



-The original certification question!

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Exam Number:220-1001

Exam Name:CompTIA A+
Certification Exam: Core 1

Version: Demo

Q1

SIMULATION

Laura, a customer, has instructed you to configure her home office wireless access point. She plans to use the wireless network for finances and has requested that the network be setup with the highest encryption possible.

Additionally, Laura knows that her neighbors have wireless networks and wants to ensure that her network is not being interfered with by the other networks.

She requests that the default settings be changed to the following.

Wireless Name: HomeWiFi

Shared Key: CompTIA

Router Password: Secure\$1

Finally, Laura wants to ensure that only her laptop and SmartPhone can connect to the network.

Laptop: IP Address 192.168.1.100

Hardware Address: 00:0A:BF:03:C4:54

SmartPhone: IP Address 192.168.1.101

Hardware Address: 09:2C:D0:22:3F:11

INSTRUCTIONS

Configure Laura's wireless network using the network adapter window. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Library Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

ADMINISTRATOR TOOLS

Wireless Network Settings

Enable Wireless: ☒

Wireless Network Name: (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

Wireless Security Mode

Security Mode:

Passphrase:

Confirmed Passphrase:

Laura's House



Wireless Network Name: **Default**
Security Mode: **Open**
Wireless Channel: **11**

Wireless Network Name: **MyWi**
Security Mode: **WEP**
Wireless Channel: **6**

Wireless Network Name: **PatsWiFi**
Security Mode: **WEP**
Wireless Channel: **11**

Laura's Wireless Configuration

WIRELESS SETUP **NETWORK FILTER** **ADMINISTRATOR TOOLS**

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

Laura's House



Wireless Network Name: **Default**
Security Mode: **Open**
Wireless Channel: **11**

Wireless Network Name: **MyWi**
Security Mode: **WEP**
Wireless Channel: **6**

Wireless Network Name: **PatsWiFi**
Security Mode: **WEP**
Wireless Channel: **11**

Laura's Wireless Configuration

WIRELESS SETUP **NETWORK FILTER** **ADMINISTRATOR TOOLS**

Wireless Network Settings

Enable Wireless: ☐

Wireless Network Name: (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

Wireless Security Mode

Security Mode:

Laura's House

Wireless Network Name: **Default**
Security Mode: **Open**
Wireless Channel: **11**

Wireless Network Name: **MyWi**
Security Mode: **WEP**
Wireless Channel: **6**

Wireless Network Name: **PatsWiFi**
Security Mode: **WEP**
Wireless Channel: **11**

Laura's Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

ADMINISTRATOR TOOLS

Turn MAC Filtering ON: ☐

Allow the following MAC Addresses

Allow the following MAC Addresses

Disallow the following MAC Addresses



☐

☐

☐

☐

A. See the explanation below

 **Wireless Configuration** 

Wireless Setup Network Filter Administrator Tools

WIRELESS NETWORK SETTINGS:

Enable Wireless: ☒

Wireless Network Name: (Also called the SSID)

Wireless Channel:

Disable SSID Broadcast: ☐

802.11g Only Mode: ☐

WIRELESS SECURITY MODE:



Security Mode:

WPA2:

Passphrase:

Confirmed Passphrase:

Save Settings

 **Wireless Configuration** 

Wireless Setup **Network Filter** **Administrator Tools**

☒ **Turn MAC Filtering ON**

Allow the following MAC Addresses ▼

MAC Address

☒ 00:0A:BF:03:C4:54

☒ 09:2C:D0:22:3F:11

☐

☐

Save Settings



The image shows a 'Wireless Configuration' window with a yellow header and a close button. It has three tabs: 'Wireless Setup', 'Network Filter', and 'Administrator Tools'. The 'Administrator Tools' tab is active, showing a section titled 'ADMIN PASSWORD'. Below this, a message says 'Please enter the same password into both boxes for confirmation.' There are two input fields: 'Password:' and 'Verify Password:', both containing the text 'Secure\$1'. A 'Save Settings' button is located at the bottom right.

Wireless Configuration

Wireless Setup Network Filter Administrator Tools

ADMIN PASSWORD

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

Save Settings

Answer: A

Q2

DRAG DROP

Drag each mobile technology to the description of its use. Some answers will not be used.

