

# Exam Questions 220-1101

CompTIA A+ Certification Exam: Core 1

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#### NEW QUESTION 1

- (Topic 2)

A startup company is outgrowing its current office space and is requiring employees to work remotely. The company must comply with government-enforced requirements to safeguard all aspects of data, so the IT department plans to maintain complete control over users' operating systems. Which of the following should the IT department implement?

- A. VDI
- B. IaaS
- C. VPN
- D. SaaS

**Answer:** A

#### Explanation:

The IT department should implement VDI. Virtual Desktop Infrastructure (VDI) is a technology that allows users to access a desktop operating system from a remote location. VDI provides complete control over users' operating systems, which is important for safeguarding data. VDI also provides a secure way to access data from remote locations, which is important for compliance with government-enforced requirements<sup>1</sup>.

#### NEW QUESTION 2

- (Topic 2)

A user on the marketing team uses various multimedia applications that consume a lot of memory. The user needs to install more RAM to run these applications effectively. When the user opens the computer case, the user sees four slots in two sets of colors. Which of the following memory types is MOST likely required?

- A. Dual-channel
- B. Triple-channel
- C. Single-channel
- D. Quad-channel
- E. Error correction code RAM

**Answer:** A

#### Explanation:

The two sets of colors on the motherboard indicate that it supports dual-channel memory, which doubles the bandwidth available to the memory controller. Dual-channel memory requires two identical memory modules to be installed in pairs in the correct slots to work effectively. In this case, the user can install two identical RAM modules to enable dual-channel memory, which will provide better performance when using multimedia applications that consume a lot of memory.

#### NEW QUESTION 3

- (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 4

- (Topic 2)

A technician is troubleshooting a point-of-sale printer that is printing blank receipts. Which of 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>

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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 5

- (Topic 2)

A user calls the help desk for assistance configuring an Android phone with a new NFC-enabled speaker that will be used for an upcoming conference call. The user was unable to direct the phone's audio to the NFC speaker. Which of the following sequences should the help desk technician walk the customer through to accomplish this task?

- A. Enable NFC on the speaker
- B. Ensure the speaker is less than 33ft (10m) from the Android phone
- C. On the phone's Bluetooth settings menu for Connected Devices, select Pair New Device
- D. Tap to accept the connection to the speaker when the prompt is displayed on the phone's screen.
- E. Enable NFC and Bluetooth on the Android phone
- F. From the Android phone's Bluetooth settings menu for Connected Devices, select the Previously Connected Devices option
- G. Select a listed device that most closely matches the speaker
- H. Tap to accept the connection to the speaker when the prompt is displayed on the phone's screen.
- I. Enable NFC and Bluetooth on the Android phone
- J. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displayed
- K. Accept the connection to the speaker when the prompt is displayed on the phone's screen.
- L. Enable Wi-Fi on the speaker
- M. Enable Wi-Fi on the Android phone
- N. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displayed
- O. Accept the connection to the speaker when the prompt is displayed on the phone's screen.

**Answer:** A

#### NEW QUESTION 6

- (Topic 2)

A technician is replacing the RAM on an entry-level server with hot-swappable 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 7

- (Topic 2)

A user has decided to build a new computer with parts purchased from a popular online vendor. The user has referenced online resources to assemble the unit. However, when the user presses the power button, the new computer does not load the operating system's installer. Instead, the onboard speaker beeps and immediately reports an issue on the screen. Which of the following is the MOST likely issue with the new build?

- A. The user did not plug in the processor's fan.
- B. The user did not apply thermal paste to the CPU.
- C. The user did not seat the GPU correctly.
- D. The user did not install the power supply.

**Answer:** A

#### Explanation:

If a computer is not booting and the onboard speaker emits beeps, it can indicate a hardware issue. One of the most common causes of beep codes is overheating, which can occur if the processor's fan is not properly installed and running. The processor's fan is responsible for cooling the processor and preventing damage to the internal components.

#### NEW QUESTION 8

- (Topic 2)

A technician is configuring a new CAD workstation that has four large hard drives. The workstation will be used to edit large, critical files, so the storage configuration should be both fast and redundant. Which of the following RAID levels BEST meets these requirements?

- A. 1
- B. 5
- C. 10

**Answer:** D

#### Explanation:

RAID 10 combines the benefits of RAID 0 and RAID 1. It uses a striped configuration across multiple disks (similar to RAID 0) to provide high-speed read and write access. Additionally, it also mirrors the striped array onto a second set of drives (similar to RAID 1), providing redundancy in case of a drive failure.

#### NEW QUESTION 9

- (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 do 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 10**

- (Topic 2)

A user is researching hard drives to upgrade a PC and has decided to purchase a NVMe drive. Which of the following Should the user confirm are available on the PC before making the purchase? (Select TWO).

- A. SATA
- B. M.2
- C. PCIe
- D. SAS
- E. SCSI
- F. DRAM

**Answer:** BC

**Explanation:**

NVMe (Non-Volatile Memory Express) drives are high-speed solid-state drives that utilize the PCIe (Peripheral Component Interconnect Express) interface to connect to the motherboard. Before purchasing an NVMe drive, the user should confirm that the PC has an available M.2 slot for the drive and that the PC has a PCIe interface for the M.2 slot. SATA (Serial ATA) is an older interface for hard drives and is not compatible with NVMe drives. SAS (Serial Attached SCSI) is a newer interface for hard drives and is typically used for enterprise-level storage systems. SCSI (Small Computer System Interface) is a parallel interface for hard drives that is primarily used in high-end workstations and servers. DRAM (Dynamic Random Access Memory) is a type of memory commonly used in computers, but it is not relevant to the storage of data on a hard drive.

Reference: CompTIA A+ Core 1 Exam Guide, page 267.

**NEW QUESTION 10**

- (Topic 2)

A user who works with sensitive data has a computer configured with hard drive encryption The TPM is active and hosting the encrypted key. After an upgrade to the motherboard. RAM and video card the hard drive is not booting and data cannot be accessed from the hard drive. Which of the following should the technician do to enable the system to boot again and get access to the stored data?

- A. Use data recovery software to find and recover the hard drive information
- B. Access the BIOS and select to rebuild the degraded RAID array
- C. Boot into the BIOS and enable the TPM on the new motherboard.
- D. Return the replaced motherboard back to the computer

**Answer:** C

**Explanation:**

After upgrading the motherboard, the TPM may need to be enabled in the BIOS in order to access the encrypted key and boot the system. Enabling the TPM on the new motherboard should allow the system to boot and provide access to the encrypted data. References: CompTIA A+ Certification Exam Guide, 220-1001, Chapter 13

**NEW QUESTION 11**

- (Topic 1)

A user reports that a PC occasionally fails to boot. The user reboots the PC. but the performance is degrading. The technician hears a strange, repetitive, ticking noise coming from the PC. Which of the following should the technician do FIRST?

- A. Try to extract data.
- B. Reseat the RAM modules.
- C. Inspect the fan.
- D. Check the CD tray.

**Answer:** A

**Explanation:**

This is a safe and sensible option if you value your data more than anything else. You don't want to risk losing your data by trying other methods that may worsen the situation. You can use a software tool or a service provider to recover your data before attempting any repairs.

**NEW QUESTION 13**

- (Topic 1)

Which of the following describes metered utilization of cloud resources?

- A. Resources provisioned instantly
- B. Payments made only for resources that are used
- C. Resources pooled to increase computing power
- D. Implementation of rapid elasticity

**Answer:** B

**Explanation:**

Metered utilization of cloud resources refers to payments made only for resources that are used. Cloud providers offer a pay-as-you-go model where customers

are charged based on their usage of resources. Customers can easily scale up or down their usage of resources as per their needs and only pay for what they use. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 642)

#### NEW QUESTION 17

- (Topic 1)

Which of the following network devices is used to separate broadcast domains?

- A. Switch
- B. Wireless access point
- C. Router
- D. Hub

**Answer:** C

#### Explanation:

A router (option C) is a network device that is used to separate broadcast domains. A broadcast domain is a logical division of a computer network in which all nodes can reach each other by broadcast at the data link layer. Routers operate at the network layer of the OSI model and use routing tables to determine the best path for forwarding packets between different networks.

By separating broadcast domains, routers can help to reduce network congestion and improve performance. When a router receives a broadcast packet on one of its interfaces, it does not forward the packet to any other interfaces. This means that only devices within the same broadcast domain as the sender will receive the broadcast packet.

#### NEW QUESTION 18

- (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 21

- (Topic 1)

A user submits a help desk ticket regarding a smartphone that will no longer accept its charging cable. The assigned technician notices the phone does not have a protective case, and the user constantly transport the phone in a pocket. The technician attempts to use a secondary charger, but the cable falls out of the phone. Which of the following is the MOST likely cause of the issue?

- A. The phone requires a firmware update to address charging issues.
- B. The charge port contains foreign objects, such as lint.
- C. The phone's battery has swelled, preventing the utilization of the charge port.
- D. The phone has experienced water damage, thus the battery is not charring.

**Answer:** B

#### Explanation:

The symptoms suggest that the charging cable falls out of the phone, indicating that the charge port may contain foreign objects such as lint, which can interfere with the connection between the charging cable and the phone.

#### NEW QUESTION 23

- (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 27

- (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 31

- (Topic 1)

A technician installed a Cat 5 UTP cable approximately 275ft (84m) from a network switch in an office to a workstation located on a factory floor. The technician sees both a flashing green LED and a flashing orange LED on the workstation's NIC. Which of the following should the technician do FIRST?

- A. Check for loose connections, pinched bends, and physical damage.
- B. Install a powered hub as close as possible to the halfway point in the Cat 5 UTP cable run.
- C. Replace the entire run of Cat 5 UTP cable with Cat 5 STP cable.
- D. Upgrade the entire cable run to multimode fiber.

**Answer:** A

#### Explanation:

The flashing green and orange LEDs on the NIC indicate connection issues. The technician should first check for loose connections, pinched bends, and physical damage, which are the most common causes of connection problems. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 14

#### NEW QUESTION 36

- (Topic 1)

Which of the following describes the main difference between T568A and T568B cabling standards?

- A. The T568B data transfer rate is higher than T568A.
- B. The green and the orange cables are interchanged.
- C. T568A is used in blue cables, and T568B is used in green cables.
- D. The standards use different cable connectors.

**Answer:** B

#### Explanation:

The main difference between T568A and T568B cabling standards is that the green and orange cables are interchanged<sup>12</sup>. T568A is designed for backward compatibility with older telephone wires, while T568B is designed for better signal isolation and noise protection for newer networking systems and products<sup>3</sup>. T568A is used in blue cables, and T568B is used in green cables<sup>1</sup>. The standards use the same cable connectors<sup>3</sup>.

#### NEW QUESTION 37

- (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 41

- (Topic 1)

A technician replaced a motherboard on a server, and now the 64-bit hypervisor is not loading correctly. Which of the following needs to be enabled for the hypervisor to run?

- A. Hardware prefetcher
- B. Hyperthreading
- C. vPro
- D. VT-d

**Answer:** D

**Explanation:**

[https://techlibrary.hpe.com/docs/iss/proliant-gen10-uefi/s\\_enabling\\_VT-d.html](https://techlibrary.hpe.com/docs/iss/proliant-gen10-uefi/s_enabling_VT-d.html)

Enabling VT-d (Virtualization Technology for Directed I/O) in the server's BIOS settings is required for the hypervisor to run properly. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 11

**NEW QUESTION 45**

- (Topic 1)

Which of the following BEST describes the main function of a web server?

