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**QUESTION 1**

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.

Correct Answer: A

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.

QUESTION 2

A technician configured a new SOHO router for a small business. The ISP gave the technician an IP address on the router's WAN port. Which of the following addresses did the technician most likely configure on the router?

- A. 10.1.50.30
- B. 19.45.7.28
- C. 169.254.168.10
- D. 172.22.40.6

Correct Answer: B

Explanation: This is an example of a public IP address that can be assigned by an ISP to a router's WAN (Wide Area Network) port. A public IP address is a globally unique and routable address that allows a device to communicate with other devices on the internet. A private IP address, such as 10.1.50.30 or 172.22.40.6, is a non-routable address that is used within a local network and cannot be directly accessed from the internet. A link-local IP address, such as 169.254.168.10, is a self-assigned address that is used when a device cannot obtain a valid IP address from a DHCP server. Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 27.

QUESTION 3

A technician is troubleshooting an old desktop system that randomly shows a Windows BSOD or powers off unexpectedly. All system temperatures are within normal limits. Which of the following should the technician do NEXT?

- A. Visually inspect the motherboard capacitors.



- B. Verify all case fans are operational.
- C. Check that the BIOS version supports the installed CPU.
- D. Compare the software requirements with the installed RAM.

Correct Answer: A

BSODs can be caused by poorly written device drivers or malfunctioning hardware, such as faulty memory, power supply issues, overheating of components, or hardware running beyond its specification limits. In the Windows 9x era, incompatible DLLs or bugs in the operating system kernel could also cause BSODs.

QUESTION 4

A user's laptop is running out of disk space and requires a new hard drive. The user wants to replace the existing hard drive with the fastest possible 1 TB HDD. A technician assesses the user's hardware and determines the connections that are available.

Which of the following drive types should the technician recommend as the BEST choice?

- A. 1TB NVMe SSD
- B. 1TB flash drive
- C. 1TB SATA SSD
- D. 1TB SAS

Correct Answer: A

The best choice for the user's laptop is a 1TB NVMe SSD. NVMe (Non-Volatile Memory Express) is a high-performance storage protocol designed specifically for solid-state drives (SSDs). It is significantly faster than SATA SSDs and SAS hard drives, making it ideal for users who need fast storage for their laptop. NVMe SSDs also have lower latency and higher bandwidth than traditional hard drives, making them well-suited for data-intensive tasks such as video editing, gaming, and running multiple applications simultaneously. Additionally, NVMe offers more reliable data reliability than traditional hard drives, and is less susceptible to performance degradation over time.

QUESTION 5

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

Correct Answer: B

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.

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