CompTIA

Exam Questions 220-1201

CompTIA A+ Certification Exam: Core 1

NEW QUESTION 1
- (Topic 1)
An employee who travels worldwide wants a workstation to perform the same whether the workstation is in the corporate office environment or elsewhere. Which of the following should a technician implement?

A. Public cloud
B. VDI
C. SSH
D. SaaS

Answer: B

NEW QUESTION 2
- (Topic 1)
A human resources department uses a network shared with other departments to produce a variety of printed resources for legal retention. The human resources department only wants Its members to have access to these materials. Which of the following should the technician Implement?

A. Security groups
B. Audit logs
C. Time-of-day access
D. Print server

Answer: A

Explanation:
Security groups are used to manage access permissions to network resources, ensuring only authorized HR department members can access the shared materials.
Why Not B (Audit logs): Audit logs monitor activity but do not restrict access.
Why Not C (Time-of-day access): Time-of-day access limits when users can access resources but doesn??t specify user permissions.
Why Not D (Print server): A print server manages print jobs but does not control file access. CompTIA A+ Exam Reference: Core 2 (220-1102), Section 2.5, access control and permissions.

NEW QUESTION 3
- (Topic 1)
A technician is working on a RAID 1 array that is apparently degraded. The technician verifies the RAM and power are both operating as expected. Which of the following can the
technician do to further isolate the issue?

A. Perform individual drive diagnostics.
B. Run the chkdsk /i command.
C. Rebuild the RAID array.
D. Reconfigure the array as RAID 0.

Answer: A

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Adegraded RAID 1array usually meansone of the drives has failed or is failing. The correctnext step is torun diagnostics on each driveto identify the faulty one.
RAID 1 uses mirroring, so one good drive should still contain all the data.
? Option B:chkdsk checks file system integrity, not hardware drive health.
? Option C:Rebuilding should only occurafteridentifying and replacing a faulty drive.
? Option D:RAID 0 offers no redundancy and would destroy data in this context. CompTIA A+ Core 1 Exam Objective Reference:
? Objective 3.5: Given a scenario, troubleshoot problems related to storage devices.

NEW QUESTION 4
- (Topic 1)
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:
Comprehensive and Detailed In-Depth 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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NEW QUESTION 5

- (Topic 1)
Which of the following is an advantage of using a hybrid cloud instead of a public cloud?

A. Ability to reduce management overhead
B. Ability to use cross-platform virtualization
C. Ability to meet data residency requirements
D. Ability to leverage IaaS and PaaS

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A hybrid cloud combines on-premises infrastructure with public cloud services. One significant advantage is that it allows organizations to keep sensitive data in a private environment to meet regulatory or data residency requirements, while still utilizing the scalability and cost-efficiency of the public cloud for other workloads. This ensures compliance with legal mandates about data location.
Reference: "CompTIA A+ Complete Study Guide" by Quentin Docter – Chapter 8, "Virtualization and Cloud Computing", page 488. Also supported in CompTIA A+ Exam
Objectives220-1201under section 4.1.

NEW QUESTION 6
- (Topic 1)
A customer reports a problem connecting to network resources. After asking open-ended questions, the technician determines the issue likely exists on the remote server. Which of the following should the technician do next?

A. Document the findings.
B. Test the theory
C. Gather information
D. Establish a plan of action

Answer: B

Explanation:
After determining the issue is likely on the remote server, the technician should test the theory to confirm the root cause before proceeding.
Why Not A (Document the findings): Documentation comes after confirming the issue. Why Not C (Gather information): Information gathering is already completed. Why Not D (Establish a plan of action): This is done after confirming the issue. CompTIA A+ Exam Reference: Core 2 (220-1102), Section 3.1, troubleshooting methodology.

NEW QUESTION 7
- (Topic 1)
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 Reference: Core 1 (220-1201), Section 2.6, network monitoring tools.

NEW QUESTION 8
- (Topic 1)
A technician is having issues replacing a laptop's wireless card because the cover seems to be stuck Which of the following should the technician do next to troubleshoot this issued

A. Check the product manual for the procedure
B. Use a pry tool to force the cover open
C. Insert the wireless card into the M.2 slot
D. Try to move the cover by sliding it in all directions.

Answer: A

Explanation:
* A. Check the product manual for the procedure:
When hardware is not easily accessible, always consult the product manual for proper disassembly procedures. Forcing the cover can damage the laptop or void the warranty. Product manuals often provide step-by-step instructions for safely accessing internal components.
Incorrect Options:
* B. Use a pry tool to force the cover open: Forcing the cover can cause physical damage to the device.
* C. Insert the wireless card into the M.2 slot: This step cannot be performed until the cover is properly removed.
* D. Try to move the cover by sliding it in all directions: Randomly sliding the cover can cause damage if the correct removal method is not followed.
Key Takeaway: Always refer to the product manual to ensure safe and proper disassembly of laptop components.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 4.1 – Best practices for laptop hardware installation.