- A. Storing files and controlling user access
- B. Setting up personal mailboxes and calendars
- C. Providing IP addresses and printing services
- D. Hosting home pages and business portals

**Answer:** D

**Explanation:**

A web server is a software application that serves HTTP (Hypertext Transfer Protocol) requests by delivering web pages and other files to users' web browsers. The main function of a web server is to host home pages and business portals, making them accessible to users via the internet. References: CompTIA A+ Certification Exam Objectives 220-1001 - Networking - 1.6

**NEW QUESTION 47**

- (Topic 1)

A user reports issues with a smartphone after dropping it. The icons on the screen all look normal, but when the user touches the email icon, for example, nothing happens. Which of the following is MOST likely the cause?

- A. Digitizer issues
- B. Overheating
- C. Broken screen
- D. Malware

**Answer:** A

**Explanation:**

Dropping a smartphone can damage the digitizer, which is the component responsible for sensing touch input. This can cause issues with tapping and swiping on the screen, as well as other touchscreen-related issues. References: CompTIA A+ Certification Exam Core 1 Exam Objectives - 3.3 Given a scenario, troubleshoot mobile device issues

**NEW QUESTION 48**

- (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 used.

**NEW QUESTION 50**

- (Topic 1)

An organization has some computers running macOS and some computers running Windows. The computers running macOS also need to run a piece of software that is only available on Windows. Which of the following BEST describes the solution for running Windows software on a computer running macOS?

- A. Operating system spoofing
- B. Remote software provisioning
- C. Indirect software implementation
- D. Cross-platform virtualization

**Answer:** D

**Explanation:**

Cross-platform virtualization would be the best solution for running Windows software on a computer running macOS. This involves running a virtual machine (VM) on the macOS computer, which emulates a Windows environment and allows the Windows software to be installed and run within the VM. Cross-platform virtualization allows a computer running macOS to run Windows software. It involves creating a virtual machine on the macOS computer and

installing a Windows operating system on it. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 1

#### NEW QUESTION 55

- (Topic 1)

An organization maintains various record types, including health and criminal justice records. Which of the following cloud environments is the organization MOST likely to use to limit the attack surface?

- A. Public
- B. Hybrid
- C. Community
- D. Private

**Answer:** D

#### Explanation:

Private cloud environments are designed for use by a single organization and offer the greatest control over security and access to data. They are typically used for sensitive or confidential data, such as health and criminal justice records. Public cloud environments are shared by multiple organizations and offer less control over security and access to data. Hybrid cloud environments combine public and private clouds, while community clouds are shared by multiple organizations with similar needs. References: CompTIA A+ Certification Exam: Core 1 - Page 234

#### NEW QUESTION 56

- (Topic 1)

A user failed to gain access to a building's entrance after security measures at the entrance were upgraded last week. The company implemented the 13.56MHz frequency short band, and users can now utilize their mobile devices to authenticate. Which of the following has to be enabled for the mobile device to authenticate?

- A. Bluetooth
- B. Biometrics
- C. NFC
- D. PIN

**Answer:** C

#### Explanation:

NFC (Near Field Communication) is a technology used for short-range wireless communication between devices, typically used for contactless payments and authentication. In this scenario, the 13.56MHz frequency short band was implemented, and users can authenticate using their mobile devices, which requires NFC to be enabled on the device. References: CompTIA A+ Certification Exam Objectives 220-1001 - Mobile device network and device synchronization - 4.4

#### NEW QUESTION 58

- (Topic 1)

A customer reports that access to the network fileshare has become much slower than usual, but local applications do not seem to have trouble. The technician checks the download bandwidth and finds no issues. Which of the following should the technician check NEXT?

- A. Level of network utilization
- B. Customer use of two-factor authentication
- C. Amount of local drive space
- D. RAID array drive health

**Answer:** A

#### Explanation:

The technician should check the level of network utilization to determine if there is an excessive amount of traffic that may be causing the slow access to the network fileshare. This can be done using network monitoring tools to track the amount of data being transmitted on the network. References: CompTIA A+ Certification Exam Objectives 1001, 2.9

#### NEW QUESTION 63

- (Topic 1)

A user, who is attempting to give a presentation via a projector in a conference room, reports the projector has video but no audio. Which of the following will MOST likely resolve the issue?

- A. Changing the input on the projector to VGA
- B. Changing the output on the PC to DVI
- C. Modifying the projector's refresh rate
- D. Utilizing an HDMI connection

**Answer:** D

#### Explanation:

The issue of video but no audio on a projector in a conference room can be resolved by utilizing an HDMI connection between the PC and the projector. HDMI supports both video and audio signals and is commonly used to connect a PC to a projector for presentations. Changing the input on the projector to VGA, changing the output on the PC to DVI, or modifying the projector's refresh rate will not resolve the issue. References: CompTIA A+ Certification Exam: Core 1 - Objective 2.5

#### NEW QUESTION 67

- (Topic 1)

A user in a medical office contacts a technician regarding a printer that is used to print A4-sized labels. After the labels are printed, they mistakenly contain white space in the middle of the page. Which of the following would MOST likely be the cause?



- A. Contaminated fuser
- B. Worn rollers
- C. A misfeed
- D. Page orientation

**Answer:** D

**Explanation:**

The most likely cause of the issue is that the page orientation is incorrect. The printer may be set to print labels in a different orientation than the orientation of the label sheet1.

**NEW QUESTION 68**

- (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 69**

SIMULATION - (Topic 1)

A small ISP has hired a new technician Joe, the new technician, is being trained to configure customers\* home networks The trailing instructor gives me technician a starter kit with cables, cable ends, and other network equipment and asks mm to build a working network.

The computer should be connected to have internet connectivity and the phone should be connected to have a dial tone.

**INSTRUCTIONS**

Use the appropriate cables, cable ends, tools and equipment to configure the network ana connect an components accordingly

There are 3 steps and the simulation starts on step 1.

**SOHO Starter Kit**

Connectors

RJ11

RJ45

F Connector

Tools

Step 1

Step 2

show question

Reset All Answers

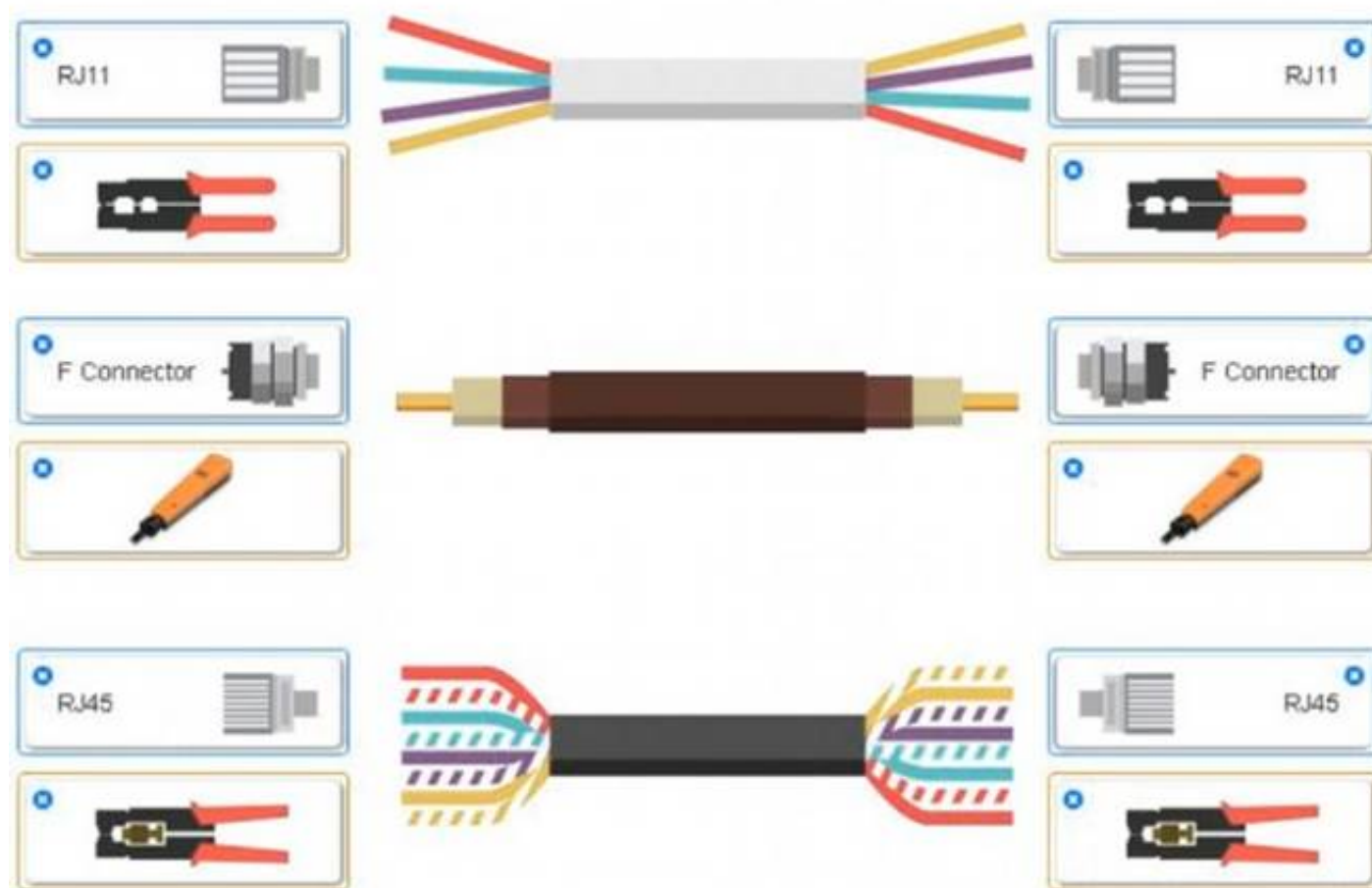


- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Answer of both steps below.



