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Question 1

Question Type: MultipleChoice

After a company upgraded its network infrastructure, a user's desktop has been experiencing slow network speeds. Which of the following should a technician do first to improve desktops connectivity performance?

Options:

- A- Update the NIC drivers
- B- update the BIOS firmware.
- C- Replace the motherboard
- D- Replace the patch cable

Answer:

D

Explanation:

The technician should replace the patch cable that connects the desktop to the network switch or outlet. The patch cable may be damaged or incompatible with the upgraded network infrastructure, which can cause slow network speeds. According to the CompTIA

Core1 objectives, one of the common symptoms of a bad cable is slow transfer speeds. A research paper on network performance also states that cable quality and length can affect network speed.

Question 2

Question Type: MultipleChoice

A technician is setting up a projector for a videoconferencing system. When the user attempts 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?

Options:

- A-** Check the bulb 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 another known-good one and try again.

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

Answer:

B

Explanation:

The user should check the display settings on the computer and set them to extend/duplicate. This will allow the computer to send the video signal to both the laptop screen and the projector. If the display settings are set to only show on one screen, then the projector may not detect any source. According to the CompTIA Core1 objectives, one of the common display issues is no image on screen. A troubleshooting guide for projectors also suggests checking the display settings as a possible solution for no source found error.

Question 3

Question Type: MultipleChoice

A technician needs to configure a firewall to enable network printing. Which of the following network ports should be opened? (Select two)

Options:

- A- 21 (FTP)
- B- 22 (Telnet)
- C- 25 (SMTP)
- D- 515 (LDP)
- E- 631 (IPP)
- F- LPT1

Answer:

D, E

Explanation:

To enable network printing, the firewall needs to open the ports that are used by the network printers and the print servers. Two common ports for network printing are 515 (LDP) and 631 (IPP). LDP stands for Line Printer Daemon Protocol, which is a TCP-based protocol for sending print jobs to a remote printer. IPP stands for Internet Printing Protocol, which is a HTTP-based protocol for managing and monitoring print jobs over the Internet. According to the CompTIA Core1 objectives, one of the network ports that is related to printing is 515. A research paper on network printing also mentions that LDP and IPP are widely used protocols for network printing.

Question 4

Question Type: MultipleChoice

A technician is creating a new RAID array for a customer. After interviewing the customer, the technician decides to implement a RAID array of striping without parity. Which of the following reasons would lead the technician to choose striping without parity instead of striping with parity?

Options:

- A- Uptime is the customer's biggest concern
- B- Speed is the most important consideration.
- C- Redundancy and speed are equally important
- D- Available storage space needs to be maximized

Answer:

B

Explanation:

Speed is the most important consideration. Striping without parity, also known as RAID 0, is a RAID configuration that splits data across multiple disks without any redundancy. This improves the performance of read and write operations, as multiple disks can work in parallel. However, this also increases the risk of data loss, as any disk failure will result in losing all data on the array. Therefore, striping without parity is suitable for situations where speed is prioritized over reliability. According to the CompTIA Core1 objectives, one of the

advantages of RAID 0 is increased speed. A research paper on RAID performance also confirms that RAID 0 has the highest throughput among all RAID levels.

Question 5

Question Type: MultipleChoice

Which of the following explains how using a cloud infrastructure can provide rapid elasticity?

Options:

- A- Shared resources can reduce overhead.
- B- Customers can limit the use of a resource
- C- High availability of services can be provided
- D- Systems can be provisioned according to demand.

Answer:

D

Explanation:

Systems can be provisioned according to demand. This is the essence of rapid elasticity, which is one of the essential characteristics of cloud computing. Rapid elasticity means that cloud services can be scaled up or down quickly and automatically, depending on the changing needs of the customers. This provides flexibility, efficiency, and cost-effectiveness for both the customers and the providers. According to the CompTIA Core1 objectives, one of the benefits of cloud computing is rapid elasticity. A research paper on cloud elasticity also defines it as the ability to dynamically adjust the amount of resources allocated to a service in response to its workload variation.

Question 6

Question Type: MultipleChoice

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

Options:

A- The physical servers are not able to draw enough power

- B-** The physical servers do not have enough network bandwidth.
- C-** The physical servers are throttling due to overheating
- D-** The physical servers are contending for resources

Answer:

C

Explanation:

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

Question 7

Question Type: MultipleChoice

A technician is using a PAN to connect a group of users on a field project. Which of the following services should the technician activate on the mobile device to share the internet data connection?

Options:

- A- Tethering
- B- Pairing
- C- Bluetooth
- D- Hotspot

Answer:

A

Explanation:

The correct answer is

A) Tethering.

