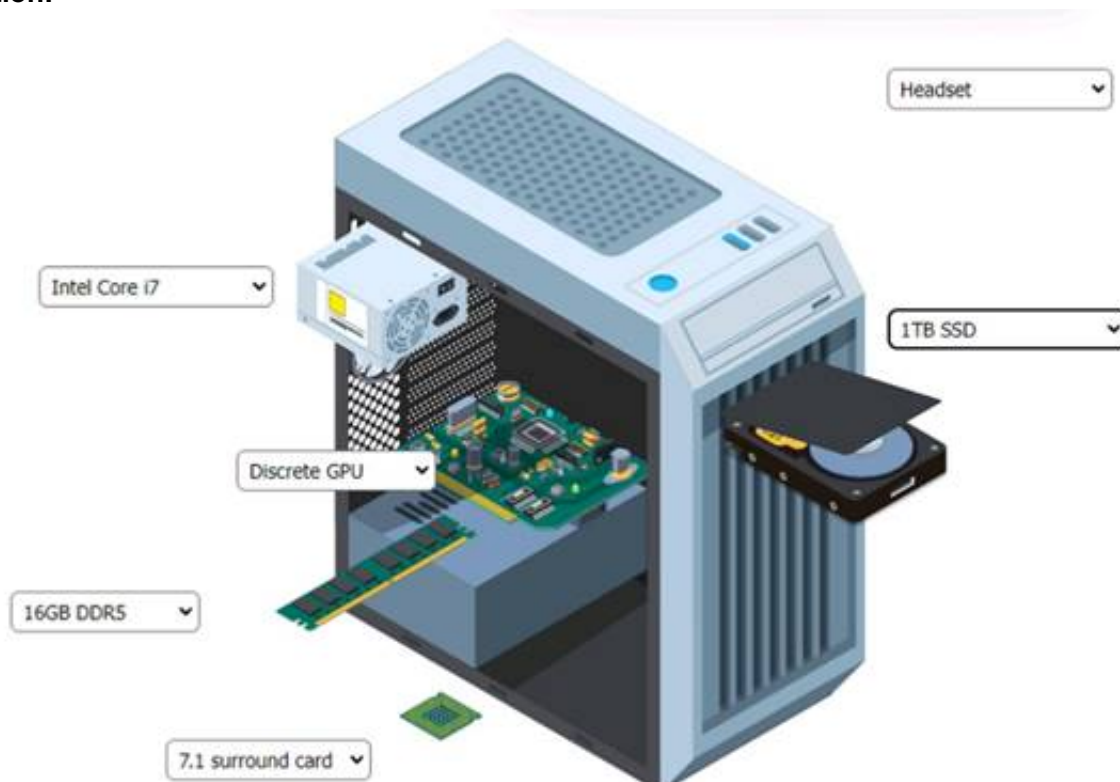Running the current Windows OS

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 166
- (Topic 3)
A technician recently received a written warning for causing a system-wide outage. The outage was a result of an unscheduled patch being manually pushed during production hours. Which of the following could have MOST likely prevented the technician from receiving the warning?

A. Following corporate procedures
B. Testing before deployment
C. Documenting the findings
D. Establishing a plan of action

Answer: A

Explanation:
Following corporate procedures would have been the most likely factor that could have prevented the technician from receiving the written warning. Following established procedures, such as change management, helps ensure that changes made to the production environment are thoroughly tested, approved, and implemented in a controlled and safe manner, reducing the risk of system-wide outages and other unintended consequences.

NEW QUESTION 168
- (Topic 3)
Atechnician is replacing all RJ45 cables in a customer environment. Which of the following are the BEST tools to execute the task? (Select TWO).

A. Optical fiber tester
B. Scissors
C. Cable tester
D. Crimper
E. Coaxial cable
F. Screwdriver

Answer: CD

Explanation:
A cable tester and a crimper are the best tools to execute the task of replacing all RJ45 cables in a customer environment. A cable tester can be used to check the continuity and quality of a cable, and a crimper can be used to attach RJ45 connectors to the ends of a cable. An optical fiber tester is a tool that can be used to test fiber optic cables, which are not RJ45 cables. Scissors are not a tool for replacing cables, but for cutting them. A coaxial cable is a type of cable that has a single copper conductor at its center, which is not an RJ45 cable either. A screwdriver is not a tool for replacing cables, but for fastening or loosening screws.

NEW QUESTION 170
- (Topic 3)
Which of the following connectors can be plugged into a Thunderbolt 3 port on a laptop?

A. miniUSB
B. microUS3
C. USB-A
D. USB-C

Answer: C

Explanation:
Thunderbolt 3 is a USB-C port, so any device with a USB-C connector can be plugged into it. MiniUSB, microUSB and USB-A are not compatible with Thunderbolt 3.

NEW QUESTION 173
- (Topic 3)
A field technician for an airport receives a support ticket that states customers are having issues viewing a screen that displays information about departing flights. While checking the case history, the technician sees that all flight information screens were recently moved when the terminal gates were remodeled. Which of the following actions should the technician perform after verifying the screen has power?

A. Ensure the input connections to the screen are secure.
B. Swap cables with a screen that works.
C. Check to see if the device outputting the data is turned on.
D. Determine if the screen is compatible with the output device.

Answer: A

Explanation:
The technician should ensure the input connections to the screen are secure 1. The screen may not be receiving the signal from the device outputting the data if the input connections are not secure1. Swapping cables with a screen that works is not likely to be the correct option1

NEW QUESTION 177
- (Topic 3)
A technician connects a new computer to the internet and then opens the wiring closet. Even though all of the wires are terminated, nothing in the wring closet is labeled. Which of the following tools should the technician use to complete the task?

A. Cable tester
B. Loopback plug
C. Toner probe
D. Punchdown tool

Answer:

C

Explanation:
A toner probe is a tool that can be used to trace and identify cables in a wiring closet. The technician can use a toner probe to find the cable that connects the new computer to the internet. A cable tester is a tool that can be used to check the continuity and quality of a cable. A loopback plug is a tool that can be used to test network ports or cables by sending and receiving signals from the same device. A punchdown tool is a tool that can be used to terminate wires into a patch panel or jack.

NEW QUESTION 182
- (Topic 3)
A service technician replaced the gateway, and a user is now unable to access the SOHO wireless network. Which of the following steps should the technician take to resolve the issue?

A. Assess the network cables for damage.
B. Disable Bluetooth connections.
C. Update the firmware.
D. Check if the password and SSID are correct

Answer: D

Explanation:
Checking if the password and SSID are correct is the best step that the technician should take to resolve the issue of a user being unable to access the SOHO wireless network after replacing the gateway. The new gateway may have a different password and SSID than the old one, which would prevent the user from connecting to the wireless network. The technician should verify that the user has entered the correct password and SSID for the new gateway. Assessing the network cables for damage, disabling Bluetooth connections, or updating the firmware are not likely to solve the issue, as they are not related to the wireless network authentication

NEW QUESTION 185
- (Topic 3)
Which of the following describes the BEST use case for a client-side hypervisor?