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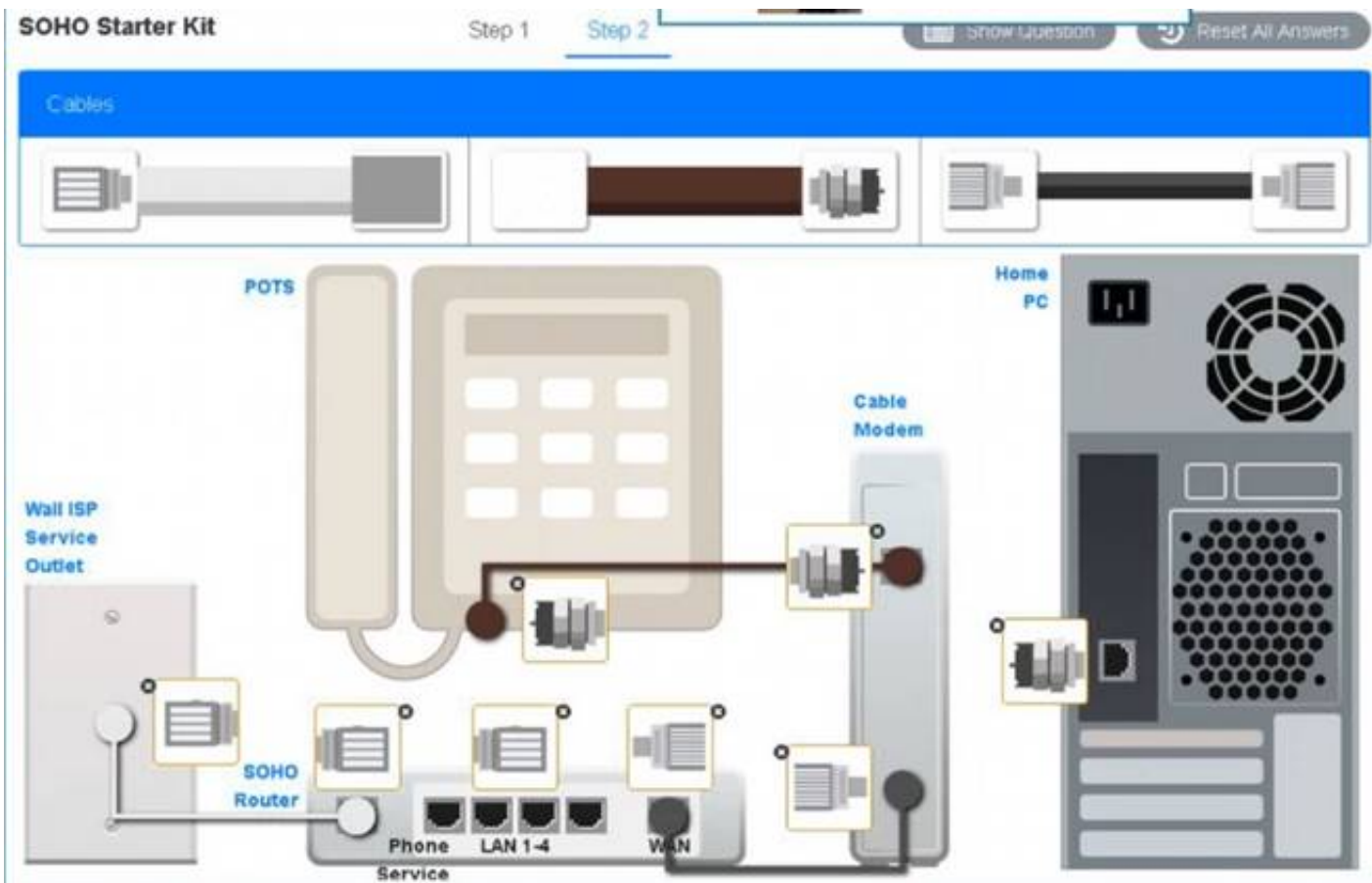


Diagram Description automatically generated with medium confidence

NEW QUESTION 70

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:  (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

**Wireless Security Mode**

Security Mode:

**WPA2**

Passphrase:

Confirmed Passphrase:



**Laura's House**

**Laura's Wireless Configuration**

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

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

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**

**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:  (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

**WIRELESS SECURITY MODE:**

Security Mode:

**WPA2:**

Passphrase:

Confirmed Passphrase:

**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



The image shows a 'Wireless Configuration' window with three tabs: 'Wireless Setup', 'Network Filter', and 'Administrator Tools'. The 'Administrator Tools' tab is selected, showing an 'ADMIN PASSWORD' section. It instructs the user to 'Please enter the same password into both boxes for confirmation.' There are two input fields: 'Password:' and 'Verify Password:', both containing the text 'Secure\$1'. A 'Save Settings' button is located at the bottom right.

#### NEW QUESTION 74

- (Topic 1)

Which of the following concepts would be used by an online retailer to quickly add more web servers during peak sales times?

- A. Community cloud
- B. Rapid elasticity
- C. High availability
- D. Metered service

**Answer:** B

#### Explanation:

Rapid elasticity would be used by an online retailer to quickly add more web servers during peak sales times. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 405

#### NEW QUESTION 78

- (Topic 1)

Which of the following technologies can allow multiple networks to traverse a switch?

- A. VLAN
- B. VRRP
- C. VPN
- D. DHCP

**Answer:** A

#### Explanation:

The technology that allows multiple networks to traverse a switch is VLAN (Virtual Local Area Network) which is a logical grouping of devices on the same network regardless of their physical location.

Virtual Local Area Network (VLAN) technology can allow multiple networks to traverse a switch. A VLAN is a logical network created within a physical network that can separate traffic and allow multiple networks to coexist on the same physical network infrastructure. VRRP (Virtual Router Redundancy Protocol), VPN (Virtual Private Network), and DHCP (Dynamic Host Configuration Protocol) do not allow multiple networks to traverse a switch. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.2

### NEW QUESTION 83

- (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 87

- (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 90

- (Topic 1)

In which of the following places is a laptop's wireless antenna MOST likely located?

- A. Near the network interface card
- B. Underneath the battery
- C. Integrated into the motherboard
- D. In the bezel of the lid

**Answer:** D

#### Explanation:

According to Dell Community, the Wi-Fi antenna is located in the top of the LCD display housing. It consists of two elements, fed by two cables, a white main designated on the Wi-Fi card by a white triangle, and a black auxiliary designated on the Wi-Fi card by a black triangle1.

### NEW QUESTION 91

- (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 94

- (Topic 1)

A technician is setting up a device to use two-factor authentication. Which of the following meets this requirement?

- A. Thumbprint/retinal scan
- B. Password/password
- C. Password/thumbprint
- D. Password/PIN

**Answer:** C

#### Explanation:

Two-factor authentication (2FA) is a security process that requires users to provide two different authentication factors to verify their identity. This means that in addition to providing something they know (such as a password or PIN), they must also provide something they have (such as a smart card or token) or something they are (such as a fingerprint or retinal scan).

In this case, the correct answer would be C. Password/thumbprint. This option meets the requirement for two-factor authentication because it combines two different types of authentication factors: something the user knows (the password) and something the user is (the thumbprint). The other options do not meet the requirement for 2FA because they either use only one type of authentication factor (A and D) or use two instances of the same type of factor (B).

#### NEW QUESTION 95

- (Topic 1)

While implementing a non-carrier-grade wireless backhaul, a technician notices the current channel selection is extremely polluted with various RF signals. Upon performing a spectral analysis, the technician discovers a channel containing almost no RF pollution. Unfortunately, the technician is unable to select that channel. Which of the following is the MOST likely reason for this issue?

- A. The channel is reserved for licensed band use.
- B. The channel selection is defective; contact the manufacturer.
- C. The channel must be unlocked by the vendor.
- D. The device requires a firmware update to unlock the channel.

**Answer:** A

#### Explanation:

The most likely reason that the technician is unable to select the channel with almost no RF pollution is that it is reserved for licensed band use. Some channels are reserved for specific purposes and require a license to use. These licensed bands are typically used for critical infrastructure, public safety, or military operations, and unlicensed devices are not allowed to use them. References: CompTIA A+ Certification Exam Objectives - 220-1001: 3.3 Compare and contrast common networking hardware devices.

#### NEW QUESTION 100

- (Topic 1)

A technician needs to fix a Cat 5 cable issue. The cable, which is connected to a network jack, fails when it is moved around. Which of the following items must the technician use to fix the issue? (Select TWO).

- A. Scissors
- B. Network tap
- C. Magnetized screwdriver
- D. Tone generator
- E. RJ45 connector
- F. Crimper

**Answer:** EF

#### Explanation:

To fix a Cat 5 cable issue where the cable fails when it is moved around, the technician would need to use an RJ45 connector (option E) and a crimper (option F). The technician can use the crimper to attach a new RJ45 connector to the end of the cable, which should resolve the issue.

An RJ45 connector (option E) is a type of connector commonly used for Ethernet networking. It is an 8-position, 8-contact (8P8C) modular plug and jack that is used to terminate Cat 5 and other types of twisted pair cables. A crimper (option F) is a tool used to attach connectors to the ends of cables. In this case, the technician would use the crimper to attach a new RJ45 connector to the end of the Cat 5 cable.

When a cable fails when it is moved around, it often indicates that there is a problem with the connector at the end of the cable. By attaching a new RJ45 connector using a crimper, the technician can ensure that the cable has a secure and reliable connection.

#### NEW QUESTION 101

- (Topic 1)

A user on a SOHO network is unable to watch online videos, even at 240 pixels. The technician runs ipconfig from the user's computer and records the following:

```
Connection-specific DNS Suffix .: lan
Link-local IPv6 Address . . . . .: fe80::1585:7fb2:b05f:7102%12
IPv4 Address. . . . .: 192.168.1.131
Subnet Mask . . . . .: 255.255.255.0
Default Gateway . . . . .: 192.168.1.1
```

The technician then connects a test laptop to the router via the user's Cat 5 cable and records the following information:

```
Download: 85 mbps
Upload: 22 mbps
Ping: 28 ms
```

Which of the following is MOST likely causing the user's issue?

- A. Incorrect IP address
- B. Faulty NIC
- C. Misconfigured default gateway
- D. Bad network cable

**Answer:** B

#### Explanation:

Based on the information recorded by the technician, the network connection appears to be functioning normally. The user's computer is properly configured with an IPv4 address, subnet mask, and default gateway, which should allow the user to access the internet and online videos. The high download and upload speeds and low ping time recorded from the test laptop also indicate that the network is working well. However, the user's inability to watch online videos suggests that



there might be an issue with the network card (NIC) on the user's computer. The NIC might be faulty or malfunctioning, which is preventing the computer from receiving and processing the video data. The technician should try replacing the NIC to resolve the issue.

#### NEW QUESTION 104

- (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. DHCP pool configuration
- B. MAC filtering list
- C. Wireless protocol settings
- D. DNS 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 105

- (Topic 1)

A technician is configuring a workstation to be used as a VM host. After installing the necessary software, the technician is unable to create any VMs. Which of the following actions should be performed?

- A. Disable the BIOS password.
- B. Enable TPM.
- C. Enable multithreading.
- D. Enable Fast Startup.

**Answer:** B

#### Explanation:

If you want to install Windows 11 on a virtual machine using Hyper-V, you will have to use a "Generation 2" VM and enable the "trusted platform module" (TPM) and Secure Boot options. Otherwise, the OS won't install.

Starting with Windows 11, Microsoft is changing the system requirement and making TPM 2.0 and Secure Boot a prerequisite to perform an in-place upgrade or clean install the new version on any device. This is in addition to the new 4GB of RAM and at least 64GB of storage.

quoted from here:

<https://pureinfotech.com/enable-tpm-secure-boot-hyperv-install-windows-11/> Furthermore, Multithreading is not a requirement for hyper-v hosting.

To create virtual machines on a workstation, the technician needs to enable Trusted Platform Module (TPM) in the system BIOS. TPM is a hardware-based security feature that helps protect the system from unauthorized access and tampering. It is required for many virtualization technologies, including Hyper-V, VirtualBox, and VMware. References: CompTIA A+ Certification Exam Objectives - 220-1002: 2.7 Explain the basics of virtualization.

#### NEW QUESTION 108

- (Topic 1)

Client-side virtualization guest machines have security requirements similar to physical machines, but they also need to ensure separation from other guest machines. Which of the following BEST describes this client-side guest security requirement?

