

CSE - 321

Tanenbaum.

peer-to-peer (P2P) ଟେ ଆର୍ଟ୍ଟ server,

ଆର୍ଟ୍ଟ client (ଏକତ୍ର ଟେ ଆର୍ଟ୍ଟ server,

ଟେ ଆର୍ଟ୍ଟ client ଟିଆର୍ଟ୍ଟ ଟାଉ ଟାଉ)

* first world countries ଏ ଆର୍ଟ୍ଟ ~~one~~
directional antenna use ହେ, ଏଆର୍ଟ୍ଟ
ଏଡ୍ direction ଏ communicate ଟାଉ

ମାଧ୍ୟମ, But ସଫଳତା ଅଳ୍ପ ~~ଅଳ୍ପ~~ ଅଳ୍ପ
ନା, [wireless, ~~କିଛି~~ କିଛି mobile
ନା]

* first world country hotels - ଏ,
wifi ଯାଏ ହିଁ ନା, Room - ଏହା
ଚିତ୍ତ ଆୟାଯା jack ଦିଅ entry
point create ଅଳ୍ପ ସଫଳତା, [mobility
ହିଁ, but wireless ସହ]

→ point-to-point ଆଉ broadcast - ଏହା
ଆକାଂକ୍ଷିକ (multicast. [sending data
to a group of people. ~~ଅଳ୍ପ~~
ଅଳ୍ପଟା send ଅଳ୍ପଟା broadcast.]

* ଅଳ୍ପଟା inter network → internet
world wide ଅଳ୍ପ network → Internet
small
capital

CSE - 321

5/6/23

Subnet → Connecting devices (Router)

ଦିଆଯାଇଥିବା network [Computer
device ଏହା ଏକ, just

Subnetwork

[ଏହା ଏକ router
ଏକ network ଏକ
connect ଏକ ଏକ
ଏକ network ଏକ
ଏକ.]

→ Logical Path

→ Path નિર્ધારિત સેવા data sending
સેવામાં સેવા Connection oriented
service.

→ નિર્ધારિત ના સેવામાં, એકવાર packet
એકવાર path - એ સેવામાં ના, એક
સેવામાં Connection-less service.

→ Protocol Layering - એક સેવામાં
modularity.

→ Interface માળખાકીય Layer - એક
સેવામાં સેવા Data આધાર-
પ્રદાન સેવા.

→ પ્રતિ Layer ની સેવામાં સેવા
એ: સેવામાં metadata add સેવા,
[head/tail/both]

→ Flow control means ~~data rate~~

sender rate \approx receiver

rate synchronize \approx

CSE - 321

→ Sender layer by layer → metadata
add ਘੜਾ, Receiver same ਘੜਾ
strip ਘੜਾ,

→ Acknowledgement Reliability ਘੜਾ
part. Reliability → ਘੜਾ ਘੜਾ ਘੜਾ

- receive ਘੜਾ Acknowledgement
back ਘੜਾ,
- Fail ਘੜਾ resend ਘੜਾ,

→ Service Primitives → Baseline operations.

