Question 1

A technician is upgrading a user's laptop from an HDD to an SSD. The user's laptop only has a single bay for a hard drive. Which of the following characteristics of the SSD is the most important in this scenario?

Options:

A- Partition type

B- Storage size

C- Form factor

D- Transferspeed

Answer:

C

Explanation:

When upgrading a laptop's storage from an HDD to an SSD, especially in laptops with only a single bay for a hard drive, the most critical characteristic to consider is the form factor. The form factor must match the physical dimensions and interface of the original HDD to ensure that the SSD can fit into the bay and connect properly. Storage size (B) is important for capacity reasons, transfer speed (D) affects performance, and partition type (A) is a software configuration aspect, but the form factor (C) is crucial for the physical compatibility of the SSD with the laptop.

CompTIA A+ Core 1 Exam Objectives Section 3.3: Given a scenario, select and install storage devices.

Question 2

Question Type: **MultipleChoice**

Which of the following differentiates PAN from LAN?

Options:

A- PAN creates a wireless connection between smart devices.

B- PAN creates a highly secure environment.

C- PAN creates a faster connection.

D- PAN needs regular maintenance to function properly.

Answer:

A

Explanation:

A Personal Area Network (PAN) is designed to connect devices in close proximity, typically within a few meters, often using wireless technologies like Bluetooth. This allows for the interconnection of smart devices such as smartphones, tablets, and wearables within an individual's personal space. Unlike a Local Area Network (LAN), which covers a larger geographical area such as a home or office building and can support wired and wireless connections, a PAN specifically facilitates wireless connections between personal devices.

CompTIA A+ Core 1 Exam Objectives Section 2.7: Compare and contrast Internet connection types, network types, and their features.

Question 3

Question Type: **MultipleChoice**

A user reports that files are taking hours to transfer from a device to an external USB drive. The technician confirms that the device's cables are connected and the correct USB port is being used. Which of the following steps should the technician take next when troubleshooting the issue?

Options:

A- Turn off all Bluetooth devices.

B- Update the device drivers.

C- Replace the USB drive.

D- Replace the device's USB port.

Answer:

B

Explanation:

When a device is experiencing slow file transfers to an external USB drive and the physical connections are confirmed to be correct, the next step is to update the device drivers. Outdated or corrupt drivers can cause suboptimal performance and slow transfer speeds. Updating the drivers can resolve these issues and improve the device's communication with the USB drive, leading to faster file transfers.

CompTIA A+ Core 1 Exam Objectives Section 5.0: Hardware and Network Troubleshooting.

Question 4

A user reports that a laser printer's toner does not stick to the paper. The user has tried multiple brands of paper and is unable to print legible documents. Which of the following should be replaced to ensure proper printouts?

Options:

A- Fuser unit

B- Toner distribution sensor

C- Paper charge transformer

D- Toner cartridge

Answer:

A

Explanation:

In laser printing, the fuser unit is responsible for bonding the toner to the paper using heat and pressure. If the toner is not sticking to the paper, resulting in illegible documents despite trying different brands of paper, it indicates a problem with the fuser unit. It might not be reaching the necessary temperature to melt the toner properly, necessitating its replacement to ensure proper printouts.

CompTIA A+ Core 1 Exam Objectives Section 3.7: Given a scenario, install and replace printer consumables.

Question 5

Question Type: MultipleChoice

Which of the following cloud models provides hardware environment equivalent components to develop a solution?

Options:

A- SaaS

B- IaaS

C- PaaS

D- DBaaS

Answer:

B

Explanation:

Infrastructure as a Service (IaaS) provides virtualized computing resources over the internet, including virtualized hardware, storage, and networking components. It offers the infrastructure on which clients can install their operating systems and applications, providing an equivalent to physical hardware environments. This allows developers and businesses to develop and run their solutions without managing physical servers. SaaS delivers software applications over the internet, PaaS provides a platform allowing customers to develop, run, and manage applications, and DBaaS offers database services in the cloud.

CompTIA A+ Core 1 Exam Objectives Section 4.1: Summarize cloud computing concepts.