- A. Isolation
- B. Authentication
- C. Hardening
- D. Authorization

**Answer:** A

#### Explanation:

Client-side virtualization guest machines require isolation from other guest machines to maintain their security. Isolation ensures that each virtual machine is separated from others and runs its own operating system and applications, making it less vulnerable to attacks from other guest machines. References: CompTIA A+ Certification Exam Objectives 220-1002 - Virtualization and cloud computing - 4.1

#### NEW QUESTION 109

- (Topic 1)

Which of the following describes the operational difference between hubs and switches when transmitting data to a specific computer inside the network?

- A. Switches only send data to the specific computer, while hubs send data to all computers inside the network.
- B. Switches compress data while hubs send uncompressed data
- C. Switches receive data and route it to all computers inside the network while hubs receive data and do not route
- D. Switches scramble data, while hubs send data in the original form.

**Answer:** A

#### Explanation:

Switches only send data to the specific computer, while hubs send data to all computers inside the network. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 323

#### NEW QUESTION 111

- (Topic 1)

A user working in the field reported the GPS stopped working on a phone. The user's older, in-car GPS continued to function. Later, the user reported that the phone's GPS started working again. Which of the following MOST likely caused the phone's GPS to fail?



- A. The cell phone was in conservation mode
- B. The cell phone had lost service to the earner
- C. The eel phone received a firmware update
- D. The cell phone had overheated

**Answer:** B

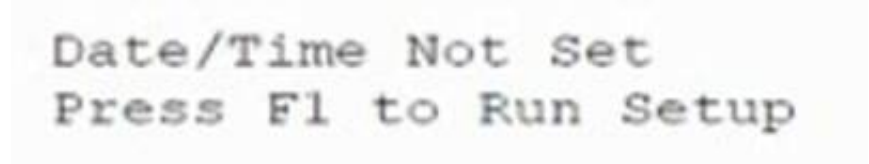
**Explanation:**

The phone's GPS may fail due to a loss of service from the carrier, which provides the phone with GPS location data. The fact that the in-car GPS continued to function suggests that the issue was related to the phone, not the GPS satellites. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 372

**NEW QUESTION 115**

- (Topic 1)

An end user reports that the time and date on a desktop resets after shutdown, and subsequently, the device reboots. The next day, the desktop does not load the OS and is stuck at a black screen with the following message:



Which of the following would be the BEST action to take next?

- A. Change the motherboard.
- B. Reseat the motherboard power connections.
- C. Replace the CMOS battery.
- D. Restore the BIOS to factory default settings.

**Answer:** C

**NEW QUESTION 117**

- (Topic 1)

While using a popular videoconferencing program, the user selects a webcam, but the software is unable to open the webcam. The webcam was working the previous day. Which of the following should be done to address this issue?

- A. Close other video software and retry.
- B. Adjust the conference software to a compatible resolution.
- C. Switch the video from the webcam to "conference" mode.
- D. Reseat or replace the webcam.

**Answer:** A

**Explanation:**

One possible solution to address the issue of a webcam not working with a videoconferencing program is to close other video software and retry (option A). It's possible that another video software program is currently using the webcam and preventing the videoconferencing program from accessing it. By closing any other video software that may be running on the computer, the user can ensure that the webcam is available for use by the videoconferencing program.

**NEW QUESTION 119**

- (Topic 2)

The owner of a restaurant reports that wireless network connections are lost intermittently throughout the day. Which of the following steps should a technician take to troubleshoot the issue? (Select TWO).

- A. Identify the location of devices that utilize 2.4GHz.
- B. Check to see if the phones are IJTP or STP lines.
- C. Test to see if the copper electrical Wires are causing interference.
- D. Map all of the wireless signals in the restaurant.
- E. Verify T568B is being used in the wiring closet patch panel.
- F. Schedule timed router reboots throughout the day.

**Answer:** AD

**Explanation:**

The correct answers are A. Identify the location of devices that utilize 2.4GHz and D. Map all of the wireless signals in the restaurant. In order to troubleshoot the issue, the technician should first identify the location of devices that utilize the 2.4GHz frequency, as this can cause interference with the wireless signal. Additionally, the technician should map all of the wireless signals in the restaurant in order to identify any potential sources of interference. Checking to see if the phones are IJTP or STP lines, testing to see if the copper electrical wires are causing interference, verifying T568B is being used in the wiring closet patch panel, and scheduling timed router reboots throughout the day are not necessary steps for troubleshooting this issue.

**NEW QUESTION 120**

- (Topic 2)

Which of the following network devices would an administrator use to distribute traffic evenly throughout multiple nodes?

- A. Load balancer
- B. Bridge
- C. Proxy server
- D. Switch
- E. Firewall

**Answer:** A

**Explanation:**

A load balancer is a network device that distributes network or application traffic across multiple servers to ensure that no single server bears too much of the load. Load balancing helps to improve application availability, increase scalability, and optimize resource utilization.

A bridge is used to connect two different networks, often to divide a larger network into smaller segments. A proxy server is used to forward client requests to other servers, and can also be used to cache frequently requested data. A switch is used to connect multiple devices within a network and to control the flow of network traffic. A firewall is used to secure a network by controlling incoming and outgoing traffic based on defined security rules.

Reference: CompTIA A+ Core 1 Exam Guide, page 244.

**NEW QUESTION 125**

- (Topic 2)

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

- A. 802.11ac
- B. 802.11ax
- C. 802.11b/g/n
- 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 127**

- (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 131**

- (Topic 2)

A user is installing a new display on a desktop computer that only has a single DVI port for video input and a single HDMI port for video output. Which of the following does the technician need to complete the setup?

- A. Digital-to-analog converter
- B. A/V switcher
- C. DisplayPort to HDMI adapter
- D. DVI to HDMI cable

**Answer:** D

**Explanation:**

The technician will need to connect the DVI port on the computer to the new display's HDMI port. To do this, a DVI to HDMI cable will be needed. This type of cable will allow the computer's DVI video signal to be transmitted to the new display's HDMI port.

A digital-to-analog converter (DAC) is used to convert a digital signal to an analog signal. An A/V switcher is used to switch between multiple audio and video sources and display them on a single monitor or display. A DisplayPort to HDMI adapter is used to convert a DisplayPort signal to an HDMI signal, but it is not necessary in this scenario as the computer has a DVI port and not a DisplayPort.

Reference: CompTIA A+ Core 1 Exam Guide, page 199.

**NEW QUESTION 136**

- (Topic 2)

A technician recently discovered the 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 probable 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 138

- (Topic 2)

Which of the following are default ports for HTTP and HTTPS traffic? (Select TWO).

- A. 23
- B. 25
- C. 80
- D. 143
- E. 389
- F. 443

**Answer:** CF

#### NEW QUESTION 142

- (Topic 2)

A user is trying to play a DVD on a projector. The user can hear the audio; however, the projector is showing an error message that states:

HDMI Blocked due to Copy Protection

Which of the following is the MOST likely cause of the error?

- A. The HDMI cannot carry the signal from the DVD to the projector.
- B. The user needs to switch from HDMI to a cable standard such as DisplayPort.
- C. The projector does not support the necessary HDCP protocol.
- D. The user needs to enable cony-protected sources in the projector's settings.

**Answer:** C

#### Explanation:

The Official CompTIA® A+® Core 1 and Core 2 Student Guide (Exams 220-

1001 and 220-1002) | 193 Protected content. If you encounter an error that indicates unauthorized content or an HDCP error: • DVI, HDMI, DisplayPort, and Thunderbolt all provide support for the Digital Rights Management (DRM) mechanism High-bandwidth Digital Content Protection (HDCP). HDCP allows a content source (such as a Blu-ray disc) to disable itself if the display adapter and monitor and/or speaker system do not support HDCP and fail to authenticate themselves with the playback source. There have been various iterations of HDCP (at time of writing the current version is 2.2) and backward- compatibility can be problematic as authentication may fail between devices that support different versions of the standard.

#### NEW QUESTION 145

- (Topic 2)

The Chief Executive Officer wants to ensure company data is stored in a manner that provides the company with complete control over how the data is managed.

Which of the following is the BEST cloud deployment model for this request?

- A. Community
- B. Hybrid
- C. Public
- D. Private

**Answer:** D

#### Explanation:

A private cloud deployment model provides the company with complete control over how the data is managed. This is because a private cloud is managed solely by the organization and resides on-premises or in a data center. Therefore, a private cloud deployment model is the best option for this scenario.

#### NEW QUESTION 148

- (Topic 2)

A client wants to connect an external keyboard to an Android tablet. Which of the following connection types are appropriate for this task? (Select TWO).

- A. DVI
- B. Infrared
- C. Lightning
- D. USB-C
- E. PS/2
- F. Bluetooth

**Answer:** DF

#### Explanation:

The appropriate connection types for connecting an external keyboard to an Android tablet are USB-C and Bluetooth.

#### NEW QUESTION 149

- (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 153**

- (Topic 2)

Which of the following network services allows a networked device to always be assigned the same IP address based on the device's MAC address?

- A. DHCP
- B. LDAP
- C. UTM
- D. DNS

**Answer:** A

**Explanation:**

Dynamic Host Configuration Protocol (DHCP) allows a networked device to always be assigned the same IP address based on the device's MAC address. DHCP can also assign other network configuration settings to devices automatically.

**NEW QUESTION 156**

- (Topic 2)

Which of the following options provides correct information about 2.4GHz and 5GHz wireless frequencies? (Select TWO)

- A. 2.4GHz has less interferenc
- B. 5GHz transmits inlower speed.
- C. 2.4GHz penetrates solid objects more effectivel
- D. 5GHz provides faster data connections.
- E. 2.4GHz has a higher data rat
- F. 5GHz has 23 channels.
- G. 2.4GHz has ll channel
- H. 5GHz has no data interference.
- I. 2.4GHz has a higher coverage are
- J. 5GHz has higher bandwidth.
- K. 2.4GHz has a higher bandwidt
- L. 5GHz has lower transmit power.

**Answer:** BE

**Explanation:**

The correct answers are B. 2.4GHz penetrates solid objects more effectively. 5GHz provides faster data connections and E. 2.4GHz has a higher coverage area. 5GHz has higher bandwidth. The 2.4GHz frequency has a lower data rate compared to 5GHz, but it can penetrate solid objects more effectively and has a higher coverage area. The 5GHz frequency, on the other hand, provides faster data connections and has higher bandwidth, but it has fewer channels and lower transmit power.

**NEW QUESTION 159**

- (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 163**

- (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 167

- (Topic 2)

A company wants to give third-party developers access to the corporate network through desktop environments that the company can control. Which of the following can BEST achieve these requirements?

- A. Sandbox
- B. VDI
- C. Private cloud
- D. SaaS

**Answer:** B

#### Explanation:

VDI is a technology that allows a company to provide desktop environments to third-party developers while still maintaining control over the corporate network. VDI creates virtual desktops on a remote server, and each user gets their own desktop environment that is isolated from the other users. This allows the company to maintain control over the corporate network, as the virtual desktops are not directly connected to the corporate network.

#### NEW QUESTION 171

- (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 176

- (Topic 2)

A technician is adding one more line at the demarcation point. Which of the following tools would be MOST useful to accomplish this task?