A. By For a software developer who is required to test an application in many environments
B. When the data center environment is out of resources for a new server
C. As a cost-saving measure to allow multiple users on one computer
D. To provide a backup to cloud-based solutions during internet failures

Answer: A

Explanation:
A client-side hypervisor is a virtual machine monitor (VMM) that resides in and virtualizes a user's computer, allowing it to run multiple operating systems (or virtual machines) on shared hardware12. A client-side hypervisor can be useful for a software developer who needs to test an application in many environments, such as different versions of Windows, Linux, or Mac OS. By using a client-side hypervisor, the developer can switch between different virtual machines without rebooting the computer or using multiple physical devices3.

NEW QUESTION 188
- (Topic 3)
Which of the following frequency bands do 802.11b and 802.11g operate in?

A. 1GHz
B. 2.4GHz
C. 5GHz
D. 6GHz

Answer: B

Explanation:
The frequency bands that 802.11b and 802.11g operate in are 2.4GHz bands, which allow for longer range but lower speed than higher frequency bands such as 5GHz or 6GHz bands used by newer standards such as 802.11a/n/ac/ax.

NEW QUESTION 192
- (Topic 3)
A business purchased a new multifunction printer that will be used to photocopy documents with hundreds of pages. A technician is configuring the printer. Which of the following features should the technician ensure is set up?

A. SMB
B. PCL
C. ADF
D. SSH

Answer: C

Explanation:
Automatic document feeder (ADF) is a feature that allows a multifunction printer to photocopy documents with hundreds of pages automatically without requiring manual intervention. ADF scans multiple pages from a stack of documents and feeds them into the printer one by one. SMB is a network protocol that allows file sharing and printer access among different devices on a network. PCL is a printer language that controls how data is formatted for printing. SSH is a network protocol that allows secure remote access to another device over an encrypted connection.

NEW QUESTION 193

- (Topic 3)
Which of the following handles touch-screen operation on a mobile device?

A. Stylus
B. Liquid crystal display
C. Processor
D. Digitizer

Answer: D

Explanation:
 A digitizer is a component that handles touch-screen operation on a mobile device. It is a layer of material that detects and converts the touch of a finger or a stylus into an electrical signal that can be processed by the device12. A digitizer works with a display screen to create a touch-screen interface that allows a user to interact with the device by touching pictures or words on the screen.

NEW QUESTION 195
- (Topic 3)
A technician is working on a desktop PC and wants to verify its NIC is functional. Which of the following should the technician use?

A. Cable tester
B. Loopback Plug
C. Toner probe
D. Network tap

Answer: B

Explanation:
 Reference: https://www.comptia.org/training/books/a-core-1-220-1101-study-guide (page 76)

NEW QUESTION 197
- (Topic 3)
A video game developer is requesting a new desktop computer with eight sticks of memory. The developer wants the desktop computer to take advantage of all available memory bandwidth without sacrificing performance. Which of the following would be the BEST solution?

A. Triple-channel with DDR5 ECC RAM
B. Quad-channel with DDR4 RAM
C. Quad-channel with DDR5 SODIMM
D. Dual-channel with DDR4 RAM

Answer: B

Explanation:
 Quad-channel memory architecture allows the CPU to access four memory modules simultaneously, increasing the memory bandwidth and performance. DDR4 RAM is a type of memory that has higher speed and lower power consumption than DDR3. SODIMM is a smaller form factor of memory that is typically used in laptops, not desktops. ECC RAM is a type of memory that can detect and correct errors, but it is more expensive and slower than non-ECC RAM. Triple-channel memory architecture is less common and less efficient than quad-channel. References: https://www.comptia.org/certifications/a#examdetails https://www.comptia.org/blog/what-is- ddr4-ram https://www.comptia.org/blog/what-is-quad-channel-memory

NEW QUESTION 198
- (Topic 3)
A technician is troubleshooting an issue involving lines appearing down copied pages, but printed pages sent directly to the copier render as intended. Which of the following is the MOST likely cause of this issue?

A. Empty imager drum
B. Overheated system fuser
C. Scratched scanner glass
D. Third-party toner

Answer: C

Explanation:
 If lines appear down copied pages but printed pages sent directly to copier render as intended, it could be due to scratched scanner glass which can cause lines or streaks on copied pages.
If there are lines appearing on copied pages, but not on printed pages sent directly to the copier, the issue is most likely caused by a scratch on the scanner glass. References: https://www.pacificoffice.com/how-to-fix-lines-on-copier/

NEW QUESTION 199
- (Topic 3)
Which of the following cloud-computing concepts describes an application that is hosted on the internet but can be used and configured as needed internally per organization?

A. Hybrid cloud
B. Public cloud
C. IaaS
D. SaaS
E. PaaS

Answer: E

Explanation:
Platform as a service (PaaS) is a cloud-computing concept that describes an application that is hosted on the internet but can be used and configured as needed internally per organization. PaaS provides a platform for developing, testing, deploying, and managing applications without having to maintain the underlying infrastructure or software. Hybrid cloud is a combination of public and private cloud services that share data and resources. Public cloud is a cloud computing model that provides services and resources to anyone over the internet. Infrastructure as a service (IaaS) is a cloud computing model that provides servers, storage, networking, and software over the internet

NEW QUESTION 201
- (Topic 3)
A drive failed on a server that was leveraging a RAID disk configuration. The server administrator would like to rebuild the array so it can withstand a potential multidrive failure in the future. Which of the following RAID configurations will the administrator MOST likely select?

A. 1
B. 5
C. 10

Answer: D

Explanation:
RAID stands for Redundant Array of Independent Disks, which is a technology that combines multiple disks into a logical unit to improve performance, reliability, or both. There are different types of RAID levels that use different methods of data distribution and redundancy.
RAID 0 is a level that stripes data across multiple disks without any redundancy. It offers the highest performance but no fault tolerance. If any disk fails, the entire array is lost. RAID 1 is a level that mirrors data across two disks. It offers the lowest performance but the highest fault tolerance. It can survive the failure of one disk.
RAID 5 is a level that stripes data across multiple disks with parity information. It offers a balance between performance and fault tolerance. It can survive the failure of one disk, but not two or more disks.
RAID 10 is a level that combines RAID 1 and RAID 0. It creates a striped array of mirrored pairs. It offers high performance and high fault tolerance. It can survive the failure of one disk in each pair, or multiple disks in different pairs.
Therefore, if the server administrator wants to rebuild the array to withstand a potential multidrive failure in the future, RAID 10 is the most likely choice.

NEW QUESTION 203
- (Topic 3)
The motherboard on a user's company laptop was recently replaced Now the user is unable to log in using the fingerprint reader The fingerprint reader is working but it does not recognize the user's fingerprint Which of the following should a technician perform FIRST to fix the issue?