NEW QUESTION 9
- (Topic 1)
Which of the following tools is best to track where an Ethernet cable is patched?

A. Crimper
B. Punchdown tool
C. Cable stripper
D. Toner probe

Answer: D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Atoner probe(also known as a tone generator and probe) is the best tool fortracing and identifying cablesin a patch panel or wall jack. The tone generator sends a signal through the wire, and the probe helps locate the cable by detecting the tone.
? Option A (Crimper):Used to attach connectors (e.g., RJ-45), not for tracing cables.
? Option B (Punchdown tool):Used to terminate cables into patch panels or keystone jacks.
? Option C (Cable stripper):Used to remove insulation, not to trace cables. CompTIA A+ Core 1 Exam Objective Reference:
? Objective 5.1: Identify basic cable types, their connectors, and their features.

NEW QUESTION 10
- (Topic 1)
A help desk technician inspects a laptop keyboard because a single key has stopped working. The technician checks the keyboard for debris. Which of the following actions should the technician do next to troubleshoot the issue cost-effectively?

A. Replace the keyboard.
B. Replace the key switch
C. Replace the circuit board.
D. Replace the keycap

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
If only one key is not functioning and debris has been checked, replacing the individual keycap is the most cost-effective next step. It's a simple, low-cost option before considering more extensive repairs like replacing the entire keyboard.
Reference: "CompTIA A+ Complete Practice Tests" by Jeff T. Parker – Chapter 1, Question 10, page 8.

NEW QUESTION 10
- (Topic 1)
A management team is concerned about enterprise devices that do not have any controls in place. Which of the following should an administrator implement to address this concern?

A. MDM
B. MFA
C. vpn
D. SSL

Answer: A

Explanation:
Mobile Device Management (MDM) enables administrators to enforce controls on enterprise devices, such as restricting apps, ensuring compliance, and remotely managing security policies.
Why Not B (MFA): Multi-Factor Authentication secures user access but does not control device configurations.
Why Not C (VPN): VPN secures communication but does not enforce device controls. Why Not D (SSL): SSL secures data in transit but does not provide device management. CompTIA A+ Exam Reference: Core 2 (220-1102), Section 2.7, device management concepts.

NEW QUESTION 13
- (Topic 1)
Which of the following cloud models exclusively utilizes a local data center?

A. Private
B. Public
C. Hybrid
D. Community

Answer: A

Explanation:
Comprehensive and Detailed In-Depth Explanation:
APrivate Cloudis operated solely for a single organization. It ishosted on-premises or in a dedicated off-site data center, giving the company full control over data, security, and compliance — often hosted in theorganization??s own local data center.
? Option B (Public):Hosted by third-party providers and shared by multiple clients.
? Option C (Hybrid):Combines private and public cloud resources.
? Option D (Community):Shared by several organizations with similar goals. CompTIA A+ Core 1 Exam Objective Reference:
? Objective 4.1: Compare and contrast cloud computing concepts.
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NEW QUESTION 14

- (Topic 1)
Which of the following describes the function of an injector?

A. To provide only data connectivity
B. To supply power across a cable
C. To improve wireless performance
D. To extend a network connection

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A PoE injector is used to add power to an Ethernet cable, enabling the cable to deliver both power and data. This is crucial when connecting to PoE-enabled devices like IP cameras or wireless access points that are far from power outlets.
Reference: "CompTIA A+ Complete Practice Tests" by Jeff T. Parker – Chapter 10, Question 77, page 585.

NEW QUESTION 16
- (Topic 1)
Which of the following port numbers are associated with email traffic? (Select two).

A. 23
B. 25
C. 67
D. 110
E. 137
F. 443

Answer: BD

Explanation:
Comprehensive and Detailed Step-by-Step Explanation:
To answer this question, we need to identify the port numbers associated with email protocols used in client-server communication.
Port 25 (SMTP - Simple Mail Transfer Protocol):
This port is primarily used for sending emails between mail servers and from mail clients to mail servers (sending outbound mail).
SMTP is an essential protocol for email traffic.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 2.5 – Explain basic wired and wireless networking concepts, including ports and protocols.
Port 110 (POP3 - Post Office Protocol v3):
POP3 is used for retrieving emails from a mail server. It is commonly used for downloading email messages to a local client, after which the messages are deleted from the server.
While not as commonly used today (due to IMAP being preferred), POP3 is still a recognized email protocol, and its association with port 110 makes it a valid answer.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 2.5 – Explain basic wired and wireless networking concepts, including ports and protocols.
Incorrect Options:
* A. Port 23: This is the Telnet protocol used for remote terminal access. It is not related to email traffic.
* C. Port 67: This port is associated with the DHCP (Dynamic Host Configuration Protocol) server-to-client communications. It is unrelated to email.
* E. Port 137: This port is part of NetBIOS, used for name resolution in legacy Windows environments. It is not relevant to email traffic.
* F. Port 443: This port is used for HTTPS (secure web traffic) and is unrelated to email protocols.
Key Takeaway:The two correct port numbers associated with email traffic are B. 25 (SMTP) for sending emails and D. 110 (POP3) for retrieving emails.