- A. Toner
- B. Punchdown
- C. Network tap
- D. Crimper

**Answer:** B

#### Explanation:

Punchdown tools are used to connect wires to keystone jacks, patch panels and other communication hardware. When adding a new line at the demarcation point, a technician would use a punchdown tool to punch the wire into the keystone jack or patch panel, completing the connection.

#### NEW QUESTION 177

- (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 180**

- (Topic 2)

A technician is preparing to set up a gaming computer with the following components:

? Discrete, high-end graphics card

? Video capture card

? High-end processor

? Multiple hard drives

? USB 3.0 hub

? Sound card

Which of the following options is the MOST important for the technician to consider before building the gaming computer?

A. Redundant power supply

B. Modular power supply

C. 20-pin v

D. 24-pin power adapter

E. Power supply wattage rating

**Answer: D**

**Explanation:**

This is because high-end graphics cards, processors, and multiple hard drives require a significant amount of power to operate. A power supply with insufficient wattage could cause stability issues or even damage the components.

The CompTIA A+ Core1 certification guide emphasizes the importance of selecting an appropriate power supply for a computer build. In addition to wattage, other factors to consider when selecting a power supply include efficiency, modularity, and the number and type of connectors required to power the components.

However, of the options listed, the wattage rating is the most critical consideration.

Therefore, the technician should ensure that the power supply they select has a wattage rating that is sufficient to power all the components in the gaming computer. It is always a good practice to select a power supply with a wattage rating that exceeds the estimated power usage of t

**NEW QUESTION 185**

- (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 190**

- (Topic 2)

A technician is selling up a projector (or a videoconferencing system. When the user all empts to connect a laptop to the system, the system displays the following error message.

No source found

The user tries multiple cables and inputs on the projector. Which of the following should the user try NEXT?

A. Check the bulb on the projector and replace it with a new one.

B. Check the display settings on the computer and set them to extend/duplicate.

C. Replace the projector with another known-good one and try again.

D. Replace the video card on the machine that is plugged in to the projector, as it has gone bad.

**Answer: B**

**Explanation:**

If a user is unable to connect a laptop to a projector or videoconferencing system and sees the error message "No source found," the next step should be to check the display settings on the computer and set them to extend/duplicate. This will ensure that the laptop's display is being output to the external device. References: CompTIA A+ Certification Exam Guide, pg. 514

**NEW QUESTION 194**

- (Topic 2)

A technician is working on a critical warehouse machine that will not turn on. The technician has determined the power supply for the machine failed. The warehouse manager is looking for a solution that will prevent downtime in the future. Which of the following devices should the technician install to meet this requirement?

A. Grounded power supply

B. Modular power supply

C. 220V power supply

D. Redundant power supply

**Answer:** D

**Explanation:**

A redundant power supply is a device that provides two or more power supplies connected in parallel so that when one fails, the other one will take over to ensure continuous power. This is ideal for critical warehouse machines that require a reliable power source and are at risk of downtime in the event of a power failure. Installing a redundant power supply will help to reduce the chances of an unexpected power outage and keep the machine running.

**NEW QUESTION 197**

- (Topic 2)

A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer. Which of the following should the technician do to remove the old filament and load the new one?

- A. Preheat the nozzle to melting temperature.
- B. Cut a sharp angle on the end of the strand.
- C. Push the filament along until resistance is felt.
- D. Withdraw the filament and remove the spool.

**Answer:** D

**Explanation:**

A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer. To remove the old filament and load the new one, the technician should preheat the nozzle to melting temperature. After the nozzle is heated, the technician should withdraw the filament and remove the spool. Then, cut a sharp angle on the end of the new strand, and push it along until resistance is felt.

**NEW QUESTION 200**

- (Topic 2)

A technician is setting up a laptop with an encrypted hard drive. The laptop will securely store a PIN that the user will input at log-on. Which of the following must be installed to set up this configuration?

- A. TPM
- B. HSM
- C. UEFI
- D. ARM

**Answer:** A

**Explanation:**

TPM stands for Trusted Platform Module, and it is a special chip installed on a computer's motherboard that stores encryption keys, passwords, and digital certificates. It can also securely store a user's PIN, allowing them to access the laptop without having to enter the PIN every time they log on. TPM is a secure way to store and protect sensitive data, making it ideal for use in laptops that need to securely store a PIN.

**NEW QUESTION 202**

- (Topic 2)

A technician installed a new router at a small office. After the Installation, the technician notices that all devices have a 169.254.x.x IP address. Printers and fileshares are still working, but PCs cannot access the Internet. Which of the following should the technician configure on the router to enable devices to connect to the internet?

- A. APIPA
- B. DNS
- C. DHCP
- D. SMB

**Answer:** C

**Explanation:**

To enable devices to connect to the internet after installing a new router at a small office, the technician should configure DHCP (Dynamic Host Configuration Protocol) on the router. DHCP is a network protocol that automatically assigns IP addresses and other network configuration parameters to devices on a network. By configuring DHCP on the router, the technician can ensure that all devices on the network are assigned a valid IP address that allows them to connect to the internet.

If all devices have a 169.254.x.x IP address, this suggests that the router is not assigning IP addresses to the devices using DHCP (Dynamic Host Configuration Protocol). Configuring the DHCP settings on the router can enable the devices to receive IP addresses automatically and access the internet. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition, Chapter 14

**NEW QUESTION 204**

- (Topic 2)

A user wants a second monitor installed on a laptop. The VGA/DVI or HDMI cables have already been connected. Which of the following should the technician do to configure the laptop to show both screens?

- A. Power cycle the laptop.
- B. Plug in the monitor to the USB port.
- C. Adjust the monitor display settings.
- D. Power cycle the monitor.

**Answer:** C

**Explanation:**

To configure the laptop to show both screens, the technician should adjust the monitor display settings. On Windows 10 or 11, the technician can select the Start menu, then open Settings, then select Display. The PC should automatically detect the monitors and show the desktop. If the monitors are not detected, the technician can select Multiple displays, then Detect. The technician can then use the dropdown list next to the image of the desktop to choose how the screen will project across the displays12345.

#### NEW QUESTION 207

- (Topic 2)

A user creates a support ticket to report a conference room projector that does not work. The user says that even though the provided cables are being used, the projector screen shows the following error message:

No signal input

Which of the following describes the FIRST action that should be taken?

- A. Verify that the projector is turned on.
- B. Verify that the user is using an approved OS.
- C. Replace the projector bulb.
- D. Check the video cable and replace it if necessary.

**Answer:** D

#### Explanation:

The most common reasons you may be seeing the "No Signal" message: The projector and the source device are not connected correctly.

The first action should be to check the video cable and replace it if necessary, as the error message suggests that the projector is not receiving a signal from the laptop. Verifying that the projector is turned on and checking the bulb would come after verifying the video cable.

#### NEW QUESTION 210

- (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 212

- (Topic 2)

A technician is troubleshooting a projector that will not display any Images. The technician has verified the computer output and cable are providing a good video signal. Which of the following should the technician do NEXT?

- A. Calibrate the image.
- B. Replace the bulb.
- C. Test the output resolution.
- D. Clean the fans.

**Answer:** C

#### Explanation:

The MOST efficient next step the technician should do is to test the output resolution1. The issue of a projector that will not display any images could be related to the output resolution1. If the output resolution is not compatible with the projector, the projector will not display any images1. Calibrating the image, replacing the bulb, or cleaning the fans may not be effective1.

If a projector is not displaying any images despite verifying that the computer output and cable are providing a good video signal, the technician should test the output resolution. The output resolution of the computer may not be compatible with the projector, which can cause the projector to not display any images.

#### NEW QUESTION 216

- (Topic 2)

A systems administrator is attempting to resolve a ticket regarding an issue with an email server. The administrator is covering for a coworker who was previously working on the ticket. The coworker already gathered facts about the issue and spoke with users concerning their missing emails. The coworker also discovered the email server's retention policy was updated shortly before users first noticed the issue. Which of the following should the systems administrator do NEXT to resolve the email issue?

- A. Escalate the ticket to a higher level to resolve the email server issue.
- B. Test a theory to determine the cause of the email server issue.
- C. Establish a theory of probable cause for the email server issue.
- D. Create a plan of action to resolve the email server issue.

**Answer:** C

#### Explanation:

Before attempting to resolve the issue, it is important to first determine the cause or probable cause of the issue, so that a plan of action can be developed. In this case, the fact that the retention policy was updated shortly before users first noticed the issue suggests that this could be the cause of the issue. The systems administrator should investigate this further to determine if this is indeed the cause of the email server issue.

#### NEW QUESTION 219

- (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 224

- (Topic 2)

A technician set up a new access point and has noticed significant latency on the selected channel. Which of the following tools can assist with locating the BEST channel to use?

- A. Wi-Fi analyzer
- B. Netstat
- C. Net use
- D. Traceroute
- E. Network tap

**Answer:** A

#### Explanation:

A Wi-Fi analyzer is a tool that can be used to scan the local area for available wireless networks and can provide information such as signal strength, interference, and available channels. It can also be used to locate the best channel to use for a given access point, which can help to reduce latency and improve performance.

#### NEW QUESTION 227

- (Topic 2)

A technician receives a ticket that states a mobile payment device is having issues with its contactless payment feature. The device is not detecting payment options. Which of the following is the MOST likely cause of the issue?

- A. NFC
- B. Bluetooth
- C. Wi-Fi
- D. Lightning adapter

**Answer:** A

#### Explanation:

NFC (Near Field Communication) is the technology used for contactless payment features on mobile payment devices. If a mobile payment device is having issues with its contactless payment feature and is not detecting payment options, it is most likely due to an issue with the NFC functionality of the device. The contactless payment feature on a mobile payment device uses NFC (Near Field Communication) to detect payment options. If the device is not detecting payment options, the issue may be related to a problem with the NFC feature. References: <https://www.techopedia.com/definition/31790/near-field-communication-nfc>

#### NEW QUESTION 229

- (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 231

- (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 234**

- (Topic 3)

A technician responds to a user who has reported that a laptop is too hot. The technician notices the laptop is not able to sit level on the workspace. What of the following BEST describes the issue with the laptop?

- A. The docking station is improperly installed.
- B. The hard drive is disconnected.
- C. The CPU fan is too powerful.
- D. The battery is damaged.

**Answer:** D

**Explanation:**

A damaged battery can cause a laptop to overheat and swell, making it unable to sit level on the workspace. A swollen battery can also pose a fire hazard and damage other components of the laptop, such as the motherboard or keyboard. The technician should replace the battery as soon as possible and dispose of it properly according to local regulations. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 25)

**NEW QUESTION 238**

- (Topic 3)

A customer called the help desk to request information about how to increase the volume on a laptop using only a keyboard. Which of the following keys would MOST likely allow this to be done?

- A. Alt
- B. Fn
- C. Tab
- D. Ctrl

**Answer:** B

**Explanation:**

To increase the volume on a laptop using only a keyboard, a user can press and hold down the Fn key while pressing one of the function keys (usually F1-F12) that has an icon representing volume up.

**NEW QUESTION 243**

- (Topic 3)

A help desk technician plugged in a user's new computer to a network port. After a few minutes the computer showed an APIPA address. Which of the following is the MOST likely reason this happened?

- A. The WLAN is disabling the NIC card.
- B. The network cable is not attached.
- C. The PC is unable to contact a DHCP server.
- D. The DHCP server is using addresses in the range of 169.254.254.1.

