**BBD University** 

## **Assignment-01**

Computer Network

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## ASSIGNMENT - OL

what is computer Nexwork will all the features of computer network?

Q-1

A computer network is a callection of interconnited de wices that communitate with each other to share resources and information. Here are some key feature of computer Network.

- O communication:- Nelwork enable devices to exchange and importantion.
- O resource sharing:

  Devices con share

  nesources such as printers, files

  and internet access.
- 1) Scolability:- Network con be exponded to accommodate more devices and users.
- Realiability:
  Redundant path and backup

  14 Her can ensure network neuropility

  and availbility.

@ connectivity !-

Different Lypes of Adwark (LAN, MAN, WAN etc.) comed devices locally on own long distonce. pr write the type of connection in

Computer Nelwark and elaborate nodes nædes of computer Nelwarks

Types of connection:-

1 wired connection:

· Ethernet:The most common type of wined connection, using coples (like cals. cats) le conneil devices to each when. nauters on directly

· Fiber oplies:
Uses light signal to transmie data, at very high speed over long dislance, priarity higher bandwidth and over lolency companed to copper cobles.

- @ wincless connaction: -
  - · wi-fi (winders findeliny) usu rodio cours to connect devices within a specific mange, hypically in a home an office enviousment.
- 36,46,5G
- 1 UPN:- Virtual private Nelwark.

Noors in computer Network:
D Client Noors:-

- · Wankstalion / Pcs/Laptops
- · Mobile Douices
- @ Sorus Nody:-
  - · file sources
  - · web some
  - \* Dalobase servir
  - · Application some

## @ relevent davices :-

- · Paules
- · Switch
- · Hub
- · Madem
- 1 Peripheral Modes:-
  - · portor / scorper
  - · Network Atlached storage (MAS)

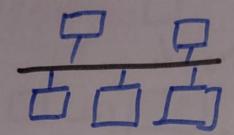
es write all topology of computer Network explain the advantge and disadvalage of lopology?

of different elements ( links nod & etc)

in a computer lypes of Network

of topology.

Deus Topalopy!
to singal cabel knows all connectes
on boel bons of cobel. data sind
from a devicer travels alongs its
bus until it neather its destination.



Adventage: -

- · simple and cost offective.
- · Good for small network.

Disaduantay: -

- · Limited copel length and number of Nody.
- performance issue.

(2) slar Topology:Ale devices are connedlé to a central hub an switch The Lyb act as a signature for dalo flaw.

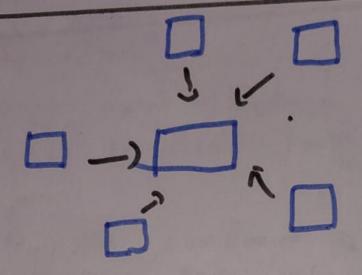
Advontage: -

- · Easy to monayo
- · Reliable

Disadventge:- Might depring on contra

node.

· Mare cobility.

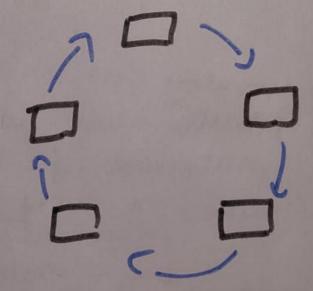


Thing topology: 
Each devices

is connected to two other devices

termine o circular doto path

palo trouds in one direction



Ad contag: 
Eldiend data transfer.

Earler data transfer

Pisadurentaye:-

- · Singu paint of tailur
- · Easin to isolate faults.

9-4

Communicate explain it with proper aiagram?

Dato communication reters to the exchange of data between two on meer devices through a transmission medium.

(D) Sind in:

an entity that initiates the communical cation by transmitting date. This

The necessar is the davices the receiver data sent by sender.

O message:
It is a actual para con

Notes malien that be transmitted.

0 endocals: TCP/IP HTTP FTP SMTP menage ١٢ ما دما Prolocal Sender Receiun TYAM mission miden Explain transmission madia with mar Transmission media an the physical porthway that connect computer, ather dewices, and people on a network. to another. Transmission media.

## Transmission Media

husided Media

+ coosia

- fibo

- Tel'sted pair

Angwided Leadiowale - Michowale Infrance

ge white transmission mode and explain
it proper examples?

Transmission mode refered to the way date is transmitted between two demices in a network. It defines the direction of singul flow between two the communication.

Jimper Mode

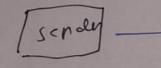
(ransmission

Half duplus Mod

full Dupler Mode



6 Simplex mode: - This mode of communication is un'directional mooning date flow only in one discettion. e.g. . > Tu Broocast.



Reco'ver

1) Half Duplex:-In this, communicalian is bidinectional but not at same time



(.g. >) Valci - Faki

Schola Recaison