NEW QUESTION 17
- (Topic 1)
A technician is troubleshooting a desktop PC that is plugged into a UPS. The PC loses the system date/time after every power outage. Which of the following should the technician do to resolve the issue? (Select two).

A. Run a BIOS update.
B. Swap out the RAM.
C. Disable NTP in the OS.
D. Repair the backup power source.
E. Replace the CMOS battery
F. Install a surge protector.

Answer: DE

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The system date/time is maintained by the CMOS battery when the PC is powered off. If this battery fails, time resets will occur. Additionally, since the system is connected to a UPS, ensuring the UPS is functioning correctly (i.e., the backup power source) is essential. Reference: "CompTIA A+ Complete Study Guide" by Quentin Docter – Chapter 1, page 40.

NEW QUESTION 18
- (Topic 1)
A company needs to keep a record of tasks performed by an application. Which of the following should the company most likely implement as part of a solution?

A. Fileshare
B. Syslog
C. Database
D. SAN

Answer: B

Explanation:
Syslog is used to log system events and tasks performed by applications, providing a centralized record of activity.
Why Not A (Fileshare): Fileshares store files but are not designed for event logging.
Why Not C (Database): Databases can store logs but are not a logging mechanism themselves.
Why Not D (SAN): A SAN is a storage solution, not a logging tool.
CompTIA A+ Exam Reference: Core 1 (220-1201), Section 2.6, system monitoring and logging.

NEW QUESTION 21
- (Topic 1)
A user reported performance issues on a computer after a recent OS update A technician is confident that rolling back the system will resolve the issue. Which of the following steps should the technician take next?

A. Document the findings.
B. Investigate any recent infrastructure changes.
C. Initiate the system restore
D. Verify full system functionality.

Answer: C

Explanation:
* C. Initiate the system restore:
If the technician is confident that rolling back the system to a previous restore point will
resolve the issue, the next logical step is to initiate the System Restore process. System Restore allows the system to revert to a state before the OS update, which can eliminate the performance issues caused by the update.
Incorrect Options:
* A. Document the findings: Documentation is important but should occur after resolving the issue.
* B. Investigate any recent infrastructure changes: This is unnecessary if the issue is already attributed to the OS update.
* D. Verify full system functionality: This step should be performed after the System Restore is completed.
Key Takeaway: When confident that rolling back will resolve the issue, the technician should proceed with initiating a System Restore to revert the OS.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 5.4 – Troubleshooting OS problems.

NEW QUESTION 22
- (Topic 1)
A user prints a spreadsheet in duplex mode. The spreadsheet is difficult to read because some of the columns spill onto the second side of the page. Which of the following should the user do to prevent the issue but still print on both sides of the page?

A. Turn off duplex printing.
B. Try a smaller font size in the spreadsheet.
C. Change the page orientation.
D. Use a different print driver.

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Changing the page orientation(e.g., fromportrait to landscape) allows wider columns to fit on one side of the page. This maintains readability while continuing to use duplex printing.
? Option A:Disabling duplex defeats the goal of printing on both sides.
? Option B:May help, but could make the document harder to read if the font is too small.
? Option D:Unlikely to resolve formatting issues related to layout and dimensions. CompTIA A+ Core 1 Exam Objective Reference:
? Objective 3.7: Given a scenario, troubleshoot common printer problems.

NEW QUESTION 24
- (Topic 1)
Which of the following technologies best allows a phone to connect to a point-of-sale terminal for wireless payments?

A. Bluetooth
B. NFC
C. Wi-Fi
D. Cellular

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Near-field communication (NFC) is a short-distance wireless communication method widely used in mobile payment systems like Apple Pay and Google Pay.
Simply placing the device near a compatible terminal initiates the payment process.
Reference: "Mike Meyers' CompTIA A+ Certification All-in-One Exam Guide" – Chapter 24, page 1022.

NEW QUESTION 26
- (Topic 1)
Which of the following is a Bluetooth network an example of?

A. PAN
B. LAN
C. WAN
D. SAN

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Bluetooth is a wireless technology designed for short-range communication between devices. It is a classic example of a Personal Area Network (PAN), which supports communication between devices like smartphones, headsets, keyboards, and mice within a few meters. PANs are smaller in scope compared to LANs or WANs.
Reference: "CompTIA A+ Complete Study Guide" by Quentin Docter – Chapter 5, "Networking Fundamentals", page 275.

NEW QUESTION 30
- (Topic 1)
Which of the following devices is used to implement ACL polices for an environment?