**Answer:** C

**Explanation:**

The most likely reason for a computer showing an APIPA address after being plugged into a network port is that the PC is unable to contact a DHCP server. Automatic Private IP Addressing (APIPA) is a DHCP fail-safe that protects a computer system from failure. It invokes a standby mechanism for local Internet Protocol version 4 (IPv4) networks supported by Microsoft Windows. With APIPA, DHCP clients can obtain IP addresses even when DHCP servers are not functional. The other options are less likely to be the cause of the issue.

**NEW QUESTION 245**

- (Topic 3)

A user reports that a computer will not turn on. The technician verifies the power cord and the outlet the computer are plugged into are both working properly. Which of the following is the hardware component that has MOST likely failed?

- A. PSU
- B. CPU
- C. RAM
- D. GPU

**Answer:** A

**Explanation:**



The power supply unit (PSU) is the component that converts AC power from the outlet to DC power for the computer. If the PSU fails, the computer will not turn on. The CPU, RAM, and GPU are not directly related to the power supply and would not prevent the computer from turning on.

#### NEW QUESTION 246

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

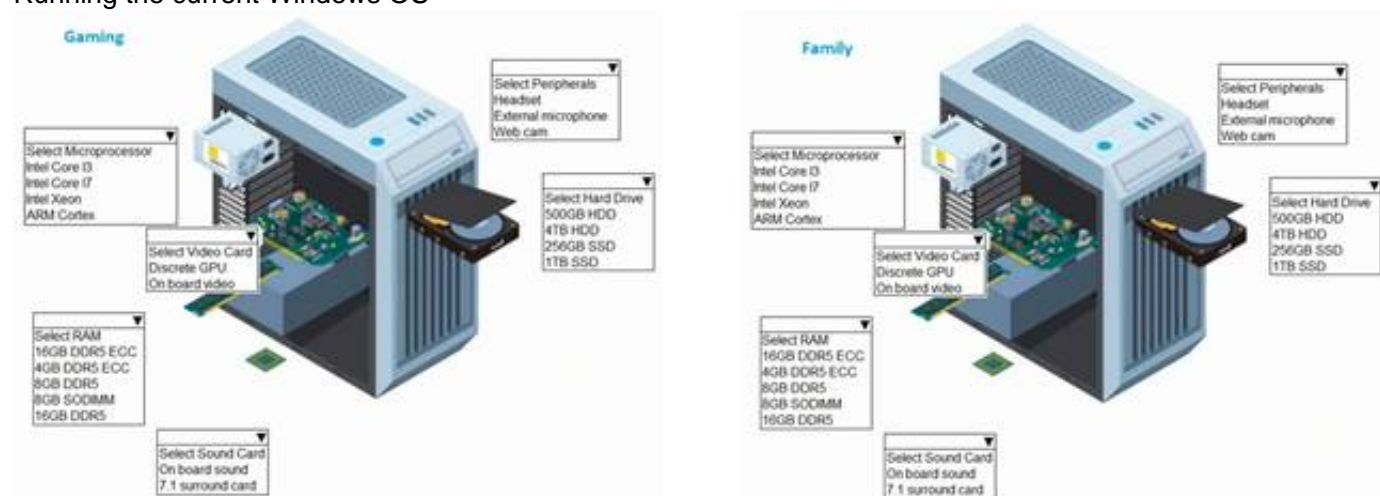
Enough storage to have several games installed at once High-end audio

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

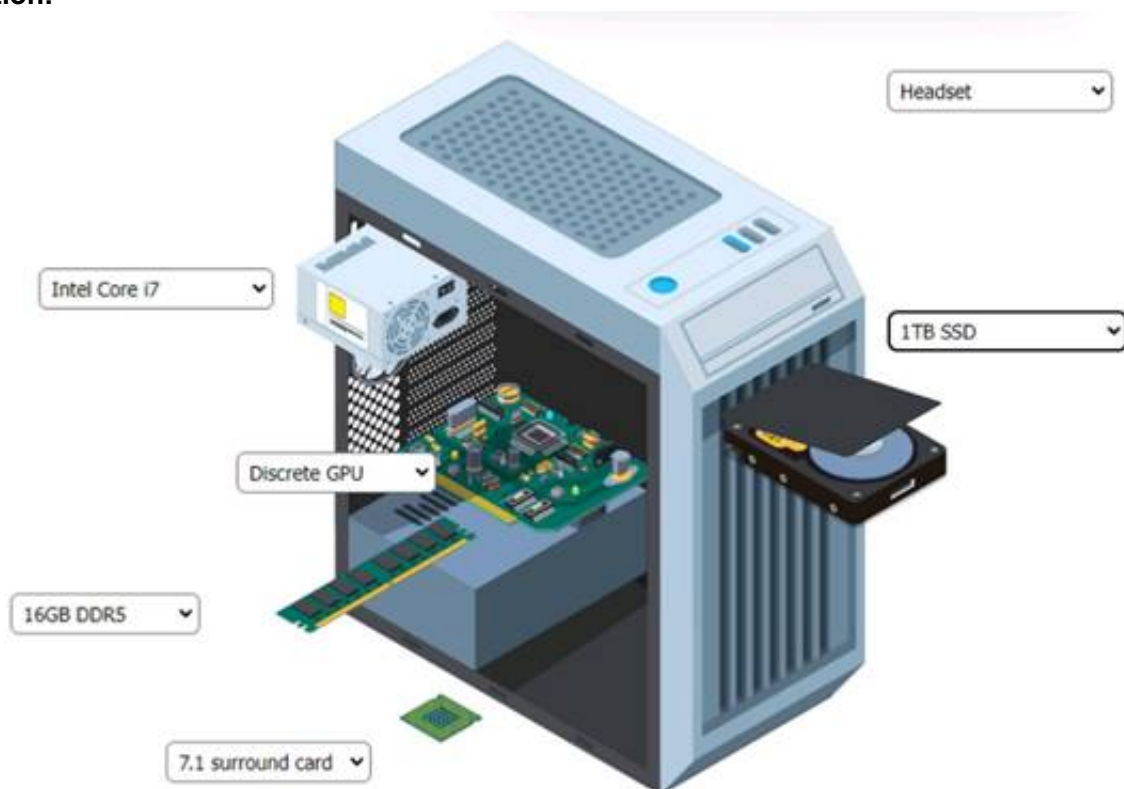
Running the current Windows OS



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 251

- (Topic 3)

A technician who works in a high-security environment needs to set up a laptop with triple monitors for a new security employee. All USB ports are disabled due to security policies. Which of the following should the technician do to BEST meet the requirements?

- A. Install a splitter cable
- B. Install a discrete graphics card.
- C. use an HDMI switch.
- D. Implement a docking station.

Answer: D

Explanation:

This is because a docking station can connect multiple monitors to a laptop without using USB ports, which are disabled in this scenario. A splitter cable would only allow two monitors to be connected, not three. A discrete graphics card would require opening the laptop and installing hardware, which may not be feasible or allowed in a high- security environment. An HDMI switch would only allow one monitor to be active at a time, not all three simultaneously.

#### NEW QUESTION 255

- (Topic 3)

New memory modules were installed in several Windows desktops but some users are still reporting performance issues. Upon investigation, a systems administrator notices the desktop has not recognized the new memory modules. Which of the following should the systems administrator perform to help resolve this issue?

- A. Configure appropriate settings within the BIOS
- B. Replace the RAM
- C. Modify the boot.ini file.
- D. ini file.
- E. Install the required drivers through the Control Panel

**Answer:** A

#### Explanation:

To resolve the issue of new memory modules not being recognized, the systems administrator should configure appropriate settings within the BIOS. This can include enabling memory mapping or setting memory speed and timings. References: CompTIA A+ Certification Exam Objectives, 220-1001 Section 1.8  
Configure appropriate settings within the BIOS. If new memory modules were installed in several Windows desktops but some users are still reporting performance issues and the desktop has not recognized the new memory modules, the systems administrator should configure appropriate settings within the BIOS to help resolve this issue.

#### NEW QUESTION 260

- (Topic 3)

Following a scheduled power outage, users report they cannot access the local intranet. A technician is able to ping the IP address of the server that is hosting the website. Which of the following services is MOST likely offline?

- A. Web
- B. DNS
- C. File
- D. DHCP

**Answer:** B

#### Explanation:

DNS stands for Domain Name System and is a service that translates domain names (such as www.example.com) into IP addresses (such as 192.168.1.100) that computers can use to communicate over a network. If the DNS server is offline, users may not be able to access websites or other network resources by using their domain names, even if they are online and reachable by their IP addresses. The technician should check if the DNS server is running and configured correctly, or use an alternative DNS server if possible. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 81)

#### NEW QUESTION 261

- (Topic 3)

A technician 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 264

- (Topic 3)

A user's Windows computer started running slowly after the installation of a CAD program. The computer has intermittent timeouts and often has to be rebooted to restore functionality. The computer seems to work correctly if the application is not running. Which of the following should the technician do NEXT to help troubleshoot the issue? (Select TWO).

- A. Replace the video card.
- B. Research the requirements of the application.
- C. Install a new case fan.
- D. Run chkdsk on the HDD.
- E. Check the Event Viewer logs.
- F. Reinstall the application.

**Answer:** BE

#### Explanation:

The technician should research the requirements of the CAD program to see if the computer meets them or needs any upgrades or updates to run it properly. The technician should also check the Event Viewer logs to see if there are any errors or warnings related to the application or system performance that could indicate the cause of the problem or suggest a solution. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (pages 43, 47)

#### NEW QUESTION 266

- (Topic 3)

An end user needs to upgrade the hard drive on a laptop and wants one that is fast and shock resistant. Which of the following is the BEST option for this end user?

- A. Hybrid HDD/SSD
- B. 5,400rpm HDD
- C. 7,200rpm HDD
- D. NVMe SSD

**Answer:** D

#### Explanation:

A non-volatile memory express (NVMe) solid state drive (SSD) is the best option for an end user who wants to upgrade the hard drive on a laptop and wants one that is fast and shock resistant. NVMe SSDs use flash memory and PCIe interface to achieve high performance and low latency. SSDs are also more shock resistant than hard disk drives (HDDs) because they have no moving parts. Hybrid HDD/SSD combines both technologies but does not offer the same speed or capacity as pure SSDs. A 5,400rpm HDD or a 7,200rpm HDD are slower and less shock resistant than SSDs.

#### NEW QUESTION 271

- (Topic 3)

A technician is preparing laptops for deployment to a medical department. The laptops require SSD-level encryption to be enabled, but BitLocker refuses to turn it on. An error message states that a BIOS-level setting has not been turned on. Which of the following should the technician check FIRST when troubleshooting this issue?

- A. Recorder the priority in Windows Boot Manager.
- B. Check to make sure Secure Boot is turned on.
- C. Ensure that the Trusted Platform Module enabled.
- D. Verify that the latest updates are installed.

**Answer:** C

#### Explanation:

The Trusted Platform Module (TPM) is a hardware component that provides cryptographic functions and secure storage for encryption keys, passwords, and certificates. BitLocker requires a TPM to be enabled and activated in the BIOS or UEFI settings of the laptop in order to use SSD-level encryption. The technician should check that the TPM is enabled and activated before trying to turn on BitLocker. Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 34)

#### NEW QUESTION 275

- (Topic 3)

A technician is on site troubleshooting a customer's laptop. The technician needs to download a software update but the company's proxy is blocking updates. Which of the following would be the MOST appropriate action for the technician to take to get the update?

