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Course Name:- Data Communication.

CCA 102 : Data Communication

Assignment 2

Q1:- What are the different types of networks?

Ans:- PAN (Personal Area Network)

LAN (Local Area Network)

MAN (Metropolitan Area Network)

WAN (Wide Area Network).

Q2:- Explain the shielded twisted pair and unshielded twisted pair?

Ans: Shielded twisted pair cable has the individual pairs of wires wrapped in foil, which are then wrapped again for double protection.

Q3:- What is the difference between baseband and broadband transmission?

Baseband Transmission	Broadband Transmission
① Digital Signalling.	① Analog Signalling.
② Frequency division multiplexing is not possible.	② Transmission of data is unidirectional.
e.g Ethernet is using baseband.	e.g:- used its transmit cable, TV to premises.

Qno4:- what is the difference between a hub, modem, router and a switch?

Ans Hub:- A hub transmits data from one device to another in form of binary bits.

• Modem:- Modems are useful in LAN and is used to connect the internet.

A modem is used as an interface between a digital & analog network.

• Router:- A router transmits data from one device to another in form of packets.

• Switch:- A switch transmits data from one device to another in form of frames.

Qno5:- When you move NIC Cards from one PC to another, does MAC address get transferred?

Ans yes, that because MAC addresses are hardware inside NIC circuitry, not the PC. This also means that a PC can have 2 different MAC addresses when another one replaced NIC Card.

Qno6:- When trouble shooting computer network problems what common

hardware-related problems can occur?

Ans A large percentage of networks is made up of hardware problems in these across can range from malfunctioning hard drives, broken NIS, & hardware startups.

Q707: In a network that contains two servers and twenty workstations, where is the best place to install an anti-virus program?

Ans The best solution is to install antivirus on all computers in the network.

Q708: Define static IP and dynamic IP? Discuss the difference b/w IPV4 and IPV6.

Ans When a device is assigned a static IP address, the address does not change. Most devices use dynamic IP addresses, which are assigned by the network when they connect and change over time.

Q709: Discuss TCP/IP model in detail?

Ans It stands for Transmission Control Protocol / Internet Protocol. The TCP/IP model is a concise version of OSI model. It contains 4 layers.

Q10:- What is web browser? Give some examples of browsers?

Ans: A web browser or browser is an application used to access or view websites. Common web browsers include Microsoft Edge, Google Chrome, Apple Safari, Internet Explorer.

Q11:- What is search engine? Give example.

Ans: A search engine is a web-based tool that enables user to locate information on the world wide web. Eg Google, Yahoo and MSN Search.

Q12:- What is Internet and WWW?
What are the uses of Internet in our daily life?

Ans: The world wide web. all the pages you see when you are at a device and you are online. But the Internet is the network of connected computers that the web works on, as well as other emails and files travel across.

The Internet is very useful in our daily life. Eg:-
① It helps us to see and receive emails and messages.
② It helps money transfer, net banking, bill pay and online shopping.

Q13:- What is Internet Service provider?
Give some examples?

Ans An Internet Service provider is an org. that provides services for accessing or using the Internet. The examples of Internet Service providers are BSNL, TATA, Verizon, Jio, Reliance, Airtel fiber and many more working in India as well as world wide. Internet Service providers or ISP are responsible for providing services for using the Internet.

Q14:- Discuss the difference between MAC and IP addresses?

Ans MAC address stands for media access control address. IP address stands for Internet

protocol address. MAC address is a physical address of Computer, is unique. IP address is logical address of Computer and is used uniquely to locate Computer connected via network.

Q15:- How do we view my Internet browser's History?

Ans In the lower-left corner of browser window tap and hold the back arrow. The page that opens contains your browser's history.