A. Restore the system to a previous recovery point
B. Reinstall the fingerprint software
C. Access the BIOS and clear the TPM
D. Update the drivers and the fingerprint software
E. Flash the newest BIOS firmware that is available

Answer: B

Explanation:
If a user is unable to log in using the fingerprint reader on a company laptop after the motherboard was replaced, it could be due to an issue with the fingerprint software. The first step to fix the issue would be for the technician to reinstall the fingerprint software.

NEW QUESTION 205
- (Topic 3)
A tier one technician has spent the past thirty minutes troubleshooting an Issue With an end user's network connection After a solution was implemented, the end user rebooted the system, tested the Issue, and confirmed the Issue was resolved. Which of the following should the technician do NEXT?

A. Document the findings, actions, and solution in the company knowledge base
B. Advise the user to try the solution before contacting the help desk if the Issue happens again
C. Establish a theory of probable cause
D. Escalate the Issue to the tier two support team for resolution.

Answer: A

Explanation:
According to the Official CompTIA A+ Core 1 Study Guide (220-1101) 1, the correct answer is A. Document the findings, actions, and solution in the company knowledge base.
The explanation is that after resolving an issue, a technician should always document what was done and how it was fixed. This helps to create a record of the problem and its solution for future reference and also to share knowledge with other technicians. https://www.comptia.org/training/books/a-core-1-220-1101-study-guide
By documenting the findings, actions, and solution in the company knowledge base, it will help to ensure that if the Issue happens again, the technician or a different technician will be able to quickly and easily find the solution and resolve the Issue. Additionally, it is important to document the solution so that the same Issue does not need to be troubleshot multiple times in the future.

NEW QUESTION 209
DRAG DROP - (Topic 3)
A natural disaster occurred, and the storage system for the development team is unrecoverable. The technician is preparing replacement storage arrays that include a hypervisor with the capacity to support several virtual machines. Two separate bays are available, and both should be utilized.
Requirements for the primary array include the following:
• No need to be scalable
• Very fast on reads
• Fault tolerance of one drive
• Ability to function with only one drive
• Easily recoverable data

• High redundancy
• Minimum number of drives
Requirements for the secondary array include the following:
• Fault tolerance of one drive
• Total space of 600G3
• Best write performance
• Minimum number of drives Instructions:
Drag and Drop the appropriate Hard Drives. Then Open each array to complete the configuration.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Primary Array:
? Drag and drop two 120 GB SSD hard drives to the primary array bay.
? Open the primary array and select RAID 1 as the RAID level. RAID 1 provides fault tolerance of one drive, ability to function with only one drive, easily recoverable data, high redundancy, and very fast on reads. It also does not need to be scalable and uses the minimum number of drives (two) for RAID 1.
? Confirm the configuration and close the primary array. Secondary Array:
? Drag and drop two 300 GB SSD hard drives to the secondary array bay.
? Open the secondary array and select RAID 0 as the RAID level. RAID 0 provides the best write performance and uses the minimum number of drives (two) for RAID 0. It also provides a total space of 600 GB (300 GB x 2), which meets the requirement.
? Confirm the configuration and close the secondary array.
You have completed the configuration of the storage arrays.

NEW QUESTION 212
- (Topic 3)
A user is having an issue with the touch screen on a mobile device. When the user touches the screen, the intended target is not selected. Which of the following would be the BEST action for a technician to take to resolve the issue?

A. Calibrate the touch screen.
B. Reset the mobile device.
C. Replace the LED screen.
D. Update the mobile device.

Answer: A

Explanation:
Calibrating the touch screen is the best action to resolve the issue of inaccurate touch input. Calibration adjusts the touch screen's sensitivity and alignment to match the user's touch. Resetting the mobile device could erase user data and settings and may not fix the touch screen issue. Replacing the LED screen or updating the mobile device are unnecessary and costly actions that may not solve the problem.

NEW QUESTION 214
- (Topic 3)
A technician is troubleshooting a laptop that is unable to browse the internet when connected to the company's wireless network. The technician has verified network connectivity is functional when using an Ethernet cable. Which of the following should the technician use to check if the laptop's wireless NIC is functional?

A. Hotspot
B. Near-field communication
C. Ethernet tap
D. Spectrum analyzer

Answer: A

Explanation:
A hotspot is a wireless access point that provides internet access to devices that are connected to it. The technician can use a hotspot to check if the laptop's wireless NIC is functional by connecting the laptop to the hotspot and then trying to browse the internet. If the laptop is able to browse the internet, then the wireless NIC is functional. Near-field communication (NFC) is a wireless technology that allows two devices to communicate with each other when they are in close

proximity. NFC is not typically used to check if a wireless NIC is functional.
An Ethernet tap is a device that is used to monitor network traffic. An Ethernet tap is not typically used to check if a wireless NIC is functional.
A spectrum analyzer is a device that is used to measure the frequency spectrum of a signal. A spectrum analyzer is not typically used to check if a wireless NIC is functional. Therefore, the correct answer is A. Hotspot.

NEW QUESTION 217
- (Topic 3)
A user's desktop computer slows down after a few minutes of use, and the fans alternate between silent and very loud. Which of the following is MOST likely failing, therefore causing these symptoms?

A. CPU fan
B. Memory
C. Power supply
D. Hard drive

Answer: A

Explanation:
A CPU fan is a component that cools down the CPU, which is the main processor of the computer. If the CPU fan is failing, it can cause the computer to slow down and the fans to alternate between silent and very loud12. This is because the CPU fan cannot maintain a consistent speed and airflow to keep the CPU at a safe temperature.
When the CPU gets too hot, it throttles its performance to avoid overheating, which results in a slower computer. The other fans in the computer also try to compensate for the lack of cooling from the CPU fan by spinning faster and louder2.

NEW QUESTION 221
- (Topic 3)
A technician is troubleshooting connectivity issues and needs to promiscuously route a copy of traffic to a separate machine for analysis. Which of the following physical tools v/ould BEST accomplish this task?

A. Toner probe
B. Wi-Fi analyzer
C. Network tap
D. Loopbackplug

Answer: C

Explanation:
A network tap is a physical device that allows promiscuous monitoring of network traffic by creating a copy of the data packets for analysis. A toner probe is used to trace and identify cables. A Wi-Fi analyzer is used to measure wireless signal strength and interference. A loopback plug is used to test network ports or cables by sending and receiving signals from the same device.

NEW QUESTION 225
- (Topic 4)
A customer's Windows tablet PC was dropped and is no longer responding to touch input on the left half of the screen. The screen protector has several scratches. but the glass is not broken. Which of the following should a technician do to diagnose the issue?

