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QUESTION 1

A technician replaces a laptop hard drive with an M.2 SSD. When the technician reboots the laptop, the laptop does not detect the SSD. Which of the following should the technician configure for the system?

- A. HSM
- B. Boot options
- C. UEFI settings
- D. TPM

Correct Answer: C

Explanation: UEFI stands for Unified Extensible Firmware Interface, and it is a type of firmware that controls the boot process of a computer. UEFI settings allow the technician to configure various aspects of the boot process, such as the boot order, the boot mode, and the security options. If the technician replaces a laptop hard drive with an M.2 SSD, they may need to adjust the UEFI settings to enable the system to detect and boot from the new drive.

QUESTION 2

The cloud model that represents a company maintaining some data in on-premise storage and some data in cloud-based storage is known as:

- A. hybrid
- B. private
- C. public
- D. community

Correct Answer: A

QUESTION 3

A user is requesting a headset that can be physically connected to a laptop for online conference calls. Which of the following connections should the headset use?

- A. Bluetooth
- B. DVI
- C. Thunderbolt
- D. USB

Correct Answer: D

Explanation: A USB (universal serial bus) connection is the most suitable option for a headset that can be physically

connected to a laptop for online conference calls. A USB connection is a digital interface that can transfer both power and data between devices using a standard cable. A USB headset can plug into any available USB port on the laptop and communicate with the audio and microphone drivers without requiring additional software or hardware. A USB headset can also offer enhanced features, such as inline controls, noise cancellation, surround sound, or LED lighting, depending on the model and manufacturer. Other connections, such as Bluetooth, DVI, or Thunderbolt, are not appropriate for a headset that can be physically connected to a laptop. Bluetooth is a wireless technology that uses radio waves to pair devices over a short distance, and it requires a battery or a charger for the headset. DVI (digital visual interface) is a video interface that can transmit digital or analog signals between a display device and a video source, and it is not compatible with audio or microphone devices. Thunderbolt is a high-speed interface that can support multiple protocols, such as DisplayPort, USB, or PCI Express, and it requires a special cable and port that may not be available on all laptops. References: How to set up and use a headset on Windows 10 | Windows Central¹ How to Connect a Headset to a Computer² USB - Wikipedia

QUESTION 4

When a page that was printed on a laser printer is touched, the image on the paper smears. Which of the following is most likely the cause of this issue?

- A. Duplexing assembly
- B. Fuser
- C. Toner
- D. Transfer belt

Correct Answer: B

The fuser is the part of a laser printer that uses heat and pressure to fuse the toner to the paper. If the fuser is defective or not hot enough, the toner may not adhere properly and smear when touched. The duplexing assembly, toner, and transfer belt are not related to this issue.

Reference: Official CompTIA learning resources CompTIA A+ Core 1 and Core 2, page 11.

QUESTION 5

A technician has been asked to fix a problem with a projector. The projector lamp turns off for brief periods during a demonstration. After the technician replaced the lamp, the problem continued with an added message that appears just before the lamp turns off. Which of the following MOST likely need to be performed? (Choose two.)

- A. Reset the lamp life counter
- B. Replace the cooling fan
- C. Adjust the brightness
- D. Update the laptop video driver
- E. Install a higher lumen lamp
- F. Change the video resolution

Correct Answer: AB

QUESTION 6

A customer brings a phone to a repair shop because it is experiencing extreme slowness and applications are crashing. A technician attempts to install a diagnostic application, but the installation fails. Which of the following should the technician do FIRST to troubleshoot the issue?

- A. Check the storage space.
- B. Inspect the screen for damage.
- C. Install the latest updates.
- D. Recalibrate the digitizer.

Correct Answer: A

One of the possible causes of extreme slowness and application crashes on a phone is low or insufficient storage space. This can affect the performance and functionality of the phone, as well as prevent new applications from being installed

or updated. The technician should check the storage space on the phone and see if there is enough free space available for the diagnostic application and other operations. The technician should also advise the customer to delete or move

any unnecessary or unused files, apps, or data from the phone to free up some space. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page10)

QUESTION 7

Which of the following is the SAFEST way to replace RAM on a server that has a redundant power supply?

- A. Unplug one power cable.
- B. Verify the RAM temperature.
- C. Utilize a grounding strap.
- D. Replace the RAM while the server is running.

Correct Answer: C

Utilizing a grounding strap is the safest way to replace RAM on a server that has a redundant power supply. This is because the grounding strap prevents electrostatic discharge (ESD) when handling the RAM, which can cause damage to the RAM and the server. Therefore, it is important to always use a grounding strap when handling RAM or other sensitive components.

QUESTION 8

A technician unboxed a new computer, plugged it in to a UPS. and connected the requested peripherals. The computer lights and fans turn on, but the technician hears three loud, consecutive beeps during boot. Which of the following actions will remediate the issue?