A. Managed switch
B. Gateway
C. Repeater
D. Firewall

Answer: D

Explanation:
A firewall implements ACLs (Access Control Lists) to filter traffic and enforce policies based on rules such as IP address, port, or protocol.
Why Not A (Managed switch): A managed switch supports VLANs and QoS but does not enforce ACLs at the network perimeter.
Why Not B (Gateway): Gateways connect networks and translate protocols but don??t typically implement ACLs.
Why Not C (Repeater): Repeaters extend signal range but don??t enforce policies. CompTIA A+ Exam Reference: Core 1 (220-1201), Section 2.2, firewall concepts.

NEW QUESTION 31
- (Topic 1)
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:
Comprehensive and Detailed In-Depth 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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NEW QUESTION 36
- (Topic 1)
A user routinely connects and disconnects multiple devices from a laptop. Which of the following options should a technician recommend to facilitate ease of user mobility?

A. Serial interfaces
B. Docking station
C. Network switch
D. USB hub

Answer: B

Explanation:
Reasoning: A docking station is designed to provide a central connection point for multiple peripherals, such as monitors, keyboards, mice, and network cables. It allows users to quickly connect or disconnect all devices by simply docking or undocking their laptop, improving mobility and reducing wear and tear on individual ports.
Why the Other Options Are Incorrect:
* A. Serial interfaces:
Serial interfaces are outdated and rarely used in modern laptops or peripherals. They are not practical for facilitating the connection of multiple devices.
* C. Network switch:
A network switch is used to connect multiple devices to a network, but it does not simplify the connection of peripherals to a laptop.
* D. USB hub:
A USB hub can extend the number of available USB ports but lacks the full functionality of a docking station, such as video output or Ethernet connectivity.
Practical Example:
A user with a laptop, external monitors, keyboard, and mouse can use a docking station to connect all devices with a single action, instead of plugging in each device manually.
CompTIA A+ Exam Objective Alignment:
Objective 5.2: Explain device interfaces, connection types, and usage of docking stations.

NEW QUESTION 40
- (Topic 1)
A user returns from a trip and discovers a computer that is connected to the LAN times out intermittently Upon investigation, a technician finds the RJ45 pin is not

property terminated Which of the following networking tools is most appropriate to fix the issue?

A. Toner probe
B. Cable tester
C. Punchdown
D. Crimper

Answer: D

Explanation:
* D. Crimper:
A crimper is used to terminate an RJ45 cable properly by attaching the connector to the twisted-pair wires.
If the termination is not done correctly, the connection will be intermittent or fail entirely. Incorrect Options:
* A. Toner probe: Used to locate cables or trace their path, not for terminating RJ45 connectors.
* B. Cable tester: Useful for testing connectivity but does not fix termination issues.
* C. Punchdown: Used to connect wires to a patch panel or keystone jack, not for RJ45 connectors.
Key Takeaway: A crimper is the proper tool for fixing an improperly terminated RJ45 connection.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 2.8 – Using
appropriate tools for network troubleshooting.

NEW QUESTION 41
- (Topic 1)
Which of the following printing initiatives would be best to accomplish environmentally friendly objectives?

A. Requiring user authentication for printing
B. Locking down printing to only certain individuals
C. Modifying duplex settings to double-sided
D. Changing the print quality settings to best

Answer: C

Explanation:
Comprehensive and Detailed Step-by-Step Explanation: Modifying duplex settings to double-sided:
Printing on both sides of the paper (duplex printing) reduces paper usage, making it one of the most effective environmentally friendly printing initiatives.
It directly minimizes waste and supports sustainability goals in the workplace. Incorrect Options:
* A. Requiring user authentication for printing: While this can reduce unnecessary or unauthorized printing, it does not directly address environmental objectives like saving resources.
* B. Locking down printing to only certain individuals: Limiting access may reduce printing overall, but it does not actively contribute to environmentally friendly practices like duplex printing.
* D. Changing the print quality settings to best: Using the "best" print quality increases toner or ink usage, which is counterproductive to environmentally friendly objectives.
Key Takeaway:
Modifying duplex settings to enable double-sided printing is the best initiative to achieve environmentally friendly goals by reducing paper consumption.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 3.8 – Implementing
best practices for environmental impact.

NEW QUESTION 42
- (Topic 1)
An end user's domain password expires while they are working from home. The end user tries to reset the password using Ctrl+Alt+Delete and then receives the following message:
Configuration information could not be read from the domain controller, either because the machine is unavailable or because access is denied.
Which of the following will resolve this issue?

A. Restart the computer.
B. Connect to the VPN.
C. Reset the account in Active Directory.
D. Join the Wi-Fi network.

Answer: B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
To change adomain passwordfrom a remote location, the system must communicate with thedomain controller. Since the user is working from home, they need toconnect to the corporate VPNto establish that secure connection. Without it, the password change cannot be authenticated.
? Option A:Restarting will not resolve the lack of connection to the domain controller.
? Option C:Resetting the password in AD could help, but doesn??t let the user reset it themselves.
? Option D:The user may already be on Wi-Fi; the issue is with connecting to thecorporate network, not local.
CompTIA A+ Core 1 Exam Objective Reference:
? Objective 1.6: Given a scenario, configure basic mobile device network connectivity and application support.
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NEW QUESTION 46
- (Topic 1)
A customer reports that the output from their thermal receipt printer has vertical white lines. Which of the following would most likely resolve this issue?