Tethering is the process of sharing a mobile device's internet data connection with other devices, such as laptops, tablets, or other phones. Tethering can be done by using a Wi-Fi hotspot, a Bluetooth connection, or a USB cable. A Wi-Fi hotspot creates a wireless network that other devices can join, a Bluetooth connection pairs the devices and allows data transfer, and a USB cable connects the

devices physically and enables data sharing.

A PAN, or personal area network, is a type of network that connects devices within a short range, usually up to 10 meters. A PAN can be used for various purposes, such as transferring files, printing documents, or accessing the internet. A PAN can be created by using Bluetooth, Wi-Fi, or infrared technologies.

A technician can use a PAN to connect a group of users on a field project by using tethering on a mobile device. The technician can activate the tethering service on the mobile device and choose the preferred method of sharing the internet data connection. The other devices can then connect to the mobile device and access the internet through it.

The other options are incorrect because they are not services that can share the internet data connection on a mobile device. Pairing is the process of establishing a connection between two Bluetooth devices, but it does not necessarily share the internet data connection. Bluetooth is a technology that can create a PAN and enable tethering, but it is not a service that can be activated on a mobile device. Hotspot is a term that can refer to a Wi-Fi hotspot created by tethering on a mobile device, but it is not a service that can be activated on its own.

[Share a mobile connection by hotspot or tethering on Android](#)

[How to share a mobile connection by tethering or hotspot on Android](#)

[How to Share Mobile Internet to PC or Other devices](#)

Question 8

Question Type: MultipleChoice

Every time a user tries to print a multipage document, the user is unable to print on both sides of the page. Which of the following settings will most likely resolve this issue?

Options:

- A- Orientation
- B- Duplex
- C- Quality
- D- Print tray

Answer:

B

Explanation:

The correct answer is B. Duplex.

Duplex printing is the process of printing on both sides of a sheet of paper automatically or manually. Duplex printing can save paper, reduce clutter, and create professional-looking documents. To print on both sides of the paper, the printer must support duplex printing or the user must manually reinsert the pages to print the second side.

Orientation is the direction in which the paper is printed, either portrait (vertical) or landscape (horizontal). Orientation does not affect the ability to print on both sides of the paper.

Quality is the resolution or sharpness of the printed image, measured in dots per inch (dpi). Quality does not affect the ability to print on both sides of the paper.

Print tray is the part of the printer that holds and feeds the paper into the printer. Print tray does not affect the ability to print on both sides of the paper.

[To enable duplex printing on a Windows PC, follow these steps1:](#)

Open the document for printing, then select File > Print.

In Settings, select Manually Print on Both Sides, then Print.

Follow the instructions on the screen to flip and reinsert the pages.

[To enable duplex printing on a Mac, follow these steps2:](#)

Open the document for printing, then select File > Print.

In Layout, select Two-Sided, then Long-Edge binding or Short-Edge binding.

Click Print.

[Print on both sides of the paper \(duplex printing\) in Word](#)

[How to Print Double-Sided on a Windows PC or Mac Computer](#)

Question 9

Question Type: MultipleChoice

A restaurant calls the support line about its 3in (2.5cm) point-of-sale printer that is only printing fully black receipts. Which of the following should the technician check in order to resolve the issue? (Select two).

Options:

- A- Power supply
- B- Humidity
- C- Rollers
- D- Fuser
- E- Heating element
- F- Room temperature

Answer:

C, E

Explanation:

The correct answers are C. Rollers and E. Heating element.

A 3in (2.5cm) point-of-sale printer is a type of thermal printer that uses heat to print receipts on special thermal paper. The printer has a heating element that heats up the paper as it passes through the rollers, creating black marks on the paper where the heat is applied. The heating element and the rollers are two critical components of the thermal printer that can affect the quality of the printout.

If the printer is only printing fully black receipts, it means that the heating element is overheating or malfunctioning, causing the entire paper to turn black. The heating element may need to be replaced or repaired by a technician. Alternatively, the rollers may be dirty or damaged, causing the paper to stick to the heating element and get burned. The rollers may need to be cleaned or replaced by a technician.

The other options are not likely to cause the printer to print fully black receipts. The power supply may affect the printer's performance, but it would not cause the heating element to overheat or the rollers to malfunction. The humidity and room temperature may affect the quality of the thermal paper, but they would not cause the entire paper to turn black. The fuser is a component of a laser printer, not a thermal printer, and it has no effect on the point-of-sale printer.

[Basic Printer Troubleshooting -- Individual Point of Sale](#)

[5 Common Issues With Any POS System and How To Fix Them](#)

[Printer Troubleshooting | Square Support Center - US](#)

[Resolve receipt printer issues and cash drawer will not open - QuickBooks](#)

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