

CompTIA A+ Certification Exam: Core 1

1. 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 situation, please click the Reset All button.

The screenshot shows a network configuration window titled "Laura's House" with a house icon and a question mark. Below the title, there are three wireless network profiles, each with a house icon and a signal strength indicator. The profiles are:

Profile Name	Wireless Network Name	Security Mode	Wireless Channel
Default	Default	Open	11
MyWi	MyWi	WEP	6
PatsWiFi	PatsWiFi	WEP	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:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Disable SSID Broadcast:

802.11g Only Mode:

Wireless Security Mode

Security Mode:

- Disable Wireless Security (not recommended)
- Enable WEP Wireless Security (basic)
- Enable WPA Wireless Security (enhanced)
- Enable WPA2 Wireless Security (enhanced)

Laura's Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

ADMINISTRATOR TOOLS

Turn MAC Filtering ON:

- Allow the following MAC Addresses
- Disallow the following MAC Addresses

-
-
-
-

Laura's Wireless Configuration

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

Please enter the same password into both boxes for confirmation.

Password:

Verify Password:

A. See Explanation section for answer.

Answer(s): A

2. DRAG DROP (Drag and Drop is not supported)

An office manager reports that a printer is experiencing performance issues. Printouts are smudging when they are handled, and, recently, whenever the manager tries to print oversized documents, the paper jams before anything is printed on it.

A. See Explanation section for answer.

Answer(s): A

3. A small ISP has hired a new technician Joe, the new technician, is being trained to configure customers* home networks The trailing instructor gives me technician a starter kit with cables, cable ends, and other network equipment and asks mm to build a working network.

The computer should be connected to have internet connectivity and the phone should be connected to have a dial tone.

INSTRUCTIONS

Use the appropriate cables. cable ends, tools and equipment to configure the network ana connect an components accordingly

There are 3 steps and the simulation starts on step 1.

The screenshot shows a simulation interface for configuring a SOHO network. It includes a 'SOHO Starter Kit' section with 'Connectors' (RJ11, RJ45, F Connector) and 'Tools' (crimping tool, punch-down tool, screwdriver). Below are three cable types: a multi-colored Ethernet cable, a brown coaxial cable, and a black Ethernet cable. The bottom section shows a network diagram with a 'Wall ISP Service Outlet', a 'SOHO Router' (with Phone Service, LAN 1-4, and WAN ports), a 'POTS' phone, a 'Cable Modem', and a 'Home PC'. Yellow question marks are placed over the connection points on the router, phone, modem, and PC, indicating where the user needs to connect the cables.

A. See Explanation section for answer.

Answer(s): A

4. A technician is tasked with installing additional RAM in a desktop computer. Which of the following types of RAM is MOST likely to be used?

A. SODIMM

B. DDR3

C. ECC

D. VRAM

Answer(s): B

5. Vertical streaks are appearing on the output of a laser printer. Which of the following items is the MOST likely cause?

A. Roller

B. Drum

C. Transfer belt

D. Ribbon

Answer(s): B

6. A user is trying to play a DVD on a projector. The user can hear the audio; however, the projector is showing an error message that states:

-HDMI Blocked due to Copy Protection

Which of the following is the MOST likely cause of the error?

A. The HDMI cannot carry the signal from the DVD to the projector.

B. The user needs to switch from HDMI to a cable standard such as DisplayPort.

C. The projector does not support the necessary HDCP protocol.

D. The user needs to enable copy-protected sources in the projector's settings.

Answer(s): C

7. While implementing a non-carrier-grade wireless backhaul, a technician notices the current channel selection is extremely polluted with various RF signals. Upon performing a spectral analysis, the technician discovers a channel containing almost no RF pollution. Unfortunately, the technician is unable to select that channel. Which of the following is the MOST likely reason for this issue?