Select and Place:

Description	Wireless technology
Devices use haptic confirmation for sharing data wirelessly.	NFC
Devices are paired using a code for sharing data wirelessly.	Hotspot
Devices are placed in close proximity within line of sight for sharing data wirelessly.	IR
Devices are connected via a wire for sharing data or connectivity.	Tethering
	Bluetooth
	Cellular
	Lightning

Answer:

Description	Wireless technology
IR	
Bluetooth	Hotspot
NFC	
Tethering	
	Cellular
	Lightning

Q3

DRAG DROP

A customer, Ann, has requested two custom PCs, one to be used for gaming and the other to be used as a virtualization workstation for her business.

The gaming PC should support the latest games and gaming peripherals. The virtualization workstation should be able to host several production virtual machines as part of Ann's home business.

INSTRUCTIONS

Use the tabs at the top to switch between the PCs.

Objects should be placed on the appropriate slot/display areas and can only be used once.

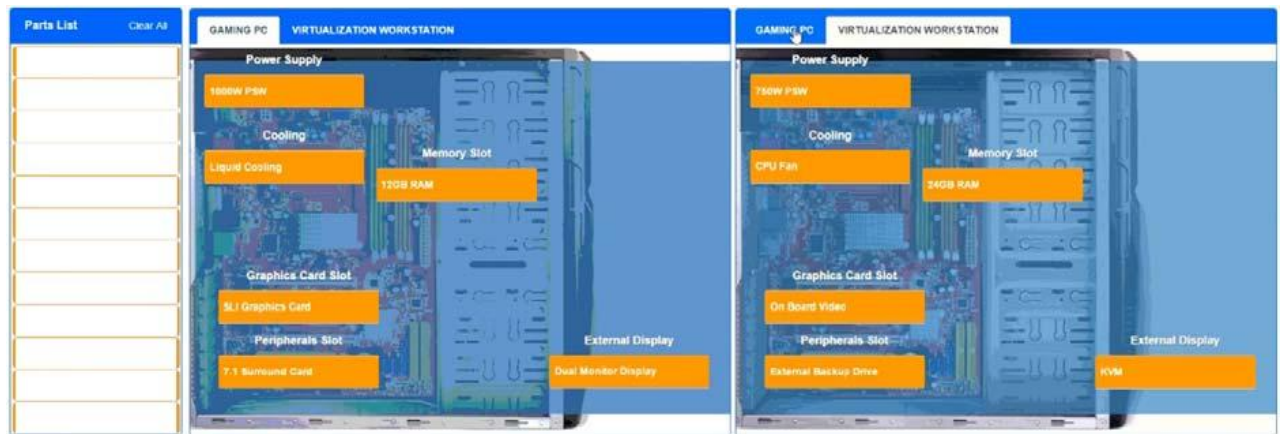
All slot/display areas should be filled.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Select and Place:



Answer:



Q4

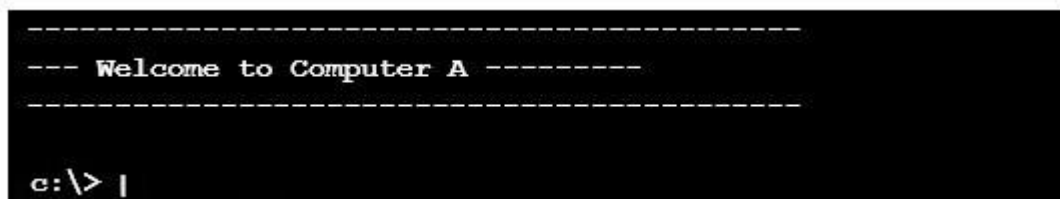
SIMULATION

The network administrator has changed the IP address of ComputerA from 192.168.1.20 to 10.10.10.20 and now Jane, a user, is unable to connect to file shares on ComputerA from ComputerB using the computer name.

INSTRUCTIONS

Using the available tools, resolve the connectivity issues.