A. Replacing the ink cartridge
B. Using the correct paper type
C. Installing a maintenance kit
D. Cleaning the heating element

Answer: D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Thermal printerscreate images using aheated print headon specially coated thermal paper. Vertical white lines indicate thatpart of the heating element is dirty or blocked, preventing heat transfer to the paper. Cleaning the print head (heating element) will restore full functionality.
? Option A:Thermal printers donot use ink or toner, so this is not applicable.
? Option B:Wrong paper could cause blank output, but consistent vertical lines point to the print head.
? Option C:Maintenance kits are typically for laser printers, not thermal printers. CompTIA A+ Core 1 Exam Objective Reference:
? Objective 3.7: Given a scenario, troubleshoot common printer problems.

NEW QUESTION 48
- (Topic 1)
Which of the following is used primarily for archiving data?

A. PAN
B. MAN
C. SAN
D. LAN
E. WAN

Answer: C

Explanation:
A Storage Area Network (SAN) is primarily used for data archiving and large-scale storage. SANs provide high-speed, block-level storage for enterprise environments.
Why Not A (PAN): Personal Area Networks are for connecting personal devices like phones and smartwatches.
Why Not B (MAN): Metropolitan Area Networks are for city-wide data communication, not storage.
Why Not D (LAN): Local Area Networks are for general connectivity, not dedicated storage. Why Not WAN: Wide Area Networks are for connecting geographically dispersed networks, not storage.
CompTIA A+ Exam Reference: Core 1 (220-1201), Section 2.7, network types and purposes.

NEW QUESTION 49
- (Topic 1)
A company needs to develop a disaster recovery solution based on virtual machines. Which of the following service models is the most suitable?

A. Infrastructure as a Service
B. Security as a Service
C. Platform as a Service
D. Software as a Service

Answer: A

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Infrastructure as a Service (IaaS)providesvirtualized computing resources over the internetsuch as servers, storage, and networking. It allows a business to quickly spin up virtual machines and is ideal fordisaster recoveryand scalable IT infrastructure needs.
? Option B:SecaaS focuses on cloud-delivered security, not infrastructure.
? Option C:PaaS offers development environments, not full virtual infrastructure.
? Option D:SaaS delivers applications over the internet (e.g., email, CRM) — not for disaster recovery.
CompTIA A+ Core 1 Exam Objective Reference:
? Objective 4.1: Compare and contrast cloud computing concepts.
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NEW QUESTION 51
- (Topic 1)
A user reports that the printouts from a laser printer have lines and smudges on them. The printer is also intermittently misfeeding the paper. Which of the following components should a technician replace to address this issue?

A. Fuser
B. Maintenance kit
C. Corona wire
D. Toner cartridge

Answer: B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Amaintenance kitfor a laser printer often includesrollers, fuser, and other partsthat wear out over time. If the printer issmudging and misfeeding, it's a sign thatmultiple components are failing, which a maintenance kit is designed to resolve.
? Option A (Fuser):May cause smudging if it's not heating correctly, but it won??t
resolve paper misfeeds alone.
? Option C (Corona wire):Can cause poor image quality if dirty but doesn??t affect paper feeding.
? Option D (Toner cartridge):Can cause streaks if defective, but not paper feed issues.
CompTIA A+ Core 1 Exam Objective Reference:
? Objective 3.4: Given a scenario, install and configure printers.

NEW QUESTION 52
- (Topic 1)

Which of the following network services is used to assign an IP address to a network host?

A. DHCP
B. DNS
C. LDAP
D. SMTP

Answer: A

Explanation:
DHCP (Dynamic Host Configuration Protocol) is the service used to automatically assign IP addresses to network hosts. It dynamically manages the distribution of IP addresses and configuration details (like subnet mask, gateway, and DNS servers), ensuring no two devices are assigned the same address on the network.
Option B (DNS): Incorrect. DNS translates domain names into IP addresses but does not assign them.
Option C (LDAP): Incorrect. LDAP is a protocol used for accessing and maintaining directory services, such as user information and permissions.
Option D (SMTP): Incorrect. SMTP is used for sending and receiving email, not for IP address assignment.
References:
CompTIA A+ Core 1 Objectives: 2.5 (Network configuration)

NEW QUESTION 57
- (Topic 1)
A technician receives a S.M.A.R.T. error on a PC. When the technician presses the Esc key, the PC continues to turn on without any further issues. Which of the following should the technician do next?