Question 6

Question Type: **MultipleChoice**

Which of the following protocols can be used to securely access a remote network to troubleshoot various devices?

Options:

A- FTP

B- RDP

C- SSH

D- TFTP

Answer:

C

Explanation:

Secure Shell (SSH) is a protocol used to securely access and manage devices over a network. It provides a secure channel over an unsecured network in a client-server architecture, enabling technicians to perform troubleshooting and management tasks remotely with encryption to ensure the security of the data transmitted. FTP and TFTP are used for file transfers and do not inherently provide the same level of security or direct device management capabilities. RDP is used for remote desktop connections but is not as universally applicable for various devices as SSH.

CompTIA A+ Core 1 Exam Objectives Section 2.1: Compare and contrast Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) ports, protocols, and their purposes.

Question 7

Question Type: MultipleChoice

A technician recently reinstalled a previously virtualized application directly to a user's computer. Now, the application is not launching. Which of the following did the technician most likely do to cause this issue?

Options:

A- Installed the software on the base operating system.

B- Installed the wrong license type.

C- Installed the application with administrator rights.

D- Reset the user's application virtualization session.

Answer:

A

Explanation:

If an application was previously running in a virtualized environment and is not launching after being installed directly on the base operating system, it's possible that the technician did not account for dependencies or configurations specific to the virtualized environment that are not present or are incompatible with the base operating system. This mismatch can prevent the application from launching properly.

CompTIA A+ Core 1 Exam Objectives Section 4.0: Virtualization and Cloud Computing

Question 8

Question Type: **MultipleChoice**

A technician is troubleshooting a laptop that sometimes fails to charge. The technician has already tested the power adapter and determined the connection is good. Which of the following is the most likely cause of the issue?

Options:

A- Defective DC jack

B- Failing cooling fan

C- Bad memory

D- Overheating CPU

Answer:

A

Explanation:

When a laptop sometimes fails to charge despite a good power adapter connection, the most likely issue is a defective DC jack. The DC jack, where the power adapter plugs into the laptop, can become loose or damaged over time, leading to intermittent or failed charging. Cooling fan issues, bad memory, or an overheating CPU would typically lead to different symptoms such as overheating, system crashes, or performance issues, not charging problems.

CompTIA A+ Core 1 Exam Objectives Section 3.0: Hardware

Question 9

Question Type: MultipleChoice

A user's computer is experiencing poor performance. A technician runs a diagnostic tool on the hard drive, and the results show a significant increase in the number of reallocated sectors. Which of the following steps should the technician take next?

Options:

A- Run sfc /scannow on the hard drive.

B- Replace the hard drive.

C- Runchkdsk /f on the hard drive.

D- Reformat the hard drive.

Answer:

B

Explanation:

A significant increase in the number of reallocated sectors on a hard drive is a clear indication that the drive is experiencing physical damage or wear and tear that cannot be repaired through software means. Reallocated sectors are bad sectors that the drive's firmware has marked as unusable and moved data to spare sectors. This is often a precursor to drive failure. Therefore, the most prudent next step is to replace the hard drive to ensure data integrity and system reliability.

CompTIA A+ Core 1 Exam Objectives Section 5.3: Given a scenario, troubleshoot and diagnose problems with storage drives and RAID arrays.

Question 10

Question Type: **MultipleChoice**

A company is deploying tablets to all branch offices. The company needs a way to set security settings and configure which applications can be installed on the tablets. Which of the following is the best way for the company to remotely perform these tasks?

Options:

A- SSH

B- RDP

C- VPN

D- MDM

Answer:

D

Explanation:

Mobile Device Management (MDM) is the best solution for remotely managing security settings and configuring applications on tablets across branch offices. MDM allows administrators to control device security policies, push applications, track device locations, perform remote wipes, and manage many other aspects of mobile devices from a centralized console. While SSH, RDP, and VPN are useful for remote access and secure connections, they do not offer the comprehensive device management and configuration capabilities that MDM provides.

CompTIA A+ Core 1 Exam Objectives Section 2.7: Compare and contrast Internet connection types, network types, and their features.