After troubleshooting the issue, verify a successful connection. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



```
Reply from 10.10.10.10.30: bytes=32 time=13ms TTL=52
Reply from 10.10.10.10.30: bytes=32 time=13ms TTL=52

Ping statistics for 10.10.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 13ms, Maximum = 13ms, Average = 13ms

c:\> ?
    % Invalid input detected, query help for valid commands.
c:\> help

    ipconfig
    nslookup
    ping
    tracert

    help

c:\> nslookup
    % Invalid input detected, query help for valid commands.
c:\> nslookup
    % Invalid input detected, query help for valid commands.
c:\> help

    ipconfig
    nslookup
    ping
    tracert
    help

c:\>
```

```
-----
--- Welcome to Computer B -----
-----

c:\>
```

```

-----
c:\> ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix . . . . . : local.net
    IPv4 Address . . . . . : 10.10.10.30
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.10.10.1

c:\> ping 10.10.10.20

Pinging 10.10.10.20 with 32 bytes of data:
Reply from 10.10.10.20: bytes=32 time=13ms TTL=52
Reply from 10.10.10.20: bytes=32 time=13ms TTL=52
Reply from 10.10.10.20: bytes=32 time=13ms TTL=52
Reply from 10.10.10.20: bytes=32 time=13ms TTL=52

Ping statistics for 10.10.10.20:
    Packets: Sent = 4, Received = 4, Loat = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 13ms, Maximum = 13ms, Average = 13ms

c:\> nslookup
    % Invalid input detected, query help for valid commands.
c:\>
computerB

```

A. See the explanation below

We need to flush the DNS to have the new IP address assigned to the same computer name.
Use the ipconfig/flushdns command.

Answer: A

Q5

A technician is troubleshooting what appears to be a RAM issue on a PC. Which of the following symptoms would indicate if this is a RAM issue?

- A. POST code beeps
- B. Distended capacitors

- C. Continuous reboots
- D. Wrong BIOS time

Answer: C

Q6

A user accidentally spills liquid on a laptop. The user wants the device to be fixed and would like to know how much it will cost.

Which of the following steps should the technician take NEXT to verify if the device is repairable before committing to a price? (Choose two.)

- A. Remove the case and organize the parts.
- B. Document the screw locations.
- C. Search the Internet for repair tutorials.
- D. Consult colleagues for advice.
- E. Place the device in rice for a few days.

Answer: AB

Q7

Which of the following peripherals would a company use to take inventory quickly and update price tags for products? (Choose two.)

- A. Barcode scanner
- B. Label printer
- C. Magnetic reader
- D. KVM switch
- E. NFC device
- F. Flatbed scanner

Answer: AC

Q8

A user wants to print a large job on both the front and back sides of the paper.

Which of the following settings should the technician advise the user to change in the printer settings?

- A. Collate

- B. Orientation
- C. Duplex
- D. Transparency

Answer: C

Q9

A user is unable to access websites and has reported connectivity issues with pop-ups on the screen. A technician removes malware, and then is able to ping the router and access the websites.

Which of the following NEXT steps should the technician perform in troubleshooting this issue? (Choose two.)

- A. Document findings, actions, and outcomes.
- B. Reboot the device to verify the fix.
- C. Reconnect the device to the network.
- D. Verify the settings in IPConfig.
- E. Research the problem based on symptoms.
- F. Run a virus scan.

Answer: AF

Q10

A user is no longer able to browse the Internet after returning from vacation. The user is able to log in and navigate to the local intranet, but not to any outside sites. A technician pings a well-known website by name but gets no reply. The technician then pings its IP address and gets a reply.

Which of the following commands will MOST likely resolve the issue?

- A. `ipconfig /all`
- B. `ipconfig /flushdns`
- C. `ipconfig /release`
- D. `ipconfig /setclassid`

Answer: B

Q11

A technician is determining the specifications for a desktop computer that will be used at trade shows all over the world. The computer will have the maximum amount of RAM. The CPU, GPU, and storage will be typical of a business workstation.

Which of the following system parameters is the MOST important for the technician to consider when choosing a power supply?

- A. Input voltage
- B. Efficiency rating
- C. 12V rail amperage
- D. Number of SATA connectors

Answer: A

Q12

Ann, an accountant, reports that after turning on her new laptop, she received a message stating her IP address is already in use on the system. She tried going back to her old desktop, which she now only uses for email, but received the same message. The technician checks the account and sees a comment that Ann requires a special network setup to connect to the banking software. Which of the following should the technician do to resolve the issue?