A. Replace the HDD.
B. Update the PC's BIOS.
C. Close the ticket.
D. Change the NIC.

Answer: A

Explanation:
Comprehensive and Detailed Step-by-Step Explanation:
S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology):
S.M.A.R.T. is a monitoring system integrated into modern HDDs and SSDs that detects and reports on various indicators of drive health and reliability.
A S.M.A.R.T. error indicates that the drive is showing signs of impending failure, even if the PC continues to boot and work normally for the time being.
Next Steps:
The appropriate action is to replace the hard drive (HDD) because a S.M.A.R.T. error is an early warning of possible hardware failure. Ignoring the warning could result in data loss if the drive fails completely.
The technician should also back up the user's data immediately to avoid losing critical information.
Incorrect Options:
* B. Update the PC's BIOS: While keeping the BIOS updated is a good practice, it does not address the S.M.A.R.T. error, which is specific to the HDD.
* C. Close the ticket: Closing the ticket without resolving the issue would be improper, as the S.M.A.R.T. error is a hardware problem that needs to be addressed to prevent future data loss or downtime.
* D. Change the NIC: The NIC (Network Interface Card) is unrelated to the storage system and would not resolve a S.M.A.R.T. error.
Key Takeaway:
A S.M.A.R.T. error is a critical indicator of HDD health issues, and the drive should be replaced as soon as possible. Backing up data is also essential.
Reference: CompTIA A+ Core 1 Exam Objectives (220-1201), Domain 5.1 – Troubleshooting hard drives and RAID arrays.

NEW QUESTION 60
- (Topic 1)
A customer reports that a text-only document prints with unrecognizable characters. The print preview correctly displays the document. Which of the following is the most likely cause of the issue?

A. Outdated firmware
B. Incorrect driver
C. Bad toner cartridge
D. Corrupted document file

Answer: B

NEW QUESTION 63
- (Topic 1)
A technician is troubleshooting a PoE phone that will not turn on. When a laptop is plugged directly into the switchport for the phone the technician sees a data link LED and activity. Which of the following tools should the technician use to verify PoE availability to the phone?

A. Network tap
B. Cable tester
C. Loopback plug
D. Toner probe

Answer: B

Explanation:
Reasoning: A cable tester capable of testing Power over Ethernet (PoE) functionality can verify whether the switchport is providing the required power to the phone. This tool measures both the presence of data and the voltage or wattage being provided through the Ethernet cable.
This is the most effective way to confirm that PoE is available on the port.
Why the Other Options Are Incorrect:
* A. Network tap:
A network tap is primarily used to monitor network traffic, not to test for PoE availability. It cannot verify if power is being supplied through the Ethernet cable.
* C. Loopback plug:

A loopback plug is used to test the functionality of a network port by creating a loop for transmitted and received signals. It does not measure or verify PoE availability.
* D. Toner probe:
A toner probe is used for tracing and identifying network cables. It cannot test for PoE functionality.
Practical Example:
A PoE phone might not turn on due to a misconfigured or faulty switchport. Using a cable tester capable of measuring PoE would help the technician determine if the switchport is supplying sufficient power to the phone.
CompTIA A+ Exam Objective Alignment:
Objective 2.1: Identify common networking hardware and tools, including PoE-enabled devices and cable testers.

NEW QUESTION 64
- (Topic 1)
A company wants to save printing costs by restricting network printer use. The company implements a solution that requires employees to authenticate to the printer to release print jobs Which of the following has the company implemented?

A. Access control list
B. Audit logging
C. Badging
D. Print server

Answer: C

Explanation:
Badging is a form of authentication that requires employees to use a badge or ID card to release print jobs. This solution reduces unnecessary printing by ensuring only authorized users print.
Why Not A (Access control list): While ACLs manage permissions, they are not used for physical authentication at printers.
Why Not B (Audit logging): Audit logs track actions but do not restrict printer access. Why Not D (Print server): A print server manages print jobs but doesn??t enforce authentication.
CompTIA A+ Exam Reference: Core 2 (220-1102), Section 2.5, authentication mechanisms.

NEW QUESTION 67
- (Topic 1)
A user is having issues when charging a device with a Lightning cable. The cable is not recognized when it is plugged into the device. This issue is usually resolved by flipping the cable over. This issue does not occur with other devices of the same type. Which of the following would most likely cause the issue?

A. The device needs to be restarted.
B. The battery may be swelling and needs inspection.
C. The cable is failing and needs to be replaced
D. The charging port is dirty or damaged

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When a Lightning cable works only when flipped a certain way or doesn??t function consistently, it is typically due to debris or damage in the charging port. Cleaning the port or inspecting it for wear resolves the issue.
Reference: "CompTIA A+ Complete Practice Tests" by Jeff T. Parker – Chapter 1, Question 7, page 7.