A. Test the digitizer
B. Update the device drivers.
C. Replace the damaged screen protector
D. Perform a factory reset.

Answer: A

Explanation:
The digitizer is the component that converts the touch input into electrical signals that are processed by the tablet. If the digitizer is damaged or malfunctioning, it may not register the touch input correctly or at all. The technician can test the digitizer using a diagnostic tool or by replacing it with a known good one. Updating the device drivers, replacing the damaged screen protector, or performing a factory reset are unlikely to fix the issue, as they do not address the hardware problem.
Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 16.

NEW QUESTION 227
- (Topic 4)
Which of the following protocols is the most appropriate to use for inventory tracking in a small warehouse?

A. Near-field communication
B. Radio-frequency identification
C. Bluetooth
D. 802.11

Answer: B

Explanation:
Radio-frequency identification (RFID) is the most appropriate protocol to use for inventory tracking in a small warehouse. RFID is a technology that uses radio waves to identify and track objects that have RFID tags attached to them. RFID tags are small devices that store information about the object, such as its name, serial number, location, or status. RFID tags can be passive, which means they do not have a battery and rely on the radio signal from the reader to power them, or active, which means they have a battery and can transmit their own signal. RFID readers are devices that can scan the RFID tags and read the information stored on them.
RFID is suitable for inventory tracking in a small warehouse because it can provide several benefits, such as:
? Faster and more accurate scanning: RFID tags can be scanned without direct line

of sight, unlike barcodes, and can be scanned in bulk, unlike QR codes. This means that RFID readers can scan multiple items at once, even if they are inside boxes or containers, and reduce the time and errors involved in manual scanning.
? Real-time visibility and control: RFID tags can be updated with the latest
information about the inventory, such as its location, quantity, or condition. This means that RFID readers can provide real-time data and feedback on the inventory status, such as its availability, movement, or expiration. This can help improve inventory management, optimize warehouse space, and prevent stockouts or overstocking.
? Enhanced security and quality: RFID tags can be encrypted and authenticated,
unlike barcodes or QR codes, which can be easily copied or tampered with. This means that RFID tags can prevent unauthorized access or theft of the inventory, and ensure its authenticity and quality. This can help protect the inventory from damage, loss, or fraud, and increase customer satisfaction and trust.
References:
? Inventory Tracking Simplified: Steps, Methods and Efficiency Tips1
? 17 Essential Inventory Management Techniques – Forbes Advisor2
? Inventory Tracking vs Inventory Traceability - Kardex3

NEW QUESTION 230
- (Topic 4)
A user tries to turn on a computer but gets the following error message: Bootable device not found. The computer had no issues yesterday Which of the following is the most likely reason for this error?

A. The HDD is malfunctioning.
B. The mouse and keyboard are not connected.
C. A misconfigured boot device is in the BIOS.
D. The network cable is unplugged

Answer: A

Explanation:
 The most likely reason for this error is A. The HDD is malfunctioning.
A bootable device not found error usually indicates that the system cannot access or detect the hard disk that contains the operating system files. This could be due to a physical or logical damage to the hard disk, such as bad sectors, corrupted partitions, or faulty cables. According to the web search results, some possible causes and solutions for this error are:
? Hard drive connection issue: Check the cabling and power supply to the hard drive and make sure they are properly connected12.
? Corrupt hard drive partitions: Use a Windows installation media to scan and repair the corrupt system files using the System File Checker (SFC) tool1.
? Damaged hard drive: Replace the hard drive with a new one and reinstall the operating system2.
? Incorrect boot sequence in the BIOS: Enter the BIOS or UEFI settings menu and change the boot order to make sure that the system drive is in the first position13.
? Damaged MBR (Master Boot Record): Use a Windows installation media to repair the Windows bootloader using the Diskpart tool1.

NEW QUESTION 231
- (Topic 4)
A remote user is unable to access files at home but can open the files at the office. Which of the following should a technician check so the user can access the files both places?

A. Network drive remote access
B. Local user account
C. Remote fileshare permissions
D. Offline file settings

Answer: D

Explanation:
 One possible reason why a remote user is unable to access files at home but can open the files at the office is that the offline file settings are not configured properly. Offline files are a feature of Windows that allows users to access files and folders that are stored on a network drive even when they are not connected to the network. Offline files are cached copies of the network files that are stored on the local computer and synchronized with the network files when the connection is restored.
To use offline files, the user needs to enable the feature on their computer and on the network drive that contains the files they want to access. The user also needs to make sure that the files and folders they want to access are available offline, which means they are marked for offline synchronization. The user can check and change these settings by following these steps:
? Open Control Panel and select Network and Internet > Sync Center > Manage offline files.
? In the Offline Files window, click Enable offline files if the feature is disabled, and then click OK.
? Restart the computer to apply the changes.
? Open File Explorer and navigate to the network drive that contains the files and folders the user wants to access.
? Right-click the files and folders and select Always available offline. A green sync icon will appear next to the items that are available offline.
? To manually sync the offline files with the network files, open Sync Center and click Sync All.
By doing this, the user should be able to access the files and folders on the network drive even when they are at home or away from the office. However, the user should also be aware of some limitations and risks of using offline files, such as:
? Offline files may not reflect the latest changes made by other users on the
network, and may cause conflicts or errors when syncing.
? Offline files may take up a lot of disk space on the local computer, and may affect the performance or stability of the system.
? Offline files may be vulnerable to theft, loss, or damage if the local computer is not secured or backed up.
Therefore, the user should always backup their important files and folders, and use encryption or password protection to safeguard their offline files.
References:
? Make a network file or folder available offline - Windows Client1
? How to use offline files in Windows 10 - The Windows Club2
? Offline Files - Enable or Disable the Use Of - Windows 7 Help Forums3

NEW QUESTION 232
- (Topic 4)
A customer is reporting that some of the keys at the bottom edge on a laptop are hard to press and the track pad buttons require significant force to click. The technician inspects the laptop and does not notice any cracks or other damage to the chassis or screen. Which of the following is the most likely cause of the

issue?

A. The customer dropped the laptop.
B. The digitizer has failed.
C. The battery is swollen.
D. An open bottle of rubbing alcohol fell onto the keyboard.

Answer: C

Explanation:
A swollen battery is the most likely cause of the issue that the customer is reporting. A swollen battery is a battery that has expanded in size due to a chemical reaction, gas buildup, or overheating. A swollen battery can cause pressure on the laptop's chassis, keyboard, track pad, and other components, making them hard to press or click. A swollen battery can also pose a fire hazard and damage the laptop's performance and lifespan. The other options are not as likely or relevant to the issue. Dropping the laptop may cause cracks or other visible damage to the chassis or screen, but the technician did not notice any. The digitizer is the part of the laptop that converts touch input into digital signals, and it has nothing to do with the keyboard or the track pad buttons. An open bottle of rubbing alcohol falling onto the keyboard may cause liquid damage, corrosion, or short circuits, but it would not affect the track pad buttons or the bottom edge of the keyboard.
To troubleshoot and resolve the issue, the technician should remove the battery from the laptop and inspect it for signs of swelling, such as bulging, deformation, or leakage. The technician should also check the laptop's chassis, keyboard, and track pad for any signs of damage or warping caused by the battery. The technician should then replace the swollen battery with a new one that is compatible with the laptop's model and specifications. The technician should also dispose of the swollen battery properly and safely, following the local regulations and guidelines.
References:
? CompTIA A+ Certification Exam Core 1 Objectives1
? The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook2
? How to Fix a Swollen Laptop Battery - Lifewire3
? How to Tell If Your Laptop Battery Is Swollen - Techwalla4

NEW QUESTION 237
- (Topic 4)
A technician is configuring a SOHO network. During testing, the technician receives the IP address 169.254.2.2, but the router is assigned the address scope of 192.168.1.254/24. Which of the following is most likely the cause?