- A. Remove the static IP configuration from the desktop.
- B. Set the laptop configuration to DHCP to prevent conflicts.
- C. Replace the network card in the laptop, as it may be defective.
- D. Bridge the LAN connection between the laptop and the desktop.

Answer: B

Q13

A customer wants to purchase a new home computer. The machine will mainly be used for Internet browsing and streaming video, except on weekends when the customer's son will use it to play games with friends.

Which of the following should the technician focus on to meet these requirements? (Choose two.)

- A. 80mm case fans
- B. Four-core processor
- C. RAID 5 array
- D. 16GB DDR2 memory
- E. Dual monitors
- F. Encrypted hard drive

Answer: BD

Q14

Which of the following cable types should be used to connect a cable modem to a SOHO router?

- A. Thunderbolt
- B. Coaxial
- C. USB
- D. Ethernet

Answer: D

Q15

Which of the following channels would commonly be used on an 802.11 wireless network?

- A. 6
- B. 17
- C. 802
- D. 8080

Answer: A

Q16

A technician is troubleshooting a Windows CAD workstation that is running slow. The computer uses RAID 10 and has dual GPU cards. The user states that the same application runs faster on an identical workstation.

Which of the following should the technician perform FIRST to troubleshoot the problem?

- A. Replace the write cache battery.
- B. Check the event log for any cache issues.
- C. Clear the RAID configuration file and restart the PC.
- D. Replace the RAID controller write cache module.

Answer: B

Q17

A business owner wants to provide security to laptop users with the ability to charge their devices, access corporate LAN resources, and allow for a variety of other removable hardware.

Which of the following devices would BEST meet the owner's needs?

- A. Docking station
- B. Port replicator
- C. Thunderbolt
- D. USB hub

Answer: A

Q18

A technician has noticed that when at company headquarters the laptop connection to the Internet is more responsive than when using the company-provided phone as a hotspot. The technician updated the drivers on the WiFi NIC without resolution and then verified the configuration on the WiFi was correct.

Which of the following configurations could cause the decreased performance?

- A. The connection is throttled.
- B. There is a low RFID signal.
- C. SSID is not found.
- D. It is out of range.

Answer: A

Q19

An associate is seeking advice on which device to purchase for a friend who is a business owner. The friend needs the ability to chart activity while keeping in contact with the home office.

Which of the following would be the BEST recommendation?

- A. Smart watch
- B. Fitness monitor
- C. Global positioning sensor
- D. Portable hotspot

Answer: A

Q20

A technician is replacing a broken screen on a new company laptop but does not have repair information from the vendor.

Which of the following is the BEST way to proceed?

- A. Document and label the cable and screw locations.
- B. Replace the screen with a non-OEM.
- C. Update the firmware on the device before repairing it.
- D. Wait for the vendor to provide more information.

Answer: A

Q21

Ann, a user, needs to attend several day-long conferences and wants to ensure her mobile device will have enough power for these events. She is concerned about wall outlet availability at the conferences and needs to continuously use her device for important updates.

Which of the following should a technician recommend to BEST accommodate Ann's needs?

- A. Wireless charging pad
- B. Built-in battery case
- C. Extra charging cords
- D. Airplane mode

Answer: A

Q22

Which of the following charging and data ports has a non-directional connector?

- A. Micro-USB
- B. Mini-USB
- C. USB-A
- D. USB-C

Answer: D

Q23

A user brings in a smartphone for repair. The device is unable to send/receive calls or connect to WiFi. All applications on the device are working unless they require connectivity.

Which of the following is MOST likely causing the problem?

- A. Airplane mode
- B. Tethering
- C. Disabled hotspot
- D. VPN

Answer: A

Q24

Which of the following Ethernet cables would BEST support an application that requires a 600Mbps throughput at the lowest price point?

- A. Cat 3
- B. Cat 5
- C. Cat 5e
- D. Cat 6

Answer: C

Q25

A client has three locations within city limits that need to be networked. Vendor network requirements for all three locations are a minimum of 1GB.

Which of the following are the types of networks that will MOST likely be used for internal office and office-to-office networking? (Choose two.)

- A. MAN
- B. LAN
- C. WAN
- D. PAN
- E. SAN
- F. WLAN

Answer: AB

Q26

Which of the following terminates a coaxial cable?

