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CCA - 102 : Data COMMUNICATIONS
ASSIGNMENT

Q.1. What are the different types of Networks?

Ans. LAN (Local Area network)
PAN (Personal Area network)
MAN (Metropolitan Area Network)
WAN (Wide Area network)

Q.2. Explain the Shielded twisted Pair (STP) and unshieled twisted Pair (UTP)

Ans. Shielded twisted Pair Cable (STP) has the individual 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.

Q.3. What is different between base band and broadband transmission?

Ans. The different between baseband and broad band is that the baseband transmitting the signals and uses the complete bandwidth for transmitting the signals and occupy the whole cable while in broadband transmission, at the same time, Baseband is a digital signal is transmitted on the medium using one of signal codes like NRZ RZ Broad band

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system use Modulation teachiques to reduce the effect of Noise in the envitments.

Q.4. What is the defferent a hub, Modem, router and a Swich?

Ans. A hu Works on the physical Layer (Layer) of OSI Model While Swich works on the data link layer (Layer) A Swich can Join Multiple computers within one LAN and a hub just connects Multiple Ethernet devices to gether as a Single Segment. Swich is master than hub to determine the target of the forwarding data.

Q.5. When you move the Nic cards from one Pc to another Pc, does the Mac address gets transferried as well?

Ans. Yes, thats because Mac addresses are hard - wiredinto the Nic circuitry, Not the Pc. This also means that a Pc can have a different mac address when another one replaced the Nic card.

Q.6. When troubleshooting computer network Problems what common hard related Problems can occur?

Ans. A large Percentage of a network is made up of hardwere. Problems in these areas can range from malfunctioning hard drives, broken Nic and even hard were.

Q.7. In a networks that contains two Servers and twenty workestations, Where is the best place to install an Anti-Virus Program?

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Ans. An Anti-Virus Program must be installed on all servers and workstations to ensure protection.

Q.8. Define Static IP and Dynamic IP? Discuss the different between IPV and IPV6

Ans. When a device is assigned a stanic IP a adess the address does not chage, most device use dyname IP address, which are assigned by the network when they connet and change over time comparing IPV6 vs IPV4, IPV4 is 32 bit binary number IPV6 is 128 bit binarg number address are separted by periods while IPV6 address are separated by colons.

Basis for differences	IPV4	IPV6
Numbers of header fieds	12	8
Length of header fiods	20	40

Q.9. Discuss TCP/IP Model in detail.

Ans. TCP/IP Reference Model is a four-layered suite of communication protocols, TCP stands for Tranmission Control Protocals and IP stands for internet Protocol. The four layers in the TPC/IP Protocal Suite are - Host-to-Network Lager - It is the lowest lager that is concerned with the physical transmission of data.

Q.10. What is a web Browser (Browser)? Give some

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cepmple of browers.

Ans. → A web browser takes you anywhere on the internet. It retrieves information form other pastes of the web and displays it on your desktop or mobile device. The information is transferred using the Hyber text transfer protocal, which defines how text, images and viedo are transmitted on the web common web browers include Microsoft Edge, internet Explorer Google chrome, Mozilla birefox, and Apple safari. The primaly function of a web browser is to render HTML the code used to desighor 'markup' web pages' (Tech. Terms, 2014)

Q.11 What is search engine? Give example

Ans. A search engine is a software system that is designed to carry out web searches. They search the world wide web in a systematic way for particular.

1. Google. Google search Engine is the best search engine in the world and it is also one of most popular products from Google is one of most used search engines world wide that is used with the chromer brower.

2. Bing :→ Bing after Google is the best search engine example. Bing is operated and owned by microsoft. Bing provides the user a variety of search servies. like web, video image and map search products.

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3. Baidu ⇒ Baidu is the dominant internet search engine company in china. its features and services are smilar to those of Google, but its focus ison china. Where it controls Most of the search Market

4. yahoo! ⇒ A Search engine is a web based tool that anables users to locate information on the world wide web. PoPular example of search engines are Google, yahoo! and MSN search.

5. Yandex → Yandex search is a Search engine. It is owned by yandex, bassed in Russia. In January 2015 yandex Search generated 51.2% of all the search trafficin Russia according to live Internet.

Q.12. What is the internet and www? What are the uses of internet in our dailylife?

Ans ⇒ internet is a global Networks of Networks www stands for world wide web, Internet is a Means of connecting a computer to any other computer anywhere in the world. world wide web which is a collection of information which is accessed via the internet. There are Many uses of the internet, however. the use of the interent in our daily life depends on individual requirements and goals.

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1. Uses of the Internet in Education ⇒ The internet is a great platform for students to learn throughout their lifetime. they can use the internt to learn new things and even acquire degrees through online educat -on programs.

2. Internet use to speed up Daily tasks → The internet is very much useful in our dailyroutine tasks. for example. it helps us to see our notifications and emails. A part form this, People can use the inter -nt for Money transfers, Shopping order online food etc.

3. use of the internet for Shopping ⇒ With the help of the internet, any body can order products online. The increase in online shopping has also resulted to companies offering a huge discount for their customers

4. Internet for Research and Development → Theinternet plays a pivotal through internet research. The benefit of the internet is enjoyed by small businessmen to big universities.

5. Business promotion and innovation ⇒ The internelt is also used to sell products by using Variouse - comerce Solutions. The result is new services and businesses starting every day these by crating job opportunities and reducing unemployment.

6. Communication ⇒ Without a doubt, the internet is the most powerful medium of communication at

at present. it connects People across different Parts of the world and fast.

7. Digital transactions → The internet facilites internet banking, mobile banking, and e-wallets, Since all digital transactions are stored a database it help the government to tracks income tax details of income reports in the ITR

8. Money mangement ⇒ The internet can also beused to manage, Money. Now there are may website, applications, and other tools that help us in dairy transations, transfers, Manag-ement, budget.

9. Tour and Travel ⇒ During tour and travel the use of the internet is highly effective as it serves as a guide. People browse the internet before they start visiting the places. Tour bookings Can also be come using the internet.

Q.13 What is an internet, Service Provider? Give Some example of ISP is india.

Ans. ⇒ An Internet Service Provider is an organiz-ation, using, provides a myriad of Service for accessing Providers Can be organised in various forms Such as a commercial, community-owned, non-Profit, or otherwise Privately owed. The examples of some internet Serive providers are Hathway, BSNL, Tata,

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-telesarvices, Verizon, Reliance, Jio, Act Fiberent and many more working in india as well woorld wide.

Q.14. Discuss the difference beetween MAC addrlss IP. address and Portaddress.

Ans. The main difference between MAC and IP address is that MAC address is used to ensure the physical address is used to ensure the Physical address of the compu er. uniquely used to ensure the physical address of the computer. identifies the devices on a network. While IP address are used to uniquely identifies the connection of the network with that device take ~~Part~~ in a network.

15. How do we view my internet browser is history?

Ans. step 1. open the brower and click on the three dots and the History.

step2. clicking on this will open up your browising history with the most recent you have visited first. you can Scrook down the list.

Step-3. from this list you can click on any Dage display to revisit. Alternatively if you click on the three buttoms in the coner you get the options in to open. history page or clear browsing data.

Step.4: if you select open History paye you can search the History using keyword in the Search box or Choose a data range. This is useful if you can remember the hamke of the site. or up proximately when you visitedit.