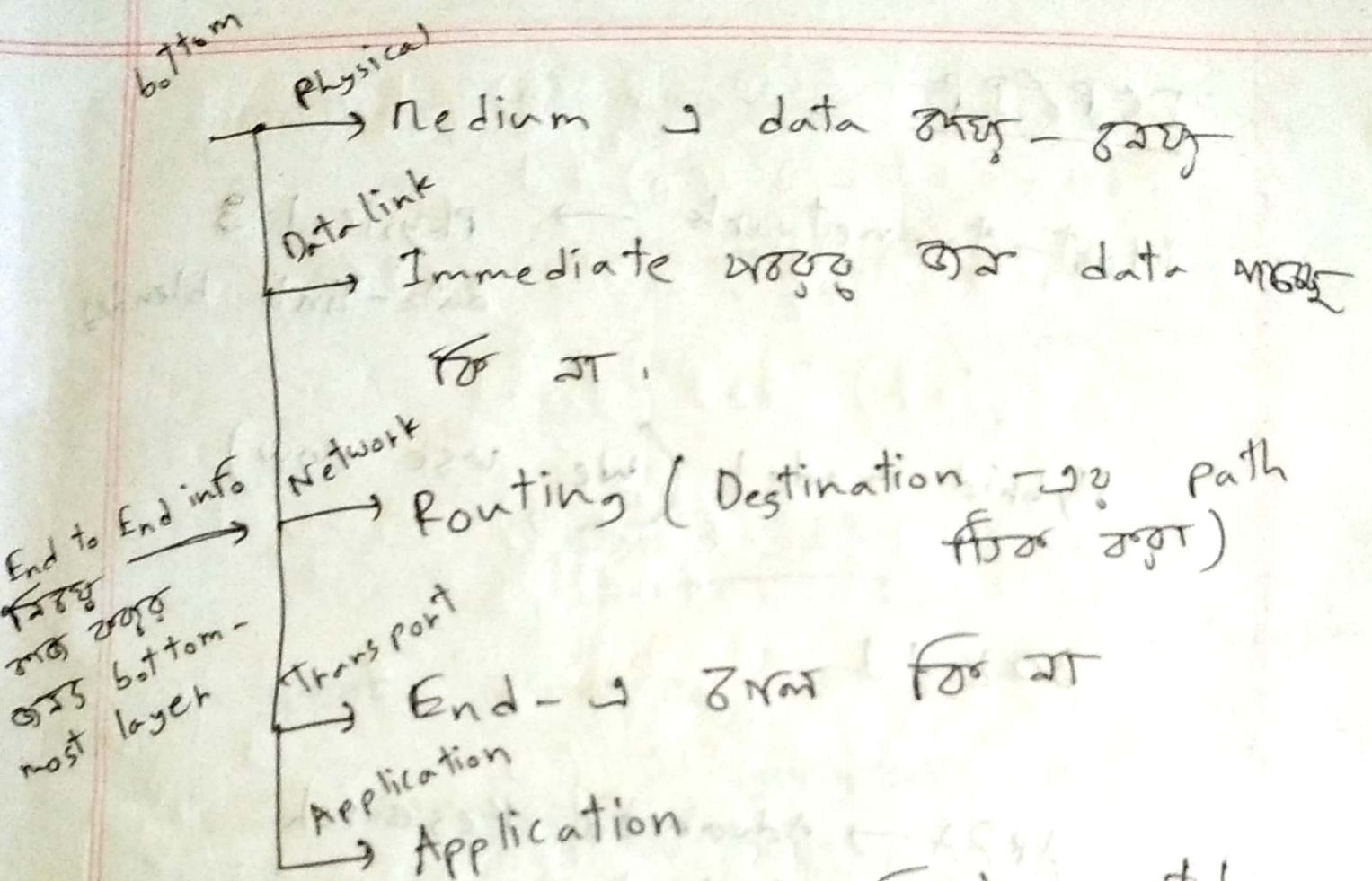
- Server ~~up~~ up ~~રજી~~ Listen mode
→ બંધ, Client connect કરે,

- Socket સીસ્ટમ interface. Coding →
socket સીસ્ટમ Computer Network →
connect એ interface.

- Server એ raw coding પ્રતી
OS → બંધ, instructions

- એક Layer પરે રાજ પ્રતી રજી
સીસ્ટમ service.

OSI → Open System Interconnection



OSI is a fundamental layer [which is a 7 layer ~~model~~ model which is used]

session → Communication session management

Presentation → Data format Present transfer

TCP/IP

Host-to-network → physical 3
data-link blended

Hybrid model (we use now)

802.11

ARPA → Advanced Research
Project Agency

INP → Internet Message
Processor

NSF → National Science Foundation

POP → Point of Presence

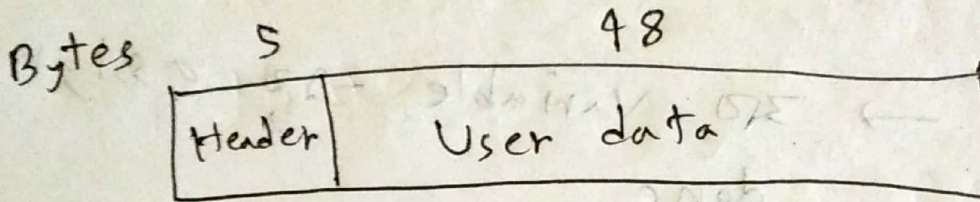
NAP → Network Access point
(Backbone - Backbone Connection)