A. DHCP
B. Ipv6
C. DNS
D. Ipv4

Answer: A

Explanation:
DHCP stands for Dynamic Host Configuration Protocol, which is a protocol that provides quick, automatic, and central management for the distribution of IP addresses within a network1. A DHCP server can assign IP addresses and other network information to devices that request them, such as computers, smartphones, and routers2.
The IP address 169.254.2.2 is an example of an APIPA (Automatic Private IP Addressing) address, which is a special type of IP address that devices use when they cannot obtain a valid IP address from a DHCP server3. APIPA addresses are in the range of 169.254.0.1 to 169.254.255.254, with a subnet mask of 255.255.0.03. Devices that use APIPA addresses can only communicate with other devices on the same local network that also use APIPA addresses3.
The router in the question is assigned the address scope of 192.168.1.254/24, which means it has an IP address of 192.168.1.254 and a subnet mask of 255.255.255.04. This address scope belongs to the private IP address range of 192.168.0.0 to 192.168.255.255, which is commonly used for local networks4. Devices that use private IP addresses can communicate with other devices on the same local network or across different networks through NAT (Network Address Translation)4.
The most likely cause of the technician receiving the IP address 169.254.2.2 is that the DHCP server on the router is not working properly or is not configured correctly3. This could be due to various reasons, such as a misconfigured router, a faulty cable, a firewall blocking DHCP traffic, or an exhausted pool of IP addresses3. As a result, the technician's device cannot obtain a valid IP address from the DHCP server and resorts to using an APIPA address instead3.
To fix this issue, the technician should check the router settings and make sure that the DHCP server is enabled and has enough available IP addresses to assign to devices2. The technician should also check the physical cabling and make sure it is properly connected
and secured2. If the issue persists, the technician should try rebooting the router or resetting it to factory defaults2. Alternatively, the technician could manually assign a static IP address to the device that matches the router's address scope, such as 192.168.1.x/242.

NEW QUESTION 239
- (Topic 4)
Which of the following is the best reason to set up a virtual sandbox?

A. To run a test application that communicates with the test environment
B. To analyze the effects of malware in a safe manner
C. To host an application that multiple remote users can access
D. To test an application in Windows and Linux concurrently

Answer: B

Explanation:
A virtual sandbox is an isolated environment that mimics the characteristics of a real system, but does not affect or interact with it1. A virtual sandbox can be used to run potentially unsafe or malicious code and observe its behavior without risking harm to the host machine or network2. This is useful for cybersecurity researchers who want to test and analyze malware samples, such as viruses, worms, ransomware, etc., and understand how they work and how to prevent or mitigate them3.

NEW QUESTION 241
- (Topic 4)
Which of the following server roles does RADIUS perform?

A. DNS

B. AAA
C. Mail server
D. Syslog

Answer: B

Explanation:
AAA stands for Authentication, Authorization, and Accounting, and it is a framework that provides security services for network access control. Authentication verifies the identity of a user or device that requests access to a network resource. Authorization determines what level of access or privileges are granted to a user or device based on their identity or role. Accounting tracks and records the usage of network resources by users or devices for billing or auditing purposes. RADIUS (Remote Authentication Dial-In User Service) is a protocol that implements AAA functions by communicating with a central server that stores user credentials and policies.

NEW QUESTION 245
- (Topic 4)
A technician is installing a network interface card in a desktop computer. Which of the following connectors should the technician use to connect the card to the computer's motherboard?

A. PCIe
B. AGP
C. USB
D. IDE

Answer: A

Explanation:
PCIe (Peripheral Component Interconnect Express) is a type of expansion slot that connects network interface cards (NICs) and other devices to the motherboard. PCIe slots have different sizes and speeds, such as x1, x4, x8, x16, and x32. PCIe slots are faster and more versatile than older types of expansion slots, such as AGP (Accelerated Graphics Port) and IDE (Integrated Drive Electronics).
References: The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook, page 2-13.

NEW QUESTION 249
- (Topic 4)
Which of the following 802.11 Wi-Fi protocols utilizes the 5.0GHz frequency and has the BEST speed and reception?

A. 802.11a
B. 802.11 ax
C. 802.11b/g/n
D. 802.11n

Answer: B

Explanation:
802.11 ax is a wireless networking protocol that utilizes the 5.0GHz frequency and has the best speed and reception among the options given. 802.11 ax offers higher data rates, lower latency, increased capacity, and improved power efficiency than previous protocols. It is also known as Wi-Fi 6 or High Efficiency Wireless (HEW). 802.11a also uses the 5.0GHz frequency, but it is an older protocol that has lower speed and reception than 802.11 ax. 802.11b/g/n use the 2.4GHz frequency, which is more crowded and prone to interference than the 5.0GHz frequency. 802.11n can use both frequencies, but it is also slower and less efficient than 802.11 ax. Reference: https://www.comptia.org/training/books/a-core-1-220-1101-study-guide (page 82)

NEW QUESTION 252
- (Topic 4)
A company is designing a data center environment where a critical requirement is highly available computing. Which of the following types of memory should an administrator choose to install in the servers?

A. DDR5
B. ECC
C. DDR4
D. Dual-channel

Answer: B

Explanation:
ECC (Error Correcting Code) memory is a type of memory that can detect and correct errors that may occur during data transmission or storage. ECC memory is essential for high-availability computing, as it prevents data corruption and system crashes2. References: ECC Memory

NEW QUESTION 253
- (Topic 4)
Several users report that a projector routinely turns off in the middle of meetings and does not turn back on immediately. Users have to wait several minutes before the projector will turn back on. When the projector is on, the picture is clear and bright. Which of the following is the most likely reason the projector is turning off?

A. The video cable connecting the video source to the projector is failing.
B. The bulb in the projector is failing.
C. The projector is overheating and needs to be cleaned.
D. The outlet that the projector is plugged into is faulty.

Answer: C

Explanation:

The projector is overheating and needs to be cleaned. A common cause of projector shutdown is overheating, which can be triggered by dust accumulation, blocked vents, or faulty fans. The projector has a thermal protection circuit that turns it off when the temperature reaches a certain level, and it will not turn back on until it cools down. To prevent this issue, the projector needs to be cleaned regularly and placed in a well- ventilated area. The video cable, the bulb, and the outlet are not likely to cause the projector to turn off intermittently.
Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 18.

