

IB Computer Science

Note Title

9/9/2005

① Topology: Physical arrangement of workstations/computer in a network.

H/W required for a network

① Network card

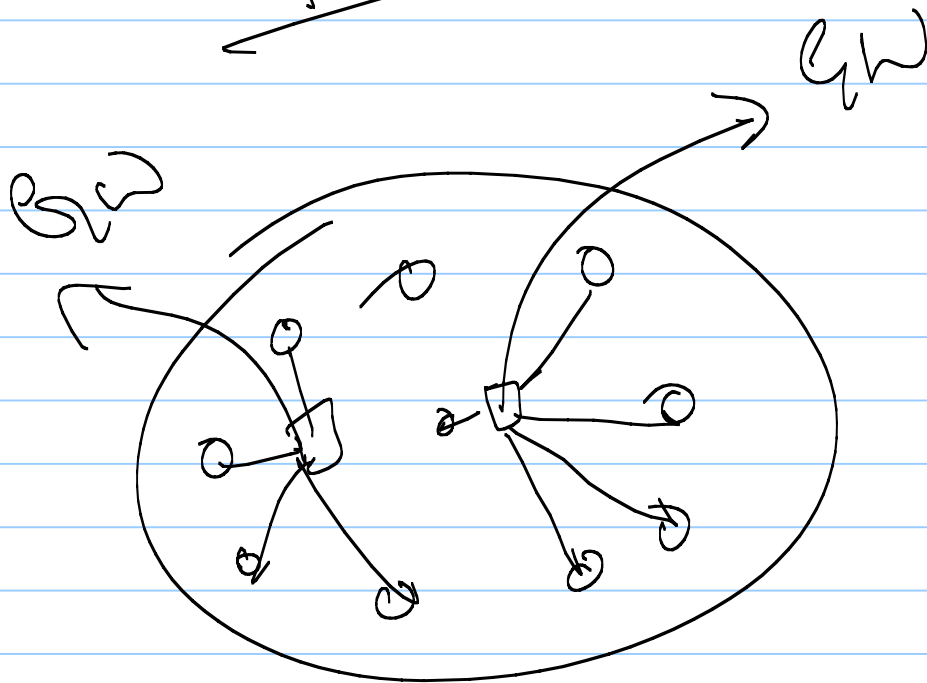
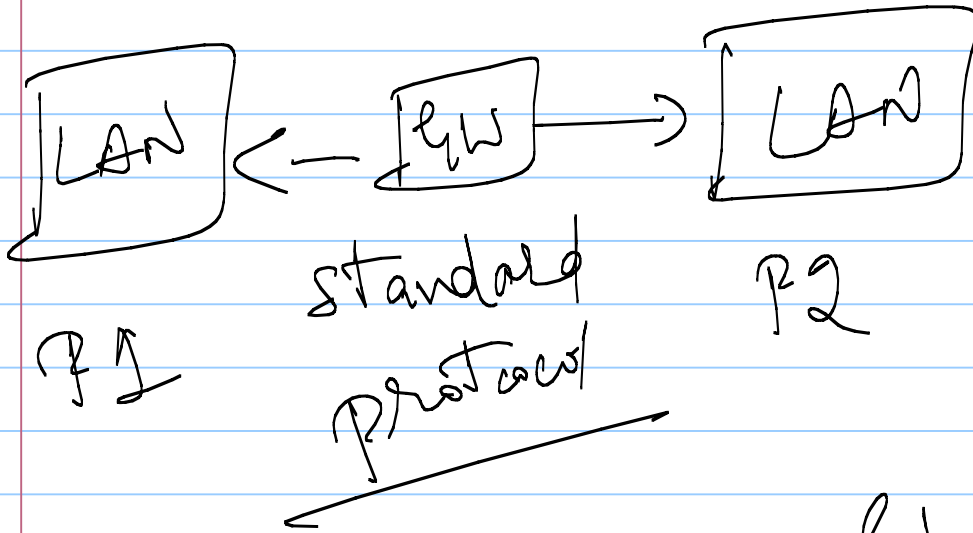
② Cable

③ Hub → Switched Hub
(DESTINATION)

④ Router

⑤ Switch

⑦ Gateways



3.4.4 Data Integrity

Reliable

Switching networks

- ① Circuit switched. (physical)
- ② Packet switched. (logical)

PROTOCOL set of rules

that every network follows to connect and exchange data/information.

Protocol rules :

①

Error checks.

②

Data compression

③

Data transmission completion signal.

④

Data transmission receive check.

Data Integrity :

Reliable/
Accurate?

Data Security :

Safe?

Secure?

① NOISE / Data Transmission

Robustness

Parity Check →

A

B

1010 1100

2nd flip

1110 1100

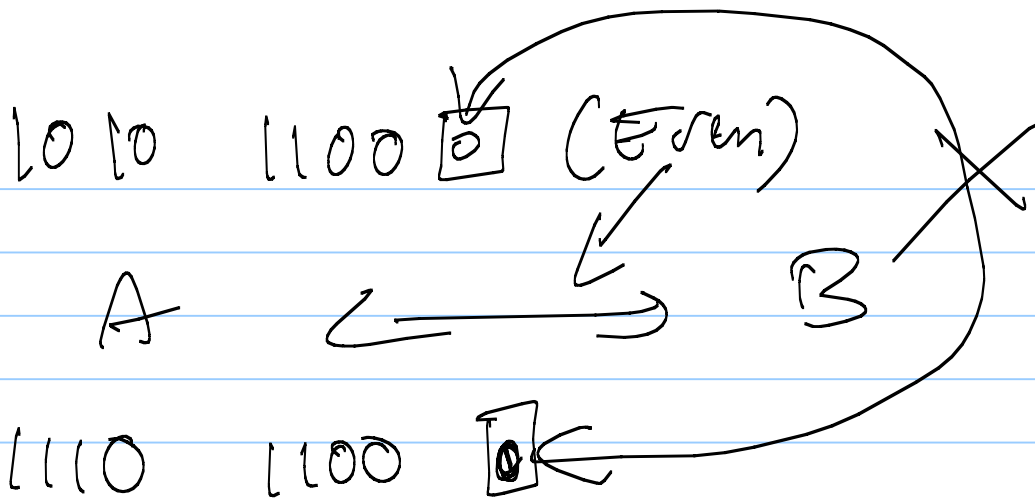
Parity

- Even

+ Odd

If 0P, then PB = 0

If 1P, then PB = 1 (to make it even)



Data Encryption?

Make it CRYPTIC

(hard to understand)

"CALL ME NOW."

"DBMM NF OPX"

"FD00"

A = K

B = Δ

C = %

D = 4