- A. Connect to a hotspot
- B. Request a traffic exemption.
- C. Change the DNS address to 1.1.1.1
- D. Update the Group Policy settings

**Answer:** B

#### Explanation:

If a technician is on site troubleshooting a customer's laptop and needs to download a software update but the company's proxy is blocking updates, the most appropriate action for the technician to take would be to request a traffic exemption from the company's IT department.

#### NEW QUESTION 280

- (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 secure. 1. Swapping cables with a screen that works is not likely to be the correct option.

#### NEW QUESTION 282

- (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 wiring 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 287**

- (Topic 3)

An IT manager is evaluating ticket resolution times. While reviewing the data, the manager notices repetitive issues are taking longer than expected to resolve. Which of the following changes should the manager implement to resolve repetitive issues more quickly?

- A. Require the technicians to spend more time testing theories to determine the root causes of issues.
- B. Require the technicians to verify full system functionality when resolving issues.
- C. Require the technicians to gather more information when speaking with users about issues.
- D. Require the technicians to document the findings, action, and outcomes of issues.

**Answer:** D

**Explanation:**

By documenting the findings, action, and outcomes of issues, the technicians can create a knowledge base that can be used to resolve similar issues in the future more quickly and efficiently. The documentation can also help identify patterns or trends that can lead to preventive measures or root cause analysis. Documenting the issues can also improve communication and collaboration among technicians and users, as well as provide evidence of service quality and performance.

Reference: <https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 4)

**NEW QUESTION 289**

- (Topic 3)

A new HD webcam's image only updates one or two times per second. The specifications indicate the webcam is capable of updating 30 frames per second. Which of the following is MOST likely causing the issue?

- A. The USB 2.0 port has insufficient bandwidth.
- B. The Thunderbolt connector is not compatible.
- C. The VGA cable does not support a digital signal.
- D. The connection should — instead of STP.

**Answer:** A

**Explanation:**

The USB 2.0 port has insufficient bandwidth to support a high-definition webcam that can update 30 frames per second. USB 2.0 has a maximum theoretical bandwidth of 480 Mbps, which may not be enough for HD video streaming. The user should try using a USB 3.0 port or a Thunderbolt connector, which have higher bandwidths and can support HD webcams. The Thunderbolt connector is compatible with USB devices, so it is not the cause of the issue. The VGA cable and the STP cable are not related to the webcam, as they are used for video output and network connection respectively.

**NEW QUESTION 293**

- (Topic 3)

A desktop support technician receives an escalated ticket regarding a computer that displays the following message upon booting up: The amount of system memory has changed. Which of the following components is failing?

- A. GPU
- B. HDD
- C. RAM
- D. CPU

**Answer:** C

**Explanation:**

The message "The amount of system memory has changed" indicates that there is a problem with the random access memory (RAM) modules in the computer. The RAM may be loose, faulty, or incompatible with the motherboard or other components. The GPU, HDD, and CPU are not directly related to system memory and would not cause this message to appear.

**NEW QUESTION 298**

- (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 302

- (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 306

- (Topic 3)

To which of the following should a technician connect individual pairs of a Cat 6 cable in order to provide a connection to a switch?

- A. Access point
- B. Patch panel
- C. Hub
- D. Firewall
- E. Wall jack

**Answer:** B

#### Explanation:

A patch panel is a mounted hardware unit containing ports used to manage cable connections. The individual pairs of a Cat 6 cable are terminated on the patch panel, which then provides a central location for cable management and organization. The patch panel is then connected to the switch using a patch cable.

#### NEW QUESTION 310

- (Topic 3)

A bank wants to leverage cloud computing but would like a cloud solution in which infrastructure is isolated from other businesses. Which of the following cloud models would BEST address the bank's need?

- A. Public
- B. Hybrid
- C. Private
- D. Community

**Answer:** C

#### Explanation:

A private cloud is a cloud computing model that provides services and resources to a specific organization or group over a private network. A private cloud can offer more security and control than other cloud models, as well as customized infrastructure that suits the organization's needs. A bank would most likely choose a private cloud model to leverage cloud computing while maintaining isolation from other businesses. A public cloud is a cloud computing model that provides services and resources to anyone over the internet. A hybrid cloud is a combination of public and private cloud services that share data and resources.

#### NEW QUESTION 315

- (Topic 3)

A technician needs to install RAM into a rackmount server that will be used as a VM host. Which of the following would be BEST to install?

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

**Answer:** D

#### Explanation:

When installing RAM into a server that will be used as a VM host, it is recommended to install ECC (Error-Correcting Code) RAM to help prevent errors that can cause virtual machines to crash. References: <https://www.servermonkey.com/blog/ecc-vs-non-ecc-ram-what-are-the-differences.html>

When installing RAM into a rackmount server that will be used as a VM host, it would be best to install ECC (Error Correcting Code) RAM which can detect and correct common types of data corruption.

#### NEW QUESTION 317

- (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 319**

- (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 322**

- (Topic 3)

A user reports a tablet restarts on its own every five to ten minutes. In addition, the tablet has intermittent issues with charging. The technician gives the user a new power adapter and charging cable, and the technician also tries resetting the OS. but the issue persists. Which of the following is the MOST likely cause of the issue?

- A. Water damage
- B. Incorrect OS version
- C. Faulty battery
- D. Damaged charging port

**Answer:** C

**Explanation:**

A faulty battery could cause a tablet to restart on its own and have intermittent issues with charging. Water damage could also cause these symptoms, but it is not the most likely cause unless there is evidence of liquid exposure. Incorrect OS version could cause compatibility or performance issues, but not charging problems. Damaged charging port could prevent the tablet from charging, but not cause it to restart randomly.

**NEW QUESTION 323**

- (Topic 3)

A virtual file server in the cloud is configured to automatically add compute resources during times of high load on the server. Which of the following describes this cloud feature?

- A. File synchronization
- B. High availability
- C. Rapid elasticity
- D. Shared resources

**Answer:** C

**Explanation:**

Rapid elasticity is a cloud feature that allows cloud services to scale up or down automatically according to demand or load on the server, without requiring manual intervention or configuration changes by users or administrators. This enables cloud services to provide optimal performance and efficiency at all times, as well as reducing costs by only using resources when needed. Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 98)

**NEW QUESTION 326**

- (Topic 3)

Which of the following virtualization technologies allows Linux and Windows operating system to run concurrently?

- A. Test environment
- B. Sandbox
- C. Legacy OS
- D. Cross-platform

**Answer:** D

**Explanation:**

Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 59)

**NEW QUESTION 328**

- (Topic 3)

Which of the following cables should be used to terminate ST connectors on each end?

- A. Optical fiber
- B. Coaxial
- C. Shielded twisted pair
- D. HDMI

**Answer:** A

**Explanation:**

Optical fiber is the type of cable that should be used to terminate ST connectors on each end. ST connectors are commonly used for fiber optic cables, which transmit data using light pulses. Coaxial, shielded twisted pair, and HDMI are not types of cables that use ST connectors, but different types of connectors and transmission methods.

**NEW QUESTION 330**

- (Topic 3)

A user's touch-screen tablet is having an issue with the screen orientation. Which of the following is MOST likely causing this issue?

- A. The screen rotation is locked
- B. The screen protector on the tablet is damaged
- C. The touch-screen digitizer is malfunctioning
- D. The inverter is misconfigured

**Answer:** A

**Explanation:**

The screen rotation is locked. If a user's touch-screen tablet is having an issue with screen orientation, it could be due to screen rotation being locked in device settings.

If the screen rotation is locked, the touch-screen tablet will not rotate the screen when the device is turned. This can usually be unlocked in the settings or by pressing a specific key combination. References: <https://www.howtogeek.com/254132/how-to-enable-screen-rotation-on-windows-10/>

**NEW QUESTION 334**

- (Topic 3)

A company uses legacy accounting software, and no replacement is available. Which of the following virtualization solutions will the company MOST likely select?

- A. Network
- B. Storage
- C. Desktop
- D. Sandbox

**Answer:** D

**Explanation:**

A sandbox is a virtualization solution that allows a legacy application to run in an isolated environment without affecting other applications or systems. A sandbox can emulate an older operating system or hardware configuration that is compatible with the legacy software. A hybrid cloud is a combination of public and private cloud services that share data and resources. Infrastructure as a service is a cloud computing model that provides servers, storage, networking, and software over the internet. Public cloud is a cloud computing model that provides services and resources to anyone over the internet. Private cloud is a cloud computing model that provides services and resources to a specific organization or group over a private network.

**NEW QUESTION 339**

- (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 troubleshoot multiple times in the future.

**NEW QUESTION 340**

- (Topic 3)

A salesperson is using a weather application on a mobile device. The application appears to be draining the device's battery very quickly. Which of the following is the BEST action for the salesperson to take in order to view weather forecasts while traveling?

- A. Enable the GPS service to ensure accurate location detection.
- B. Update the PRL when getting to a new location.
- C. Configure less location checks using cellular location services,
- D. use the offices' Wi-Fi IP addresses as the geolocation mechanism.

**Answer:** C

**Explanation:**

The best action for the salesperson to take in order to view weather forecasts while traveling and minimize the battery drain on their mobile device is to configure fewer location checks using cellular location services. This can be done by adjusting the settings for the weather application to limit how often it checks for updates and uses location services. This will help to conserve the battery on the device and keep the application from consuming too much power.

**NEW QUESTION 341**

- (Topic 3)

A technician is configuring a desktop computer, and the hard drive must be encrypted. Which of the following will the technician need to verify is enabled to complete this configuration?

- A. ATX
- B. NIC
- C. TPM
- D. ARM

**Answer:** C

**Explanation:**

TPM stands for Trusted Platform Module, which is a hardware component that securely stores encryption keys and other sensitive data<sup>12</sup>. TPM can be used to enable hard drive encryption, which is a technology that encrypts the data stored on a hard drive using sophisticated mathematical functions<sup>34</sup>. Hard drive encryption protects the data from unauthorized access in case the hard drive is lost, stolen, or tampered with.

**NEW QUESTION 345**

- (Topic 3)

A technician is working with a user to set up scanning. The user requires the scans to be viewable on the network for the entire department. Which of the following settings on the MFP should the technician edit to BEST address the user's request?

- A. Scan to email
- B. Server message block
- C. Secured prints
- D. Web services
- E. Printer share

**Answer:** B

**Explanation:**

Server message block (SMB) is the setting on the multifunction printer (MFP) that the technician should edit to best address the user's request of making the scans viewable on the network for the entire department. SMB is a network protocol that allows file sharing and printer access among different devices on a network. The technician can configure the MFP to scan to a shared folder on the network using SMB. Scan to email is a feature that allows the MFP to send scanned documents as email attachments, which may not be viewable by everyone in the department. Secured prints is a feature that allows the MFP to print documents only after entering a PIN or password, which does not address the user's request. Web services is a feature that allows the MFP to access online services such as cloud storage or email, which may not be viewable by everyone in the department either. Printer share is not a setting on the MFP, but a feature that allows a device to share its printer with other devices on a network

**NEW QUESTION 347**

- (Topic 3)

An organization keeps receiving spam that appears to come from its own domain No accounts have been compromised. Which of the following will BEST mitigate this issue?