A. The channel is reserved for licensed band use.

B. The channel selection is defective; contact the manufacturer.

C. The channel must be unlocked by the vendor.

D. The device requires a firmware update to unlock the channel.

Answer(s): A

8. A user submitted a support ticket that states all of the printouts from a laser printer appear to have double images imposed on them. A review of past printer support tickets shows that maintenance kit has not been installed in more than a year. Which of the following printer consumables is MOST likely causing the issue?

A. Separation pad

B. Transfer roller

C. Ink cartridge

D. Fuser

Answer(s): B

9. A technician is configuring a workstation to be used as a VM host. After installing the necessary software, the technician is unable to create any VMs. Which of the following actions should be performed?

A. Disable the BIOS password.

B. Enable TPM.

C. Enable multithreading.

D. Enable Fast Startup.

Answer(s): C

10. A user's computer is not receiving a network connection. The technician confirms that the connection seems to be down and looks for the user's port on the patch panel. The port and patch panel are not labeled. Which of the following network tools should the technician use to identify the port?

A. Network tap

B. Punchdown tool

C. Toner probe

D. Crimper

Answer(s): C

11. A user, who is attempting to give a presentation via a projector in a conference room, reports the projector has video but no audio. Which of the following will MOST likely resolve the issue?

A. Changing the input on the projector to VGA

B. Changing the output on the PC to DVI

C. Modifying the projector's refresh rate

D. Utilizing an HDMI connection

Answer(s): D

12. A customer reports that a computer is never able to reach more than a 100Mbps transfer data rate, even when using a Gigabit LAN card. While troubleshooting, the technician notices the network cable needs to be replaced. Which of the following cable categories is limiting the transfer speed?

A. Cat 5

B. Cat 5e

C. Cat 6

D. Cat 6a

Answer(s): A

13. While using a popular videoconferencing program, the user selects a webcam, but the software is unable to open the webcam. The webcam was working the previous day. Which of the following should be done to address this issue?

A. Close other video software and retry.

B. Adjust the conference software to a compatible resolution.

C. Switch the video from the webcam to "conference" mode.

D. Reseat or replace the webcam.

Answer(s): A

14. A user failed to gain access to a building's entrance after security measures at the entrance were upgraded last week. The company implemented the 13.56MHz frequency short band, and users can now utilize their mobile devices to authenticate. Which of the following has to be enabled for the mobile device to authenticate?

A. Bluetooth

B. Biometrics

C. NFC

D. PIN

Answer(s): C

15. Which of the following standards supports MIMO technology?

A. 802.11a

B. 802.11b

C. 802.11g

D. 802.11n

Answer(s): D

16. A technician powers on a PC and its monitor and sees the following error message:
No input signal detected
The display lights on the computer are on. Which of the following is a possible solution?

A. Changing the BIOS settings

B. Changing the connector setting on the monitor

C. Checking the power plug on the monitor

D. Checking the power plug on the PC

Answer(s): B

17. Which of the following components enables the input on a mobile device's touch screen?

A. OLED

B. Digitizer

C. Inverter

D. CMOS sensor

Answer(s): B

18. A technician unboxed a new computer, plugged it in to a UPS. and connected the requested peripherals. The computer lights and fans turn on, but the technician hears three loud, consecutive beeps during boot. Which of the following actions will remediate the issue?

A. Replacing the power supply

B. Replacing the UPS

C. Changing the CMOS battery

D. Reseating the RAM

Answer(s): D

19. An IT manager discovered that hundreds of pages of printed materials are being recycled each day because the materials are left on the printer tray instead of being picked up by users. Which of the following would BEST prevent this waste?

A. Send friendly reminders to not print unnecessarily.

B. Enable duplex printing to reduce paper utilization.

C. Bill each department for the excess material cost.

D. Require a code or badge before releasing a print job.

Answer(s): D

20. An online retailer wants to save money and is considering migrating to the public cloud so peak is over. Which of the following BEST describes this aspect of cloud computing?

A. Rapid elasticity

B. Metered utilization

C. Shared resources

D. High availability

Answer(s): A