NEW QUESTION 68
SIMULATION - (Topic 2)
A technician is installing a wireless access point and is required to run all cabling and make patch cords if necessary.
INSTRUCTIONS
Part 1
For each cable type, click the (+) to select the appropriate connector and tool. part 2
An access point was moved and no longer has connectivity. Connect the access point, patch panel, and switch by clicking the (+) to select the appropriate cable end for each corresponding location to create a link.
The link will be visible after making the second selection of each pair. Cable ends may be used multiple times, and all placeholders will be filled.
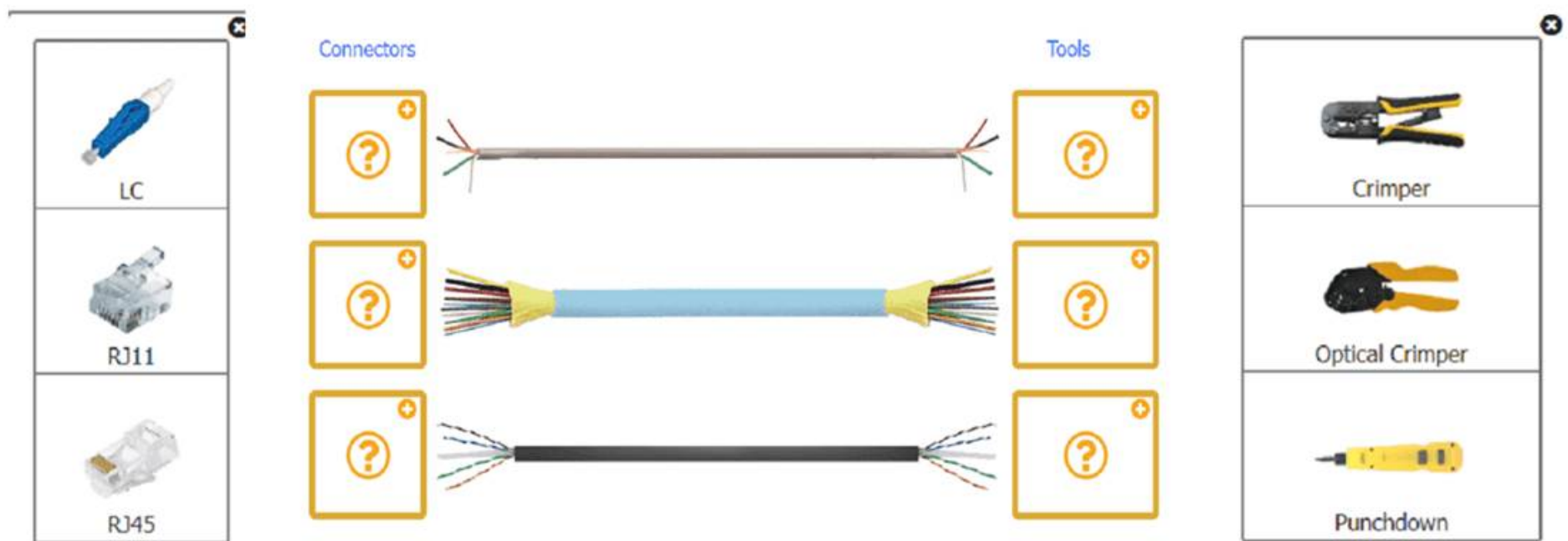
A. Mastered
B. Not Mastered