- A. DNS
- B. S/MIME
- C. SPF
- D. SSID

**Answer:** C

**Explanation:**

The BEST solution to mitigate spam that appears to come from an organization's own domain is to implement SPF (Sender Policy Framework). SPF is an email validation protocol designed to detect and prevent email spoofing, which is a common tactic used by spammers. By publishing SPF records in the organization's DNS (Domain Name System), the recipient's mail server can check if an incoming email originated from a valid source. If the email fails SPF authentication, it can be blocked or flagged as spam. Therefore, SPF helps to prevent email spoofing and mitigate the risk of spam coming from an organization's own domain

**NEW QUESTION 348**

- (Topic 3)

A user is traveling to another country and will be unable to get personal cell phone service after the plane lands. Which of the following should the user update to resolve the issue?

- A. CDMA
- B. PRL
- C. MDM
- D. GPS

**Answer:** B

**Explanation:**

Updating the preferred roaming list (PRL) is what a user should do to resolve the issue of being unable to get personal cell phone service after traveling to another

country. The PRL is a database that contains information about cell towers and frequencies that a phone can use in different areas. Updating the PRL can improve the phone's ability to connect to local networks and avoid roaming charges. CDMA is a type of cellular technology that uses code division multiple access to transmit data over radio frequencies. MDM is an acronym for mobile device management, which is a type of software solution that allows remote management and security of mobile devices. GPS is an acronym for global positioning system, which is a satellite-based navigation system that provides location and time information

#### NEW QUESTION 349

- (Topic 3)

A technician is upgrading a computer OS from Windows 7 to Windows 10. During the OS installation, the system is not able to find the hard drive. Which of the following can the technician do to MOST likely fix the issue?

- A. Change the partition to MBR
- B. Load the HDD drivers using a flash drive.
- C. Upgrade the RAM modules.
- D. Replace the hard drive.

**Answer:** B

#### Explanation:

Loading the hard disk drive (HDD) drivers using a flash drive is the most likely action that can fix the issue of a computer not being able to find the hard drive during an OS installation from Windows 7 to Windows 10. The HDD may have a different interface or controller than what Windows 10 supports by default, such as SATA or RAID, which would require loading additional drivers during the installation process. The technician can use a flash drive to load the drivers from another device or source. Changing the partition to MBR, upgrading the RAM modules, or replacing the hard drive are not likely to fix the issue, as they are not related to the HDD drivers

#### NEW QUESTION 354

- (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.

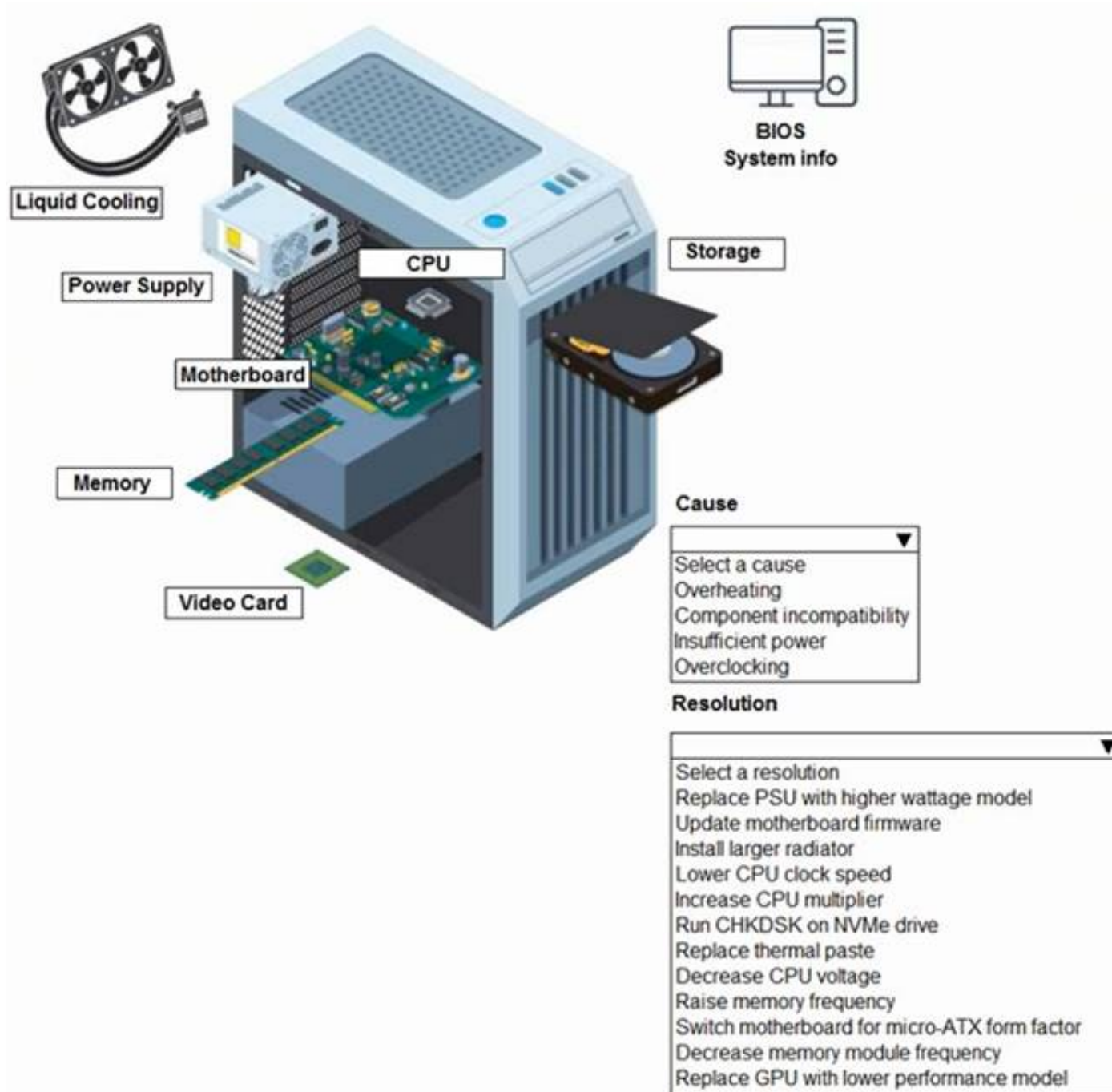
#### NEW QUESTION 356

HOTSPOT - (Topic 3)

A customer built a computer for gaming, sourcing individual components and then assembling the system. The OS starts up, but within a few minutes the machine locks up.

The customer brought the computer to a technician to diagnose the issue.





- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

correct answer is "Overclocking" and "Reduce CPU Clock speed" CPU is at 4.5 Ghz when normal is 3.2 Ghz. Overclocking too much can cause freezes, and this is a gaming computer so the user probably took it too far. <http://blog.logicalincrements.com/2018/12/4- troubleshooting-tips-overclocking-pc/>

**NEW QUESTION 357**

- (Topic 3)

A user has noticed high CPU temperatures when gaming. The user would like to lower the CPU temperature, and cost is not an issue. Which of the following should the user do to BEST cool the CPU while keeping noise to a minimum?

- A. Upgrade the thermal paste.
- B. Use a copper heat sink.
- C. Upgrade the CPU fan.
- D. Install liquid cooling.

Answer: D

**Explanation:**

Liquid cooling is a method of cooling the CPU by circulating a liquid through a closed loop that absorbs heat from the CPU and transfers it to a radiator. Liquid cooling is more effective and quieter than air cooling, which uses a fan and a heat sink. However, liquid cooling is also more expensive and complex to install. Upgrading the thermal paste, using a copper heat sink, or upgrading the CPU fan are ways to improve air cooling, but they will not lower the CPU temperature as much as liquid cooling. References: <https://www.comptia.org/certifications/a#examdetails> <https://www.comptia.org/blog/what-is- liquid-cooling>

**NEW QUESTION 359**

- (Topic 3)

A user wants RAID to be configured on a desktop to allow the fastest speed and maximum storage capacity. Which of the following RAID types should a technician configure to accommodate this request?

- A. 1
- B. 5
- C. 10

Answer: A

**Explanation:**

RAID 0 is a configuration that stripes data across multiple disks without parity or redundancy. It provides the fastest speed and maximum storage capacity among the RAID types listed, but it also has no fault tolerance. RAID 1 mirrors data across two disks, providing redundancy but halving the storage capacity. RAID 5 stripes data across three or more disks with parity, providing fault tolerance but reducing the storage capacity by one disk. RAID 10 combines mirroring and striping across four or more disks, providing both speed and redundancy but reducing the storage capacity by half.

#### NEW QUESTION 361

- (Topic 3)

Which of the following components houses the MX record?

- A. DNS
- B. VLAN
- C. DHCP
- D. SMTP

**Answer:** A

#### Explanation:

The MX record is housed in the DNS (Domain Name System) which is responsible for translating domain names into IP addresses and vice versa. The MX record specifies the mail server responsible for accepting email messages on behalf of a domain name and is a resource record in the DNS123.

#### NEW QUESTION 362

- (Topic 4)

A user dropped a laptop while it was turned on. The hard drive now makes a clicking sound, and the laptop will not start up. Which of the following most likely explains this situation?

- A. The hard drive bracket screws are loose.
- B. The hard drive jumpers need to be reseated.
- C. The hard drive is damaged.
- D. The SATA cable is loose.

**Answer:** C

#### Explanation:

A clicking hard drive is usually a sign of a mechanical failure, where the read/write heads are not functioning properly or the platters are scratched or broken. This can be caused by physical shock, such as dropping the laptop while it was turned on. A damaged hard drive may not be able to boot up the operating system or access the data stored on it. This is a serious problem that requires data recovery and hard drive replacement.

References

Identifying Hard Drive Sounds and Determining What They Mean Hard Drive Clicking? See How to Fix Click Hard Drive On Your Own Chapter 3: Hardware

#### NEW QUESTION 365

- (Topic 4)

A user with an older laptop is unable to connect to the office network after new access points were installed. The user confirms that from home the laptop can connect wirelessly to the network. Which of the following should the user do to quickly resolve the issue?

- A. Connect a new USB adapter.
- B. Install a new SSD
- C. Connect a new biometric device.
- D. Install a new Bluetooth card.

**Answer:** A

#### Explanation:

A USB adapter is a device that can plug into a USB port on a laptop and provide wireless connectivity to a network. A USB adapter can support different wireless standards, such as 802.11a, 802.11b, 802.11g, 802.11n, or 802.11ac. A USB adapter can also support different wireless frequencies, such as 2.4 GHz or 5 GHz. In this case, the user with an older laptop may not be able to connect to the office network after new access points were installed because the laptop's built-in wireless card does not support the same wireless standard or frequency as the new access points. For example, if the new access points use 802.11ac and 5 GHz, and the laptop's wireless card only supports 802.11g and 2.4 GHz, the laptop will not be able to communicate with the access points.

To quickly resolve this issue, the user should connect a new USB adapter that supports the same wireless standard and frequency as the new access points. This way, the user can bypass the laptop's wireless card and use the USB adapter to connect to the office network wirelessly.

Reference: CompTIA A+ Core 1: Cable Types & Connectors

#### NEW QUESTION 369

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