NEW QUESTION 255
- (Topic 4)
An administrator is replacing 15.000rpm hard drives in a server. Which of the following is the interface type the drives most likely use?

A. IDE
B. SAS
C. eSATA
D. SATA

Answer: B

Explanation:
SAS (Serial Attached SCSI) is an interface type that supports high-speed data transfer and high-performance hard drives, such as 15,000rpm drives. SAS drives are commonly used in servers that require fast access and reliability. IDE (Integrated Drive Electronics), eSATA (external SATA), and SATA (Serial ATA) are not suitable for 15,000rpm drives, as they have lower speed and performance.
Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 22.

NEW QUESTION 258
- (Topic 4)
A systems administrator is working to ensure access to corporate laptops is limited to authorized users. The administrator has already implemented a password policy. Which of the following would be the best option to help the administrator secure the corporate resources?

A. Trusted Platform Module
B. Biometric scanner
C. Laptop lock
D. Encryption

Answer: B

Explanation:
The best option to help the administrator secure the corporate resources is B. Biometric scanner.
A biometric scanner is a device that can authenticate a user's identity based on their physical or behavioral characteristics, such as fingerprint, iris, face, voice, or signature. A biometric scanner can provide a high level of security and convenience for accessing corporate laptops, as it can prevent unauthorized users from accessing the devices and eliminate the need to remember passwords .
The other options are not the best options for this scenario. A Trusted Platform Module (TPM) is a chip that can store encryption keys and other sensitive data on a laptop. A TPM can enhance the security of data and devices, but it does not limit access to authorized users by itself. A TPM can work with a password or a biometric scanner to provide multifactor authentication . A laptop lock is a device that can physically secure a laptop to a desk or other object using a cable and a lock. A laptop lock can deter theft or tampering, but it does not prevent unauthorized users from accessing the laptop if they have the password or the key. Encryption is a process that can protect data on a laptop by transforming it into an unreadable format using a key. Encryption can prevent unauthorized users from accessing or modifying the data, but it does not prevent them from accessing the laptop itself.

NEW QUESTION 263
- (Topic 4)
A technician is upgrading the memory on a server that processes payment information online. Which of the following types of memory would the technician most likely install?

A. DDR4
B. VRAM
C. SODIMM
D. ECC

Answer: D

Explanation:
ECC stands for Error Correction Code, which is a type of memory that can detect and correct data errors that may occur during processing or transmission. ECC memory is commonly used in servers that handle sensitive or critical information, such as payment information online, because it can reduce the risk of data corruption, system crashes, or security breaches12.
DDR4 is a generation of DDR technology, which stands for Double Data Rate. DDR4 memory is faster and more power-efficient than its predecessors, but it does not necessarily have ECC functionality. DDR4 memory can be either ECC or non-ECC1. VRAM is Video RAM, which is a type of memory that is dedicated to storing graphics data for display. VRAM is usually found on graphics cards or integrated graphics processors, not on servers3.
SODIMM is Small Outline DIMM, which is a type of memory module that has a smaller size and lower profile than regular DIMMs. SODIMMs are typically used in laptops, notebooks, or other compact devices, not on servers3.

NEW QUESTION 265
- (Topic 4)
An engineer is setting up two-factor authentication so users can access a company's human resources system. Which of the following should the engineer require users to do?

A. Use a mobile authenticator application.
B. Connect to the company's Wi-Fi.
C. Connect through the VPN.
D. Use a bastion server.

Answer: A

Explanation:
Two-factor authentication (2FA) is a method of verifying a user's identity by requiring two pieces of evidence: something the user knows (such as a password) and something the user has (such as a device). A mobile authenticator application is a software program that runs on a smartphone or tablet and generates a one-time code or token that the user can enter along with their password to access a system. This adds an extra layer of security to prevent unauthorized access.
References
•The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101), page 13-14
•CompTIA A+ Certification Exam Core 1 Objectives, page 9, objective 2.5
•What is Two-Factor Authentication?

NEW QUESTION 268
- (Topic 4)
A user's mobile device can back up classified files to an external hard drive at work but cannot save pictures to an external drive at home. Which of the following is most likely the issue?

A. The pictures do not have a classification flag set.
B. The drive permissions are insufficient.
C. Peripherals are managed via MDM.
D. Drivers are incorrectly installed.

Answer: C

Explanation:
The most likely issue that prevents the user's mobile device from saving pictures to an external drive at home is that the peripherals are managed via MDM (mobile device management). MDM is a software solution that allows an organization to remotely control, secure, and enforce policies on mobile devices, such as smartphones, tablets, or laptops. MDM can also restrict the access and functionality of the peripherals, such as external drives, cameras, microphones, or printers, that are connected to the mobile devices.
One of the possible reasons why the user's mobile device can back up classified files to an external hard drive at work but not save pictures to an external drive at home is that the MDM policy allows only authorized peripherals to be used with the mobile device. For example, the MDM policy may require the external drive to have a certain encryption level, a specific serial number, or a valid certificate to be recognized by the mobile device. The external drive at work may meet these criteria, while the external drive at home may not. Therefore, the mobile device can back up the classified files to the external drive at work, but it cannot save the pictures to the external drive at home.
To resolve this issue, the user may need to contact the IT administrator or the MDM provider and request permission to use the external drive at home. Alternatively, the user may need to use a different method to transfer the pictures from the mobile device to the external drive, such as using a cloud service, a wireless network, or a USB cable. References:
? What is Mobile Device Management (MDM)?1
? How to Manage Mobile Devices With MDM2
? How to Connect an External Hard Drive to Your Phone3

NEW QUESTION 271
- (Topic 4)
A technician installed a high-end graphics card in a desktop, and now, the desktop randomly shuts down during operations. Which of the following should the technician do next?

A. Confirm the power supply is grounded.
B. Check the power supply wattage rating.
C. Check whether the power supply is redundant.
D. Confirm the power cables are well connected.

Answer: B

Explanation:
The correct answer is B. Check the power supply wattage rating.
A possible cause of the desktop randomly shutting down during operations is that the power supply is not able to provide enough power for the high-end graphics card. The power consumption of today's graphics cards has increased a lot, and the top models demand between 110 and 270 watts from the power supply1. Therefore, the technician should check the power supply wattage rating and make sure it is sufficient for the graphics card and the rest of the components. Confirming the power supply is grounded, checking whether the power supply is redundant, or confirming the power cables are well connected are not likely to solve this problem.

NEW QUESTION 276
- (Topic 4)
An administrator is using an RJ45 connector to terminate a network cable. Which of the following cables is the administrator terminating?