- A. DB9
- B. RJ45
- C. RG-59
- D. RS-232

Answer: C

Q27

A customer asks a technician to help set up a specialized computing system for video editing. Which of the following should the technician install on the workstation to BEST meet the customer's specifications? (Choose two.)

- A. SSD
- B. Dual monitors
- C. Gigabit NIC
- D. Hypervisor
- E. Docking station
- F. NAS

Answer: AB

Q28

An end user wants to have a second monitor installed on a laptop. Which of the following would allow a technician to configure the laptop to show both screens once the cable is connected?

- A. Plug an external monitor into the USB port.
- B. Use the Fn and function key combination
- C. Adjust the monitor display settings.
- D. Enable DisplayPort.

Answer: C

Q29

A customer's laptop display has suddenly become very dim. The image of the display can only be seen with a bright, external light, as adjusting the brightness/contrast controls does not cause much change.

Which of the following components MOST likely needs to be replaced?

- A. LCD panel
- B. Inverter
- C. Video card
- D. Digitizer

Answer: B

Q30

A technician is troubleshooting a laptop/projector combination that is displaying artifacts on the screen. When a different laptop is connected to the projector, the image appears to be correct but is very dim.

Which of the following steps should the technician take to address these issues? (Choose two.)

- A. Update the video drivers on the laptop.
- B. Increase the projector contrast.
- C. Replace the original laptop.
- D. Change the aspect ratio on the projector.
- E. Replace the bulb in the projector.
- F. Modify the laptop's display resolution.

Answer: BD

Q31

Multiple users report that the network printer, which is connected through the print server, is not printing.

Which of the following should a technician do FIRST to remedy this situation?

- A. Replace the USB cable.
- B. Reinstall the drivers on users' PCs.
- C. Have users restart their PCs.
- D. Clear the print queue.

Answer: D

Q32

A user reports that a laptop is not connecting to the corporate wireless network. A technician confirms with a smartphone that the corporate wireless network is available and can be accessed. The technician observes that the Ethernet connection to the corporate network is working. The technician disconnects the Ethernet cable.

Which of the following should the technician do NEXT to troubleshoot this problem?

- A. Confirm that the laptop wireless card is turned on.
- B. Confirm that the laptop is in range for the access point.
- C. Confirm that the correct wireless network is selected.
- D. Confirm the user's network login ID and password.

Answer: A

Q33

Several company users are frequently forgetting passwords for their mobile devices and applications.

Which of the following should the systems administrator do to reduce the number of help desk tickets submitted?

- A. Implement single sign-on.
- B. Enable multifactor authentication.
- C. Configure biometric authentication.
- D. Remove complex password requirements.

Answer: A

Q34

Which of the following cloud computing concepts allows scalable services to be provided to the client?

- A. On-demand
- B. Metered
- C. Rapid elasticity
- D. Resource pooling

Answer: C

Q35

During an inspection, it was found that data racks were not properly grounded. To pass the inspection and address a growing concern to protect data cabling and equipment, a technician must make sure all racks are properly grounded.

Which of the following tools should the technician use to verify this has been completed?

- A. Multimeter
- B. Cable tester
- C. Tone generator
- D. Voltmeter

Answer: A

Q36

A technician was called to check an unexpected clicking noise on a desktop that has become more frequent every time a video editing application is loaded. The system fans have been replaced, but the clicking noise remains. Diagnostics have been run on the video card.

Which of the following should the technician do FIRST?

- A. Replace the hard drive.
- B. Replace the video card.
- C. Do a System Restore.
- D. Perform a full data backup.
- E. Scan the system for viruses.

Answer: D

Q37

Joe, a user, has purchased a new mobile device that uses a different OS than his previous one. Joe wants to copy his contacts and appointments from his corporate account without entering them manually.

Which of the following would be the BEST way for a technician to assist Joe?

- A. Log into the same email provider on the new device, and restore the contacts and dates.
- B. Create a Bluetooth connection between Joe's devices, and copy his contacts and calendar.
- C. Back up the old mobile device to a PC, and import the contacts and schedule from the PC.
- D. Use NFC to transfer all compatible data from one device to the other.

Answer: A