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Question: 1

A technician is troubleshooting a connectivity issue on a network computer. The technician runs ipconfig in a command prompt and receives the following IP address:169.254.0.6. Which of the following is most likely the type of IP address being assigned?

A. DHCP reservation assignment
B. Dynamic assignment
C. Self-assignment
D. Static assignment

Answer: C

Explanation:
An IP address starting with169.254.x.xis aself-assigned address(also calledAPIPA– Automatic Private IP Addressing). It's used when a client device cannot contact a DHCP server. This address allows limited communication on the local network segment butno internet access.
Option A:DHCP reservations assign specific IPs from the DHCP server they don't result in APIPA.
Option B:Dynamic assignment from DHCP assigns valid IPs in the proper subnet, not 169.254.x.x.
Option D:Static IPs are manually set and would not fall in the 169.254.x.x range unless set incorrectly.
CompTIA A+ Core 1 Exam Objective Reference:
Objective 2.6: Given a scenario, configure and troubleshoot network connectivity.

Question: 2

A recently installed printer is incorrectly aligning printed documents Which of the following should the technician do first to fix this issue?

A. Run the maintenance application.
B. Clean the rollers
C. Upgrade the firmware
D. Reinstall the drivers

Answer: A

Explanation:
A . Run the maintenance application:

Most modern printers include a built-in maintenance application that can calibrate the print heads and correct alignment issues. Running this tool is the first step to address misalignment.
Incorrect Options:
B . Clean the rollers: Cleaning rollers is typically done to resolve paper feed or jamming issues, not alignment problems.
C . Upgrade the firmware: While updating firmware is beneficial for performance improvements, it is not the first step for fixing alignment.
D . Reinstall the drivers: Misaligned printing is usually hardware-related, not a driver issue.
Key Takeaway: The maintenance application should be run first to resolve alignment issues in a newly installed printer.

Question: 3

An IT specialist compares Bluetooth and NFC technologies for mobile device connectivity. Which of the following statements accurately describes a key difference between the two?

A. NFC is faster than Bluetooth when transferring large files between devices.
B. NFC consumes more power than Bluetooth, making it less suitable for devices in which battery conservation is crucial.
C. NFC requires pairing with the receiving host, whereas Bluetooth just needs the available connection.
D. NFC works best within a few centimeters, but Bluetooth can connect devices that are up to 32ft (10m) apart.

Answer: D

Explanation:
NFC (Near-Field Communication)operates atvery short ranges usually less than 4cm, and is ideal for quick, secure transactions like contactless payments.Bluetoothsupportslonger ranges (up to 10 meters or 32 feet)and is suited for ongoing connections like wireless headsets or file transfers.
Option A:Bluetooth is faster for large file transfers.
Option B:NFC usesless power, not more.
Option C:NFC doesnotrequire pairing Bluetooth does.
CompTIA A+ Core 1 Exam Objective Reference:
Objective 1.5: Given a scenario, connect and configure accessories and ports of mobile devices.
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Question: 4

Which of the following is an advantage of using VDI?

A. Authentication is not required on a domain.
B. Licensing costs are minimized.
C. Less manual configuration is needed for each workstation.
D. A virus is automatically contained locally.

Answer: C

Explanation:
Virtual Desktop Infrastructure (VDI)hosts desktop environments on centralized servers. Thisallowsrapid deployment and consistent configurationacross multiple users, minimizing manual setup and easing IT management.
Option A:VDI still uses standard authentication methods.
Option B:Licensing can actually be more expensive due to virtualization software and backend servers.
Option D:VDI centralizes the desktop environment viruses would affect the virtual session, not be "contained locally."
CompTIA A+ Core 1 Exam Objective Reference:
Objective 4.1: Compare and contrast cloud computing concepts.
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Question: 5

A technician wants to monitor network statistics for devices communicating with one another on the local subnet Which of the following devices should the technician install.

A. Managed switch
B. Router
C. Access point
D. Firewall

Answer: A

Explanation:
A managed switch provides advanced features such as traffic monitoring and VLAN configuration, allowing a technician to view network statistics for devices on the local subnet.
Why Not B (Router): A router connects different networks and directs traffic between them but does not provide detailed subnet-level statistics.
Why Not C (Access point): Access points provide wireless connectivity but lack traffic monitoring features.
Why Not D (Firewall): A firewall filters traffic but is not used for monitoring detailed statistics on a local subnet.
CompTIA A+ Exam Core 1 (220-1201), Section 2.6, network monitoring tools.

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