A. Optical
B. Serial
C. Cat 6
D. USB

Answer: C

Explanation:
The correct answer is C. Cat 6.
An RJ45 connector is a standard type of physical connector for network cables. RJ45 connectors are used almost exclusively with Ethernet cables and networking1. Ethernet cables are twisted pair cables that carry data signals between devices on a network, such as computers, routers, switches, and servers2. There are different categories of Ethernet cables, such as Cat 5, Cat 5e, Cat 6, and Cat 7, that have different specifications and performance levels. Cat 6 is one of the most common types of Ethernet cables, which supports data transfer speeds up to 10 Gbps and bandwidth up to 250 MHz3. Cat 6 cables have four pairs of copper wires, each with a plastic insulation and a foil or braided shield. The wires are twisted together to reduce crosstalk and interference4.
To terminate a Cat 6 cable, an administrator needs to use an RJ45 connector that matches the wiring scheme of the cable. There are two common wiring schemes for Ethernet cables: T568A and T568B. The administrator needs to strip the cable jacket, untwist the wires, arrange them in the correct order according to the

chosen scheme, trim the excess wire, and insert them into the RJ45 connector. Then, the administrator needs to use a crimping tool to secure the wires and the connector4.

Optical cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit light signals, such as SC, ST, LC, or MTRJ connectors. Optical cables are used for fiber-optic networks that can carry data over long distances at high speeds.

Serial cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit serial data signals, such as DB9, DB25, or DE9 connectors. Serial cables are used for connecting devices that use serial communication protocols, such as modems, printers, scanners, or keyboards.

USB cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit universal serial bus data signals, such as USB-A, USB-B, USB-C, or Micro-USB connectors. USB cables are used for connecting devices that use USB communication protocols, such as flash drives, cameras, mice, or chargers.

NEW QUESTION 278
- (Topic 4)
An administrator notices that on an intermittent basis the virtual machines are running slowly. The virtual machines are correctly sized, and the hardware has enough free resources to cope with demand Which of the following is most likely the cause?

A. The physical servers are not able to draw enough power
B. The physical servers do not have enough network bandwidth.
C. The physical servers are throttling due to overheating
D. The physical servers are contending for resources

Answer: C

Explanation:
The physical servers are throttling due to overheating. This means that the servers are reducing their performance to prevent damage from excessive heat. This can cause the virtual machines to run slowly, as they depend on the physical servers' resources. To avoid this, the servers need adequate cooling and ventilation, as well as monitoring of their temperature and fan speed. According to the CompTIA Core1 objectives, one of the environmental factors that can affect system performance is overheating. A research paper on thermal management of servers also states that overheating can lead to performance degradation, reliability issues, and energy inefficiency.

NEW QUESTION 280
- (Topic 4)
Which of the following services allows a remote user to access network resources?

A. WLAN
B. SAN
C. DHCP
D. VPN

Answer: D

Explanation:
The correct answer is D. VPN.
A VPN (Virtual Private Network) is a service that allows a remote user to access network resources securely over the internet. A VPN creates an encrypted tunnel between the user's device and the VPN server, which acts as a gateway to the network. The user can then access the network resources as if they were directly connected to the network, without exposing their traffic to eavesdropping, interception, or censorship.
A VPN can provide remote users with access to various services on a company network, such as file and print services, client/server applications, and remote network administration1. A VPN can also protect the user's privacy and identity online by masking their IP address and location.
References:
•Remote Access to a Network - NETWORK ENCYCLOPEDIA, section "Remote access typically gives remote users access to the following services on a company network".

NEW QUESTION 285
- (Topic 4)
A user returns to work after a two-week vacation and cannot connect to an internal server. The remote drives were working the last time the user accessed them. Which of the following steps should the technician take next?

A. Conduct external research on the server software vendor's website.
B. Reference the server vendor's documentation for guidance.
C. Confirm a theory and determine the next steps to resolve the issue.
D. Determine if any infrastructure changes have been made.

Answer: D

Explanation:
The first step in troubleshooting any network connectivity issue is to identify the scope and source of the problem. The technician should check if any infrastructure changes have been made during the user's absence, such as updates, patches, configuration changes, or hardware replacements. These changes could affect the network settings, firewall rules, permissions, or compatibility of the user's device or the server. The technician should also verify if other users or devices can access the server or if the problem is isolated to the user's device. By determining if any infrastructure changes have been made, the technician can narrow down the possible causes and formulate a theory to test.
References
Chapter 5: Hardware and Network Troubleshooting How to fix HTTP 500 internal server error?
Remote desktop connection: An internal error has occurred

NEW QUESTION 288
- (Topic 4)
An engineer is building a workstation that requires the following components:
· An ATX motherboard
· A multi-core processor
· A dedicated graphics solution

· A SATA hard drive
· DDR4 memory
Which of the following power supply specifications would meet the workstation criteria?

A. 12V, 500W output
B. SFX, 18-pin connector
C. DC input
D. Type A socket

Answer: A

Explanation:
A power supply unit (PSU) is a component that converts AC power from the wall outlet to DC power that can be used by the computer components. A PSU has various specifications, such as input voltage, output voltage, wattage, connector type, form factor, and efficiency rating3. In this scenario, the engineer is building a workstation that requires the following components: an ATX motherboard, a multi-core processor, a dedicated graphics solution, a SATA hard drive, and DDR4 memory. The most suitable power supply specification for this workstation is 12V, 500W output. This means that the PSU can provide 12 volts of DC power and 500 watts of total power to the components. 12V is the standard output voltage for most modern PSUs, and it is compatible with the ATX motherboard and the SATA hard drive4. 500W is a sufficient wattage for a workstation that has a multi-core processor and a dedicated graphics solution, which are power-hungry components5. The other power supply specifications are not suitable for this workstation because:
•SFX, 18-pin connector is a form factor and a connector type that are not compatible with the ATX motherboard, which requires an ATX form factor and a 24-pin connector6.
•DC input is a type of input voltage that is not common for desktop PSUs, which usually
use AC input from the wall outlet.
•Type A socket is a type of AC power plug that is used in North America and Japan, but it is not a power supply specification.
References
3: What Power Supply Do I Have: Quick Ways to Find Your PSU Specs 4: Power Supply 101: A Reference Of Specifications
5: How to Choose the Right Power Supply for Your PC 6: SFX vs ATX PSU: What's the Difference?
AC vs DC Power Supply: What's the Difference? AC power plugs and sockets - Wikipedia

NEW QUESTION 293
- (Topic 4)
A technician is installing the RAM for a graphs workstation. Which of the following is special purpose memory used by graphic controllers?

A. SRAM
B. MicroDIMM
C. VRAM
D. Unbuffered DIMM

Answer: C

Explanation:
VRAM (Video Random Access Memory) is a special-purpose memory type used by graphics controllers to store image data that is displayed on the screen. VRAM is faster and more expensive than regular RAM, and it allows the graphics controller to access the image data directly without involving the CPU or the system memory. VRAM can improve the performance and quality of graphics-intensive applications, such as video editing, gaming, and 3D rendering.
References:
•Ram Flashcards | Quizlet, question "Which of the following is a special-purpose memory type used by graphics controllers?".
•Nvidia Unveils Big Accelerator Memory: Solid-State Storage for GPUs, paragraph 4.
•US5801706A - Special purpose memory for graphics and display apparatus …, abstract.

