Lab 2-3 Consider This: Your Turn

Notes for Wireless Communications Paper

Introduction:

* Popular wireless communications technologies include Wi-Fi, Bluetooth, and NFC.
* Some computers and devices communicate via wires, and others communicate wirelessly.
* Many users opt for wireless communications because it is more convenient than installing wires and cables.

Bluetooth (source: article called "How Bluetooth Communications Work.", written by Latisha Adams, published in the August 31, 2017, issue of an online periodical called *Online Technology*. Viewed on September 21, 2017):

* To communicate with each other, Bluetooth devices often must be within about 33 feet but can be extended to about 325 feet with additional equipment.
* Devices that share a Bluetooth connection are said to be paired.
* A Bluetooth device contains a small chip that allows it to communicate with other Bluetooth devices.
* When connecting two devices using Bluetooth, the originating device sends a code to the connecting device. The codes must match to establish the connection.

NFC (source: printed book by Nicholas Michael Nitz called *Near Field Communications*, published in Seattle in 2017 by Pacific Press, specific pages used were 114-135):

* An NFC tag is a chip that can store small amounts of data. NFC tags are in a variety of objects, such as posters, ski lift tickets, business cards, stickers, and wristbands.
* For successful communications, the NFC devices or objects touch or are placed within an inch or two of each other. For example, two NFC-enabled phones touched together can transfer contacts, or an NFC-enabled phone can touch a parking meter to pay for parking.
* Examples of NFC-enabled devices include smartphones, digital cameras, television, and terminals.
* Credit cards, tickets, and NFC tags are examples of objects that also use NFC technology.

Wi-Fi (source: website titled *Wi-Fi Communications and Technologies*, published by Course Technology, written by Milton Leon Brewer and Lynette Galens in August 2017. Viewed on September 25, 2017):

* One popular use of Wi-Fi is in hot spots that offer mobile users the ability to connect to the Internet with their Wi-Fi-enabled wireless computers and devices.
* Wi-Fi, which stands for wireless fidelity, uses radio signals to provide high-speed Internet and network connections to computers and devices capable of communicating via Wi-Fi.
* In open or outdoor areas free from interference, the computers or devices should be within 300 feet of a wireless access point or hot spot. In closed areas, the wireless network range is about 100 feet.
* Many homes and small businesses also use Wi-Fi to network computers and devices wirelessly.
* To obtain communications at maximum distances, users may need to install extra hardware to extend or strengthen a wireless signal.

Conclusion

* Three popular wireless communications technologies are Wi-Fi, Bluetooth, and NFC.
* Wireless communications use air or space to send communications signals.
* Many home and business users opt for wireless communications today.