

- 679. **network** a collection of computers and other equipment for sharing data and resources
- 680. **What are benefits?** Allows sharing of Internet, sharing a printer and other devices.
- 681. **wireless networking** is using electronic waves rather than wires
- 682. **node** a device hooked up to a network.
- 683. **WiFi** wireless 802.11 standard radio waves **range** 150-1000 ft~3KM outside WiFi-N 270 Mbps
- 684. **hotspot**: area within range of a WiFi network or networks with speeds of 2-50 Mbps,
- 685. **IR** Port that transmits data from wireless devices using infrared light waves
- 686. **Bluetooth** short range radio standard using radio waves range 100 Meters 2 Mbps/s
- 687. **bay** an opening inside the system unit where additional equipment can be placed.
- 688. analog signal: a signal that continuously fluctuates over time between high and low voltage.
- 689. digital devices that understand only two discrete states, on and off; describe most computers
- 690. Internet telephony using the Internet for telephoning
- 691. **VoIP** Voice over Internet Protocol allows phone conversations over Internet or network
- 692. **Public Access Point** a wireless transmitter for public use
- 693. **Bandwidth** the speed of a connection. is measured in bits per second
- 694. **Throughput** is the actual speed of data transfer that is achieved. Usually measured in **Mbps** megabits per second.
- 695. **Cat 6 best to use** as is designed for gigabyte connections. But Cat 5 was for 100Mbps.
- 696. Test internet connection speed at speedtest.net or broadband.gov
- 697. **UTP** unshielded twisted pair cable composed of 4 pairs of wire twisted around themselves is the **most commonly used network cable**. P317 limit 100 meters (328')
- 698. **Broadband** high speed (over 200Kbps) Internet connection usually using Cable, DSL or T lines
- 699. **Coax** coaxial cable consists of a single copper wire surrounded by three layers.
- 700. **GPS** global positioning system a satellite system for finding location
- 701. voice mail is e-mail using voice
- 702. wireless messaging sending messages without using wires
- 703. **LAN** Local area network which is a network covering a small area
- 704. **Ethernet** protocol that allows PCs to contend for access to the network. 10-100 Mbps
- 705. **NAS** network attached storage device
- 706. **TCP/IP** Communications protocol used to define packet switching on the internet.
- 707. Packet is an organized collection of data that is transmitted over a network .
- 708. **radio waves** electromagnetic radiation used to transmit signals over a distance
- 709. **WAN** Wide Area Network example the Internet
- 710. **microwave** a short electromagnetic wave used for communication
- 711. **Wireless Access Point** central communications device that allows data transfer wirelessly
- 712. **802.11** wireless communication standard known as Wi-Fi also spelled WiFi
- 713. **Why not go wireless?** more expensive, possible security problems, interference, batteries
- 714. **WIMAX** 802.16 next generation wireless broadband which is faster than WiFi has 31 mile range
- 715. **Intranet?** Internal private network; sometimes called an enterprise network.
- 716. **DSL** what is significant about it? probably best price bargain for higher speed
- 717. **Cable** fastest affordable connection for most people
- 718. **twisted-pair** cable is the most commonly used networking method.
- 719. **fiber-optic** cable is superior, faster 10 Gbps, static free, smaller, more secure. Lighter
- 720. **BMP** Bit Mapped picture a graphics format in which every dot is mapped, very big file
- 721. **.PNG** replaces JPEG and is better
- 722. **CAD** computer aided design used by engineers and designers

723. **GIMP** program that is a free photoshop replacement
724. Irfanview a very good free foto viewing program and more
725. **MIDI** interface for musical instruments
726. **podcast** is a MP3 audio file less than 10% of original size or with video MP4 to make just record, edit export to MP3 RSS is really simple Youtube RSS video
727. sampler digitally records real musical instrument to be played back at various pitches
728. sequencer allows adding tracks
729. synthesizer 289 produce sounds electronically
730. ADC analog to digital uses sampling to encode a sound wave 44,100 sps
731. **P2P** Kinds of networks Peer to peer just one machine hooked up to another with crossover cable
732. **Ethernet newtork** machines hooked up by CAT 6 cables hooked to a router
733. Client-Server a client machine hooked up to another called a server to share files from the server
734. **How to make a wireless set up more secure? Disable broadcasting of network SSID, Change the network name to a name differently from that of the factory name, use new password, turn on security protocols to WPA, Impliment media access control so it only accepts to certain computers, Limit the signal range,** apply firmware upgrades.
735. extranet an area of an intranet that only certain folks can access.
736. VPN virtual private network uses the public Internet to build a secure, private network among various locations. Uses tunneling data packets placed inside other data packets encrypted.
737. WiFi vehicle WiFi allows a moving device to connect to more than one access point at same time
738. **Fiber Optic Cable** made of glass or plastic fibers. Data can only travel in one direction. Comparison with wired max run length w 328' FO 62miles, bandwidth 10Gbps FO 10-40Gbps, FO less interference but higher cost.
739. OSI Model see book for details. Network adapters Switches, Bridges, Routers
740. **MAC addresses** media access control address Network security, Authentication, access privileges
741. Users connect to an ISP thru a POP point of presence. Could be bank of routers, modems, servers. Most done on client/server model but BitTorrent uses peer-to-peer
742. TCP/IP is the main suite of protocols Transmission Control Protocol and Internet Protocol
743. DNS domain name server stores the ip addresses of each top level domain
744. HTTP is the protocol used by a browser to transfer documents across the internet.
745. **SSL** secure socket layer and **TLS** are network security protocols
746. HTML and XHTML are scripting languages to mark up text for use as a web page
747. XML extensible mark up scripting language describes the content in terms of what data is being described rather than how it is to be displayed.
748. CGI common gateway interface provides a methodology by which your browser can request that a program file be executed instead of just being delivered to the browser. CGI scripts are placed in a directory called cgi-bin. This holds scripts to be run by the server. Called a server-side-program.
749. Dynamic HTML is used to create web pages that change after being loaded.
750. **JavaScript** is the most commonly used scripting language for creating DHTML effects.
751. Private Browsing feature stops recording of site history
752. To have more privacy use PGP Pretty Good Privacy from download.com also hushmail.com and comodo.com have encrypted mail
753. WIMAX a wireless alternative to WiFi worldwide interoperability for microwave access. Range 31 miles speed of up to 72Mbps faster than DSL