ATM \rightarrow Asynchronous Transfer Mode

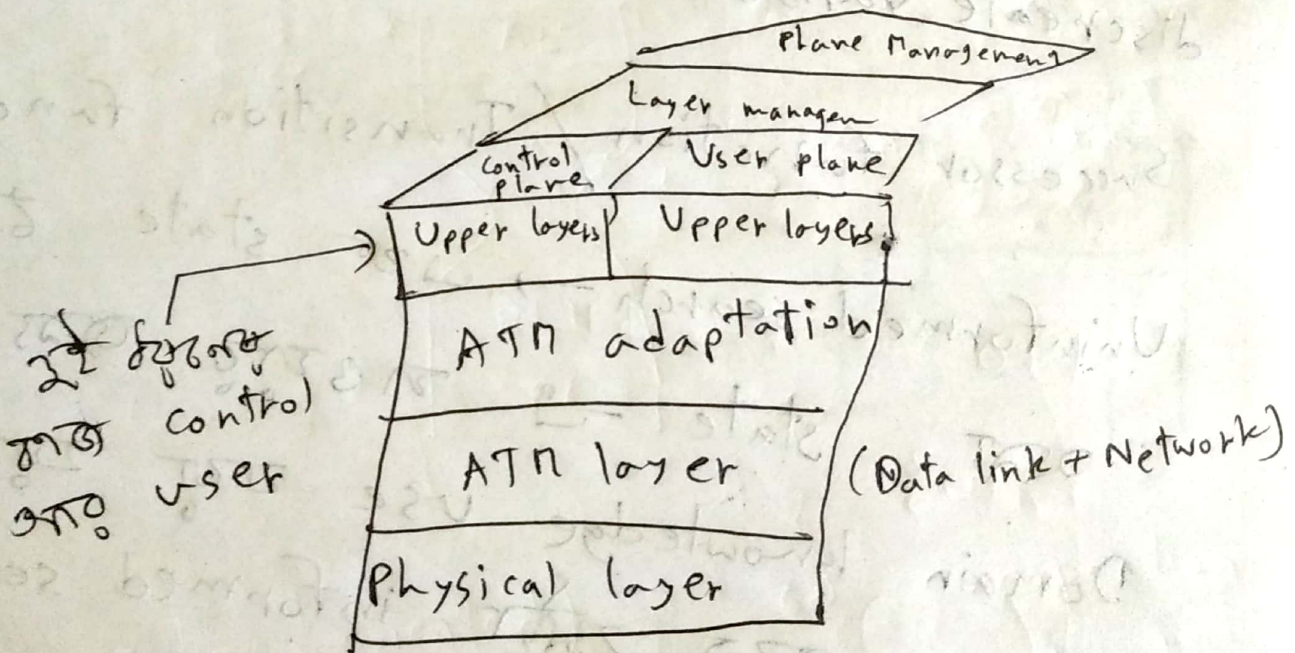
Virtual Circuit ~~is~~ = Logical / Virtual Connection

ATM

Asynchronous Transfer mode



ATM cell



ATM adaptation → cell
 ATM layer additional data add
 cell →

CS \rightarrow Adaptation layer - ଏହା ଉପରକୁ

layer - ଏ ଚିହ୍ନିତ Application

ସାହାଯ୍ୟ କରିବା ପାଇଁ ଏହା ଏକ

uniform ~~inter~~ interface

serve କରେ ।

SAR \rightarrow cell - ଏହା କରେ - ଏହା Data

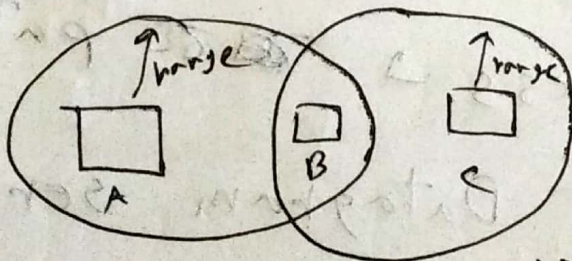
ଆବେଗ କିମ୍ବା ତଥ୍ୟ ଏବଂ

reassemble କରେ ।

TC \rightarrow Data - ଏହା bit by bit ତଥ୍ୟ

PMD \rightarrow physical medium \rightarrow ଏହା କରେ

checksum \rightarrow Error correction and
detection ଏବଂ ଏହା ~~additional~~
additional parts



A ଆଉ C ସମ୍ବନ୍ଧରେ
Sense ପଦ୍ଧତିରେ କରେ
ଅ. ତାହା ହେଉଛି at a
time B ତଥ୍ୟ ପାଇଁ
garbage କରେ ପାରେ ।

* Router network layer - ଏହା ଏକ
ଆଉ ଏକ ଏକକ, ଏହା ଏକ
network ଆଉ ଏକକ Layer
ସୂଚକ,

PDU → Protocol Data Unit
Network layer