

POTS and Dial-up

Total points 2

1. Another term for POTS, or the Plain Old Telephone System, is _____.

1 / 1 point

- ☐ Public Available Telephone Network.
- ☐ Public Switched Telephone Exchange.
- ☒ Public Switched Telephone Network.
- ☐ Public Available Telephone Exchange.
- ☐ Phone Switched Transport Network.

✓ Correct

Nice work! POTS and PSTN refer to the same thing.

2. A baud rate is a measurement of the number of _____.

1 / 1 point

- ☒ bits that can be sent across a telephone line every second.
- ☐ bytes that can be sent across a telephone line every second.
- ☐ packets that can be sent across a telephone line every second.
- ☐ data segments that can be sent across a telephone line every second.

✓ Correct

That's right! A baud rate is equivalent to bits per second.

Broadband Internet

Total points 3

1. T1 is short for _____.

1 / 1 point

- ☐ Transportation System 1.
- ☐ Transmission 1.
- ☒ Transmission System 1.
- ☐ Transportation 1.

✓ Correct

Correct! T1 is short for Transmission System 1.

2. How fast is a T1 line?

1 / 1 point

- ☐ 44.763 Mb/sec
- ☒ 1.544 Mb/sec
- ☐ 1 Mb/sec
- ☐ 128 Mb/sec



Correct

You nailed it! A T1 communicates at speeds of 1.544 Mb/sec.

3. Select all statements that are true of cable internet connections.

1 / 1 point

☒ They're shared bandwidth connections.



Correct

Great work! A cable connection is a shared bandwidth connection.

☐ They're dial-up connections.

☐ They're wireless connections.

☒ They're broadband connections.



Correct

Nice job! A cable connection is a broadband connection.

WANs

Total points 3

1. WAN stands for _____.

1 / 1 point

- ☒ Wide Area Network.
- ☐ Wireless Local Area Network.
- ☐ Wired Area Network.
- ☐ Wireless Area Network.



Correct

Wohoo! WAN stands for Wide Area Network.

2. In a WAN, the area between a demarcation point and the ISP's core network is known as _____.

1 / 1 point

- ☐ a local link
- ☐ a Local Area Network
- ☒ a local loop
- ☐ an access point

✓ **Correct**

Correct! A local loop is the name for the area between a demarcation point and an ISP's network.

3. A point-to-point VPN is also known as a _____.

1 / 1 point

- ☒ site-to-site VPN
- ☐ one-to-many VPN
- ☐ port forwarding VPN
- ☐ data link VPN

✓ **Correct**

You got it! A point-to-point VPN can also be referred to as a site-to-site VPN.

Wireless Networking

Total points 3

1. How many address fields does an 802.11 header have?

1 / 1 point

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4

✓ **Correct**

Awesome! There are four different address fields in an 802.11 header.

2. A wireless channel is _____.

1 / 1 point

- ☐ a point-to-point wireless connection.
- ☐ a collision domain.
- ☐ an example of an ad-hoc network.
- ☒ a portion of a frequency band.

✓ **Correct**

Good work! A channel represents a portion of a frequency band.

3. Choose all of the frequencies that wireless networks typically operate on.

1 / 1 point

- ☐ 88Mhz
- ☐ 1.544Ghz
- ☒ 2.4Ghz

✓ **Correct**

Right on! Many wireless networks operate on the 2.4Ghz frequency band.

- ☒ 5Ghz

✓ **Correct**

Correct! Many wireless networks operate on the 5Ghz frequency band.

Connecting to the Internet

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1. Question

1 / 1 point

A modulator/demodulator is better known as a ____.

- ☐ telephone
- ☐ radio
- ☒ modem
- ☐ computer

↗ Expand

✓ **Correct**

Correct! Modem stands for modulator/demodulator.

2. Question

1 / 1 point

The more accurate name for a cable modem is a ____.

- ☐ POTS
- ☐ DSLAM
- ☒ CMTS
- ☐ ONT

↗ Expand

✓ **Correct**

Yep! A CMTS is the proper name for a cable modem.

3. Question

1 / 1 point

ONT stands for ____.

- ☐ Optical Network Telephone
- ☐ Optional Network Traffic
- ☐ Optical Network Tether
- ☒ Optical Network Terminator

 Expand

 **Correct**

Correct! An ONT sits between a fiber network and a more traditional copper one.

4. Question

1 / 1 point

A traditional wireless network involving access points that all have wired connections is known as a(n) ____.