NEW QUESTION 298
- (Topic 4)
A laptop is experiencing slow performance writing data. Which of the following is the best component for a technician to upgrade to fix the issue?

A. RAM
B. HDD
C. TPM
D. CPU

Answer: B

Explanation:
The best component for a technician to upgrade to fix the issue of slow performance writing data is B. HDD. HDD stands for hard disk drive, which is a type of storage device that uses physical disks to store data. HDDs have moving parts that can slow down the read and write operations, especially when the data is fragmented or the disk is full12.
A better alternative to HDDs is SSDs, which stands for solid state drives. SSDs use flash memory and do not have any moving parts. SSDs can read and write data faster and use less power, which can improve the performance and battery life of the laptop13. Upgrading to an SSD can provide a significant improvement in performance2.
The other components are not as relevant or effective as upgrading the HDD. RAM stands for random access memory, which is a type of memory that stores temporary data for the CPU to process. RAM can affect the overall speed of the laptop, but it does not directly affect the writing performance of the storage device1. TPM stands for trusted platform module, which is a security chip that encrypts and protects data on the laptop. TPM does not affect the performance of the laptop, but rather its security1. CPU stands for central processing unit, which is the main processor of the laptop that executes instructions and calculations. CPU can affect the performance of the laptop, but it is not as easy or cost- effective to upgrade as the HDD1.

NEW QUESTION 303
- (Topic 4)
Which of the following is the best example of when to use virtualization?

A. To manage shared folders by user accounts
B. To deploy software updates to user machines
C. To enhance security by centralizing all user desktops

D. To prevent users from circumventing password policies

Answer: C

Explanation:
One of the benefits of virtualization is that it allows you to create and manage multiple virtual machines (VMs) on a single physical computer. This can be used to enhance security by centralizing all user desktops on a server, rather than storing them on individual user machines. This way, the user desktops can be isolated from each other and from the host machine, preventing malware infections, data breaches, and unauthorized access. Additionally, the user desktops can be easily backed up, restored, updated, and monitored by the administrator, reducing the risk of data loss and downtime.
This type of virtualization is called desktop virtualization, and it separates the desktop environment from the physical hardware the user interacts with1. The user can access their virtual desktop from any device, such as a laptop, tablet, or smartphone, using a remote display protocol. The user experience is similar to using a local desktop, but with improved security and manageability.
References:
•What Is Virtualization, and Why Should You Use it?, section "Desktop Virtualization".

NEW QUESTION 308
- (Topic 4)
A technician needs to upgrade the power supply of a workstation that contains a high-end graphics card, 16 hyperthreaded cores, and multiple hard drives. Which of the following should the technician use to determine the appropriate power supply for the workstation?

A. The manufacturer's specifications for the components
B. The wattage of the current power supply
C. The wattage of the motherboard
D. The capacity of the hard drives
E. The number of hyperthreaded cores

Answer: A

Explanation:
The manufacturer's specifications for the components are the best source of information to determine the appropriate power supply for the workstation. The manufacturer's specifications will list the power requirements and recommendations for each component, such as the graphics card, the CPU, the hard drives, and the motherboard. By adding up the power consumption of each component, the technician can estimate the total wattage needed for the workstation. The technician should also consider some extra headroom for future upgrades or peak loads. The technician can then choose a power supply that meets or exceeds the total wattage and has the right connectors and form factor for the workstation.

NEW QUESTION 313
- (Topic 4)
A user contacted the help desk about files that disappeared from a laptop. The technician discovered during troubleshooting that the drive was corrupt due to a possible mechanical failure, but the files were still readable. Which of the following actions did the technician take during troubleshooting?
(Select two).

A. Checked S.M.A.R.
B. information
C. Made sure the replacement drive was compatible
D. Ran CHKDSK
E. Reseated the HDD connector
F. Increased the page file size
G. Updated the firmware

Answer: AC

Explanation:
S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) is a feature of hard drives that monitors various parameters, such as temperature, error rate, spin-up time, and seek time, to assess the health and performance of the drive. S.M.A.R.T. can also predict the likelihood of failure based on the historical trends of these parameters. A technician can check the S.M.A.R.T. information of a hard drive using various tools, such as the BIOS, the operating system, or third-party software. Checking the S.M.A.R.T. information can help the technician diagnose the cause and severity of the drive corruption and determine the best course of action.
CHKDSK (Check Disk) is a command-line utility that scans the file system and the disk surface for errors and attempts to fix them. CHKDSK can also recover readable data from bad sectors and mark them as unusable. A technician can run CHKDSK on a corrupt drive using various options, such as /f (fix errors), /r (recover data), or /x (dismount the drive). Running CHKDSK can help the technician repair the drive corruption and retrieve the missing files.
References:
? How to Check Your Hard Drive's Health | PCMag1
? How to Check a Disk from Windows - dummies2
? How to Use CHKDSK in Windows 10 - Lifewire3

NEW QUESTION 316
- (Topic 4)
A laptop's external webcam software is running, but neither images nor videos can be viewed. Which of the following should a technician do first?

A. Reseat the webcam.
B. Restart the computer and run system diagnostics.
C. Reinstall the webcam software and drivers.
D. Research new webcam firmware.

Answer: A

Explanation:
The first step that a technician should do is A. Reseat the webcam. Reseating the webcam means unplugging and plugging back the webcam into the laptop's USB port. This can help to ensure that the webcam is properly connected and recognized by the laptop. Reseating the webcam is a simple and quick troubleshooting technique that can solve many common issues, such as loose or faulty connections, power or bandwidth problems, or driver or software conflicts.

Reseating the webcam is the first step that a technician should do, because it follows the principle of starting with the easiest and most obvious solution before moving on to more complex and time-consuming ones. Reseating the webcam can also help to isolate the problem and eliminate other possible causes.

The other options are not the first steps that a technician should do, because they are more disruptive or less effective. Restarting the computer and running system diagnostics (option B) may be helpful if the problem is caused by a software or hardware error, but it may also cause data loss or interruption of other tasks. Reinstalling the webcam software and drivers (option C) may be necessary if the problem is caused by a corrupted or outdated software or driver, but it may also introduce compatibility or configuration issues. Researching new webcam firmware (option D) may be useful if the problem is caused by a firmware bug or vulnerability, but it may also pose security or stability risks.

For more information about troubleshooting external webcams, you can refer to the following web search results: [How to Fix Webcam Problems on Your Laptop], [How to Troubleshoot Webcam Issues on Windows 10], [How to Fix Common Webcam Problems].

NEW QUESTION 320
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