Answer: A

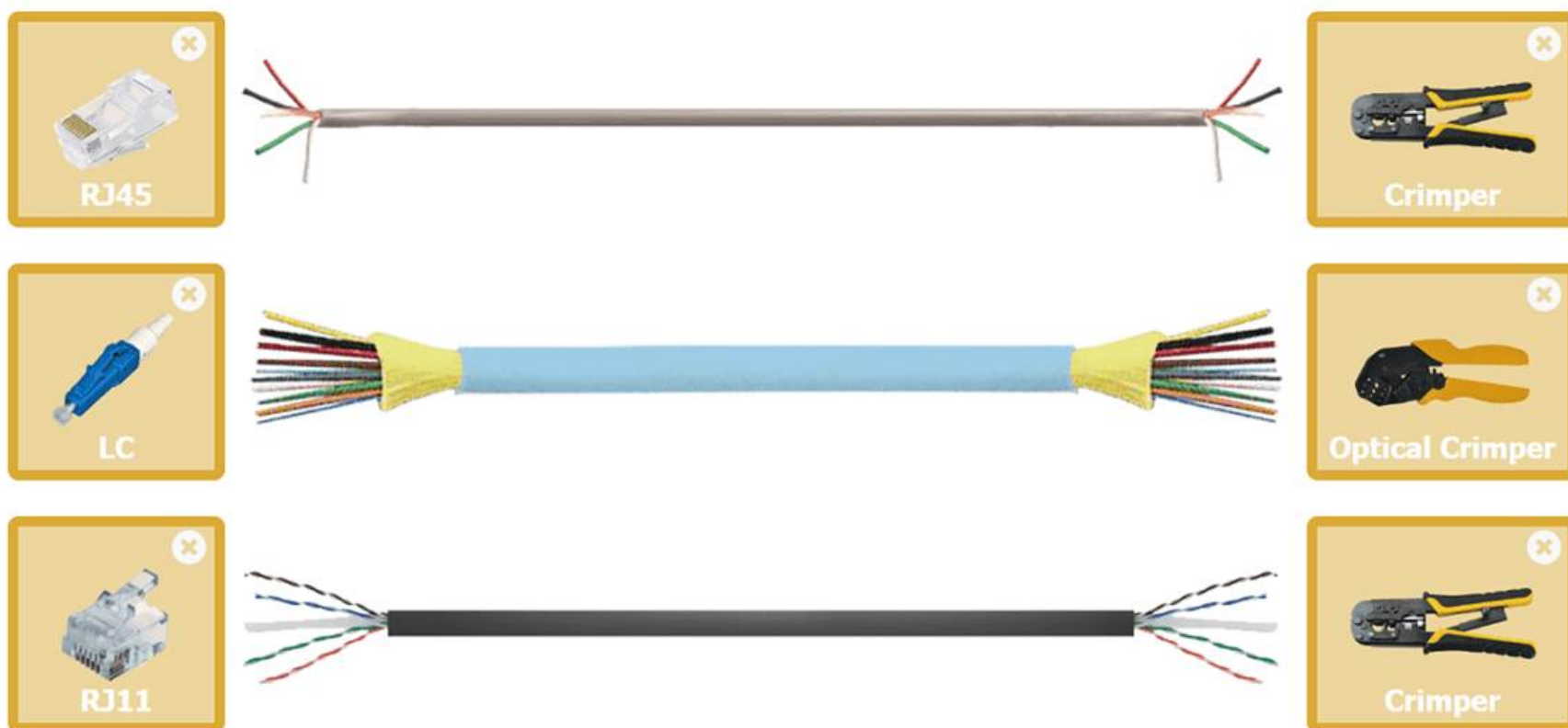**Explanation:**
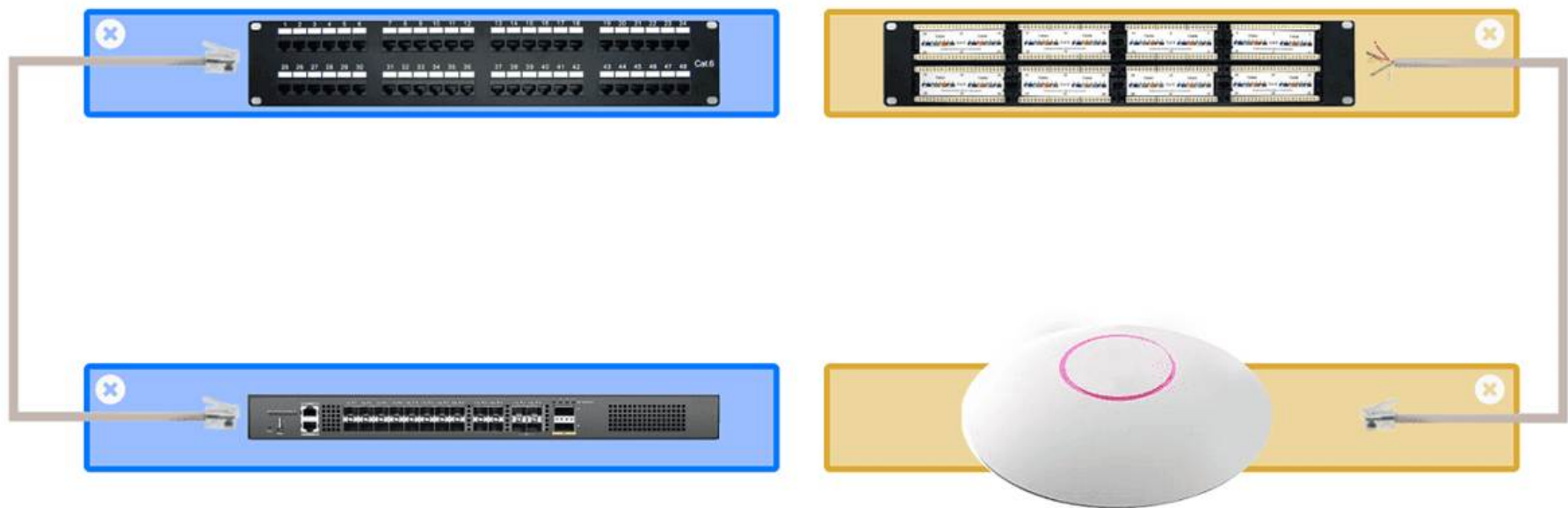Check the exhibit diagram for both parts.

A close-up of several cables
AI-generated content may be incorrect.
Part 2

A group of different colored rectangular objects
AI-generated content may be incorrect.

NEW QUESTION 69
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