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CIA - 202 : Data Communications

ASSIGNMENT : 2

Q1 What are the different types of networks?

Ans There are mainly 3 types of network: WAN, LAN and MAN. a Computer network is set of various Computers which are connected for Sharing and Transferring purposes. Computer network is a digital Communication System which help our Computer to Connect different nodes.

Q2 Explain the Shielded twisted pair (STP) and Unshielded twisted pair (UTP).

Ans Shielded twisted pair cable (STP) has the Individed pairs of wires wrapped in foil, which are then wrapped again for double protection. Unshielded twisted pair cable (UTP) has each pair of wires Twisted together. Those wires are then wrapped in tubing without any other protection.

Q3 What ~~are~~ ~~the~~ difference between baseband and broadband transmission?

Ans. The d/b baseband broadband Whereas ~~baseband~~ we digital Signaling broadband we analog Signals in the form of optical or electromagnetic Waves over multiple transmission frequencies. For Single to be both Sent and received the transmission media must be Split into two channels.

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Q4 What is the difference between a hub, modem, router and a Switch?

Ans. In a hub, a frame is passed along or "broadcast" to every one of its ports. It doesn't matter that the frame is only destined for one port. The hub has no way of distinguishing which port a frame should be sent to template Layer

Hub physical layer Switch Data link layer
Router Network layer

Q5 When you move the NIC cards from one PC to another PC, does the MAC address gets transferred as well?

Ans. Yes that's because MAC address are hard wired into the NIC (Network Interface Card), not the PC. This also means that a PC can have a different MAC address when the NIC cards may replace by another one.

Q6 When troubleshooting computer network problems, what common hard-related problems can occur?

Ans
- the printer is not printing
- The System clock keeps resetting back to days.
- beeping coming from inside of a Computer
- The computer is restart itself.
- The Screen looks like in darkness

Q7 In a network that contains two servers and twenty workstations, where is the best place to install an anti virus program?

Ans. In a network that contains two servers and twenty workstations, where is the best place to install an anti-virus program the best solution is to install anti-virus on all the computers in the network.

Q8) Define static IP and Dynamic IP? Discuss the difference between IPV4 and IPV6.

Ans. The IPV4 is a 32-bit address, whereas IPV6 provides a large address space, and it contains a simple header as compared to IPV4.

Q9) Discuss Tcp/ip model in detail.

Ans. Tcp/ip reference model is a layer-layed suite of communication protocalls. Tcp stands for transmission control protocal. and ip ~~stands~~ stand for internet protocal. layers in the Tcp/ip protocal concerned with the physical transmission.

Q10) What is a web Browser (Browser)? give some example of browsers.

Ans. The primary function of a web browser is to render HTML the code used to design or "mark up" webpage.

Q11) What is the Search engines? give example.
a Search engine is a Software System that is designed to carry out web Search which means to Search the World. example. automatically from various online news sources to Reflect. Current usage of the words.

Q12. What is the Internet and WWW? What are the use of internet in our daily life.
The Internet is a global network of networks while the web, also referred normally as world wide web (www) is collection of information which is accessed via the Internet.

Q13 What is an Internet Service provider? give some example of ISP in India.
An Internet Service provider (ISP) is a company such as AT and T Verizon, Comcast, or Spectrum that provides Internet access to Companies families and even mobile users. ISPs use fiber optic Satellite, copper wire, and other forms. provide Internet access to its customers.

Q14 Discuss the difference between MAC address, IP address and port address.
Both MAC Address and IP Address use to uniquely identify a machine on

the Internet .. MAC address ensure that physical address of the computer is unique. Ip Address is a logical address of the computer and is used to uniquely locate Computers Connected via a network.

15). How do we view my internet browsers history.

the internet browsers by any window use the keyboard shortcut Ctrl+H, or navigate to the URL Chrome://history or. Clik the menu button which is located near the top right side of the browsers window and choose History then History again.