- A. Replacing the power supply
- B. Replacing the UPS
- C. Changing the CMOS battery
- D. Reseating the RAM

Correct Answer: D

Three beeps indicate a "base memory read/write test error". Check out "beep codes" for more information.

https://en.wikipedia.org/wiki/Power-on_self-test#POST_beep_codes_on_CompTIA_A.2B_certification_exam

QUESTION 9

An analyst asks a technician to recommend a solution for a customer in the software development industry, where the customer can test a variety of OS's running the various applications that the customer produces. The customer wants to minimize the investment in hardware.

Which of the following solutions should the technician recommended to BEST meet the customer's requirement?

- A. Purchase a number of low-cost devices, installing the required Oss and applications on each one. Use separate machines for each testing environment.
- B. Purchase a high-end system meeting the hardware requirements for all of the individual Oss and applications. Configure a VM for each testing environment.
- C. Purchase one computer and create images for each computer configuration and OS. Re-image the machine for each testing environment.
- D. Purchase a number of computers, installing a VM on each one. Configure each VM with an OS for the testing environment.

Correct Answer: B

QUESTION 10

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.

Correct Answer: A

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.

QUESTION 11

A user is looking for a top-of-the-line gaming computer but is prone to motion sickness. The user wants to be able to talk to players and participate the game without using a keyboard. Which of the following should a technician recommend? (Choose two.)

- A. Speakers
- B. VR headset
- C. Headset
- D. Protector
- E. Game controller
- F. Microphone

Correct Answer: CE

QUESTION 12

A user's desktop computer is connected via an Ethernet cable and often drops the connection. When the computer does connect, the network speeds are normal. No other network users on the same floor are reporting issues. The administrator verified that all authentication systems are working as intended and the Ethernet cable was replaced. Which of the following is the most likely cause of the issue?

- A. Slow network speeds
- B. Port flapping
- C. Limited connectivity
- D. 802.1X configuration

Correct Answer: B

Explanation: Port flapping, also known as link flapping, is a network issue that causes a switch port's state to fluctuate between up and down within short periods of time. This instability affects network connectivity and performance. Port flapping can be caused by various factors, such as faulty cables, hardware issues, configuration issues, or other network issues¹². In this scenario, the user's desktop computer is connected via an Ethernet cable and often drops the connection, while no other network users on the same floor are reporting issues. The administrator verified that all

authentication systems are working as intended and the Ethernet cable was replaced. Therefore, the most likely cause of the issue is port flapping on the switch port that connects to the user's computer. References

1: Port flapping ?Definition, common causes, and troubleshoot ...

2: Solved: Port Flapping Issue - Cisco Community

QUESTION 13

A 3-D printer is printing objects that are all unintentionally curved on the bottom. Which of the following should be replaced to best resolve this issue?

- A. Filament
- B. Print bed
- C. Corrupt driver
- D. Resin

Correct Answer: B

QUESTION 14

Which of the following wireless standards can operate in the 6GHz frequency range?

- A. 802.11ac
- B. 802.11ax
- C. 802.11g
- D. 802.11n

Correct Answer: B

Explanation: The correct answer is B. 802.11ax.

802.11ax, also known as Wi-Fi 6 or Wi-Fi 6E, is the latest wireless standard that can operate in the 6GHz frequency range. This standard was approved by the IEEE in February 2021 and offers higher throughput, lower latency, and improved efficiency compared to previous standards¹ The 6GHz frequency range spans from 5.925 GHz to 7.125 GHz and provides 1200 MHz of additional spectrum for Wi-Fi devices. This means that Wi-Fi 6E can support more channels, wider bandwidths, and less interference than the existing 2.4 GHz and 5 GHz bands. Wi-Fi 6E can access up to 59 20-MHz channels, 29 40-MHz channels, 14 80-MHz channels, or 7 160-MHz channels in the 6GHz band¹ 802.11ac, also known as Wi-Fi 5, is the previous wireless standard that can only operate in the 5GHz frequency range. It was approved by the IEEE in December 2013 and offers faster speeds and better performance than older standards. However, it cannot use the new spectrum in the 6GHz band and has limited channel availability and capacity in the crowded 5GHz band² 802.11g and 802.11n are older wireless standards that can only operate in the 2.4GHz frequency range. They were approved by the IEEE in June 2003 and October 2009, respectively, and offer lower speeds and performance than newer standards. They also suffer from more interference and congestion in the saturated 2.4GHz band, which is shared by many other devices and technologies³

QUESTION 15

A software developer used client-side virtualization on a server to configure a web application. Although the application is working locally on the software developer's PC, other users on the LAN are not able to access the application.

Which of the following would allow other users to access the application?

- A. Bridge networking
- B. Application virtualization
- C. Virtual desktop
- D. Site-to-site VPN

Correct Answer: A

Client-side virtualization is used to run an application or process on a separate virtual machine, isolated from the main operating system. To allow other users on the LAN to access the application, the software developer should configure a bridge networking connection between the virtual machine and the LAN. This will allow the virtual machine to communicate with other computers on the network. Application virtualization, virtual desktop, and site-to-site VPN are not necessary steps for allowing other users to access the application.

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