- ☐ LAN
- ☒ WLAN
- ☐ WAN
- ☐ ad-hoc network

 Expand

 **Correct**

Nice work! A WLAN is the term for a traditional wireless network.

5. Question

1 / 1 point

WPA2 uses a key that's ____ bits long.

- ☐ 64
- ☐ 128
- ☒ 256
- ☐ 512

 Expand

 **Correct**

Wohoo! 256-bit keys are pretty difficult to break.

6. Question

1 / 1 point

Modems communicate data by using which method?

- ☐ Electric charges
- ☐ Light pulses
- ☐ Radio frequency
- ☒ Audible wavelengths

 Expand

 **Correct**

Well done! Phone lines were developed to transmit sound. Modems transfer data through audible wavelengths.

7. Question

1 / 1 point

Which wireless security standards uses a 128-bit key?

- ☒ WiFi Protected Access (WPA)
- ☐ Wired Equivalent Privacy (WEP)
- ☐ WiFi Protected Access (WPA2)
- ☐ Ad-hoc

 Expand

 **Correct**

Woohoo! WPA replaced WEP. It uses a 128-bit key making it harder to crack.

8. Question

1 / 1 point

An Internet connection problem for customers is found to be outside a carrier's regional office. As a result, which area needs troubleshooting?

- ☐ Demarcation point
- ☐ Core network
- ☐ Wide Area Network (WAN)
- ☒ Local loop

 Expand

 **Correct**

Awesome! A local loop is the portion of a network between a customer's demarcation point and the carrier or ISP facility.

9. Question

1 / 1 point

In which wireless configuration type do nodes communicate directly with each other, rather than with an access point?

- ☐ 2.4Ghz
- ☐ 802.11b
- ☒ Ad-hoc
- ☐ Mesh network

 Expand

 **Correct**

You got it! In an ad-hoc network, all nodes communicate and transmit directly to each other.

10. Question

1 / 1 point

Similar to Wireless networks, cellular networks use band configuration to avoid what problem?

- ☐ Security
- ☒ Overlap
- ☐ Speed
- ☐ Distance

 Expand

 **Correct**

Great work! Cell towers are configured to use bands that don't overlap, just like WiFi uses different channels.

11. Question

1 / 1 point

Which form of Digital Subscriber Line (DSL) features differing upload and download speeds?

- ☐ SDSL
- ☐ DSLAM
- ☒ ADSL
- ☐ HDSL

 Expand

 **Correct**

Nice job! Asymmetric Digital Subscriber Line (ADSL) connections feature different speeds for outbound and incoming data.

12. Question

1 / 1 point

Which connection technology uses what is known as a CMTS?

- ☐ Fiber optic
- ☐ Digital Subscriber Line
- ☒ Cable Internet
- ☐ Dial-up

 Expand

 **Correct**

You nailed it! The Cable Modem Termination System (CMTS) connects lots of different cable connections to an ISPs core network.

13. Question

1 / 1 point

What does a wireless LAN (WLAN) act as to a wired network?

- ☐ Gateway
- ☒ Bridge
- ☐ Switch
- ☐ Router

 Expand

 **Correct**

Great work! As a wireless network connects and gives access to a wired network, acting as a bridge between the two.

14. Question

1 / 1 point

An IT suspects that an unauthorized device is connected to a wireless network. This is a result of passkey sharing on a device brought from home. What is put in place to stop such activity?

- ☒ Media Access Control (MAC) Filtering
- ☐ Channel overlap
- ☐ Collision domain
- ☐ WiFi Protected Access 2 (WPA2)

 Expand

 **Correct**

Awesome! MAC filtering allows or disallows a device to connect to a network, based on a hardware address.


15. Question

0 / 1 point

Television broadcasts were originally delivered by using which technology?

- ☐ Ethernet
- ☒ Broadband
- ☐ Wireless
- ☐ Coaxial cable

 Expand

 **Incorrect**

Not quite. Please review the videos in the "Broadband Connections" module for a refresher.

16. Question

1 / 1 point


What two benefits are a result of configuring a wireless mesh network? Check all that apply.

☒ Range

 **Correct**

Awesome! Range increases when access points are configured in a mesh where all points are connected to each other.

☒ Performance

 **Correct**

Nice job! Performance increases when access points are configured in a mesh where all points are connected to each other.

☐ WiFi protected setup

☐ Ad-hoc configuration

 Expand

 **Correct**

Great, you got all the right answers.