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Assignment - 2

Q1 What are the different types of network?

Ans = **Network**

A Network consists of two or more computers that are linked in order to share resources (such as printers and CDs), exchange files, or allow electronic communications. The computers on a network may be linked through cables, telephone lines, radio waves, satellites, or infrared light beams.

Seven types of networks and their use cases

- **Personal area network**

Personal area network (PAN) is the smallest and simplest type of Network. This type of network is designed to enable device in a small office or

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home office (SOHO) Environm
to office communicate an
share resources, data and
applications either wired or
wirelessly.

Local Area Network (LAN)

A local area network (LAN)
consists of a series of computer
linked together to form a
network in a circumscribed
location. The computers in a
LAN connect to each other
via TCP/IP ethernet or wifi.
A LAN TCP/IP is normally
exclusive to an organization
such as a school, office
association or church.

Wide area Network (WAN)

A wide-area network (WAN)
is the technology that connects
and your office, data centers,
cloud applications and cloud
storage together. It is called
a wide-area network because
because it spans by and a

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single building or large campus in include multiple locations. Spread across a specific geographic area or even the world

4 Wireless local area Network (WLAN)

A wireless LAN is a wireless computer network that links two or more devices using wireless communication to form a local area network (LAN) within a limited area such as a home, School computer laboratory, campus, or of office building

campus Area Network

A campus network, campus area network corporate area network made up of an computer enter connection of local area network within a limited geographical area wikipedia

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6 Storage Area Network

A Storage area network (S[illegible] is a dedicated network tailored to a Specific environment — combining Servers, Storage System, networking Switches Software and Services.

Q.2. Explain the Shielded twisted pai[r] (STP) and unshielded twisted pair (UTP)?

Ans Shielded twisted pair (ST[P])

Shielded twisted pair (STP) is [a] Special kind of copper telepho[ne] and local area network (L[AN]) Wiring used in Some business installations. It adds an oute[r] covering or Shield that functio[ns] as a ground to ordinary twist[ed] pair Wiring.

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Unshielded twisted pair (UTP)

UTP is a ubiquitous types of copper cabling used in telephone wiring and local area network (LANs). There are five types of UTP cables. - identified with the prefix ~~cat~~ CAT. as in category each supporting a different amount of bandwidth.

Q.3 What is difference between base band and broadband transmission

Baise band

Broadband system use modulation techniques to reduce the signal codes like NRZ, RZ manchester biphase - M code, etc called baseband transmission.

Broadbcard

Broad board

the

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Baise band — Baseband is dig
signal transmitted
on the medium using one of th
signal codes like NRZ, RZ
manchester biphase – M code
called baseband transmission

Broadband — Bradband Syst
use modulation
techniques to reduce the effe
of noise in the environment
Broadband transmission
employs multiple channel
unidirectional transmission
using a combination of phase
and amplitude modulation.

These are the following differe
between Broadband and Transm

	Baseband	Bradband
1.	Digital signaling	Analog signaling
2.	frequency division	The transmission of data

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	Baseband	Broadband
1.	In baseband transmission the type of signaling used is digital	In broadband transmission the type of signaling use is analog.
2.	Baseband transmission bidirectional in nature	Broadband transmission is unidirectional in nature.
3	The signals can be sent in both directions.	Sending of signal in one direction only
4	It works well with bus topology	It is used with a bus as well as tree topology.

4 When you move the NIC cards from one PC to another PC does the MAC address gets transferred as well.

When you move the NIC cards from one PC to another PC, does the MAC address gets transferred as well? yes. That's because MAC addresses are hard wired into the

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Dynamic IP Address

An dynamic IP address that you can use for a limited time. If a dynamic address is not in use, it can be allocated to another device automatically. DHCP or PPPoE are used to assign dynamic IP address.

Difference between Static and Dynamic IP Address

	Static IP Address	Dynamic IP
1	Internet Service provide. Is provides the Static IP Address	DHCP is used generate dynam IP Address
2	Static IP Address does not get changed with time	Dynamic IP Ad can be change any time
3	Static IP Address is less Secured.	Dynamic IP Address being Vo in nature is less risky

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4.	Device using Static IP Address can be traced easily	Device using dynamic IP Address is to difficult to trace.

IPv4 is composed of 32-bit address length and is the fourth version of the Internet protocal (IP). IPV6 is composed of 128-bit address length and is the latest updated version of the Internet protocal (IP)

Difference between IPv4 and IPv6 Address

Here is the main difference between IPv4 and IPv6.

	IPV4	IPV6
1	IPv4 is a 32-Bit IP Address	IPV6 is 128 Bit IP address
	IPV4 is a numeric address and its binary bits are separated by a dot (.)	IPV6 is an alphanumeric address whose binary bits are separated by a colon (:). It also contains hexadecimal.

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There are 10 Examples of web Browsers. which are give below.

1. Internet Explorer
2. Google chrome
3. Mozilla fire fox.
4. Safari
5. Opera.
6. Konqueror
7. Lynx.
8. Tor Browser.
9. UC Browser
10. Brave Browser.

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Q.10 What is a Search Engine? give Example.

Search Engine

A Search Engine is a Soft Ware program which designed to perfo Web Searches on the Word Wide ~~Web~~ Web (W.WW) you c call the Search Engine as an answering Machine. Sea Engines discover, process and Organize internet content and provide it to users whe Searching for any informa A Searching Engine is a we based tool that is use by people to locate Inform on the internet Some of th most popular Example of Search Engines are Google Bing, yahoo & MSN Search.

Google is the most u Search Engine World wide with a 92. percent market sh in mid-2019 - Google my b one of the most popular Sear Engines but there are many more alternative Search

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Engines available for a users.

Top search Engines alternative to Google.

1	Bing	2	Duck Duck Go
3	~~Ecosia~~	4	
3	Wiki.com	4	Ecosia
5	Yahoo	6	Swisscows
7	cc Search	8	Qribisu
9	~~gibiru~~ QWant	10	YANDex
11	ASK	12	Disconnect

Q11 What is the Internet & WWW? What are uses of internet in our daily life?

Ans Internet

A global system of interconnected computer, using a standardised Internet protocol suite for communication and sharing information is called the Internet

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World wide Web (WWW)

The World wide web, commo
Known as the web is an
information System Enabling
documents and is an
information System Enabling
documents and other
web resources to be accessi
over the Internet.
To day, the internet has becom
undividable in our daily life
Appropreate use of the internet
marks our life easy, fast
and simple The internet help
us with facts and figures.

Importance of Internet technol
for easy life -

1 Uses of the Internet in Education
2 Internet use to Speed Up daily
3 Use of the Internet for Shopping
4 Internet for Research & Develop
5 Business promotion and Innov
6 communication
7 Digital transactions
8 Money Management.

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Q12 What is an Internet service provider? Give some Example of ISP in India.

Ans An ISP is a company that provides individuals and organizations access to the internet and other realated services. An ISP has the Equipment and the telecommunication lin access Equipment. to have a point of presence on the internet for the geographic area served.

Example ISP in India

1. Airtel India
2. Beam fiber
3. Bharti Airtel
4. Bharti Enterprises
5. BSNL Broad band
6. DEN Network
7. idea cellular
8. Jio
9. Maharanges telephone Nigam
10. MTSM - Blaze
11. Sanchar net
12. Siti cable

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13 Spectranet
14 Spice Telecom
15 Tata Teleservices
16 Tikona Digital Network
17 Uninor
18 Videocon
19 Vodafone India
20 YOU Broadband

Q13 Discuss the difference between MAC address, IP address, and port address.

Ans An IP address is a 4 Byte identifier. That identifies your internet access in a world wide unique unique fashion. It is like home address of your house. It is used by the internet router to deliver a data packet to your house. In arabic numbers IP address (Version 4 - there is also a new standard, version) are shaw as a.b.c.d where a,b,c,and d are integers between 0 and 255.

A mac address is an identifi

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of your computer's network acess. It is imparted by your computer's manufaction on the network card. and is menufaction Specific Mac address used to be unique to a devices. but that is long gone. Strictly Speaking they are needed inside a local area network four deced delivery of a packet from one machine to another one directly connected Inside a LAN they must be unique.

A port address is an identifier (16 Bit, integer up to 65535) that identifies the ~~packet received~~ application on your machine to deliver the packet received by the network card to. In the analogy of the houses address this is your or another person name living in that house. So that the delivery can be completed.

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Q14 How do we view my internet browser's history?

Ans Android phone or tablet run Google Chrome -

1. open the Google Chrome internet browser

2. In the upper-right corner of the screen, tap the icon

3. In the drop-down menu that appears, select history. and shown in the image.

4. The page that opens contains your device's history -