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Best Quality Hand Written Notes to Crack GATE, IES, PSU's & other Government Competitive/ Entrance Exams

ELECTRONICS ENGINEERING

ACE ACADEMY

Topper Handwritten Notes

Advance Communication

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Courier Facility All Over India (DTDC & INDIA POST)

	Advanced Communications	
	Computer Networks -> Forouzam (Downlo	
	Computer Networks > Forousan Computer Networks	
2 2 3 7 7 7	An interconnected Collection of autonomous Syste	
i s	on feet 9	
18 S.	Goal 1) Resource sharing [AS] AS	
7. 10. 10. 10.	a) Saving money (Little more)	
and under rest	3) Communication possible.	
E SALAKOMETER RAPIGE	moster slave linking: Not a computer Networks.	
STATES AT LEE	Alabania Ala	
SEASON OF THE SEASON	Network Architecture = layers + Protocol	
Poll Markets Co. L.	Cayer = module	
E-4240 MARTIN	Purpose: To hedace the design Complexity	
	Consider the design Complexity	
	(one Big module VS 7 Small modules)	
	; Protocol: (understand)	
	Set of rules of Consolin	
	Set of rules of Conventions are formulated to have smooth communications.	
	o did big and	
* *		
	O ARPANET	
	TBM & SAID	
	Agency Now System Now	
	of the tecture	

→ The proposed model has 7 modelles (layers) and standandized by ISO with Name ISO OSI model.

Proposed model	Existing	Ensuing)
Iso-osi model International Stand Orgn - open system Interconnection Interconnection	TCP/IP Transmission (co) control protocol themet protocol (ci) 5 layers	ATM Asynchronous Transmission mode. 3 layers

-> At present the internet is based on TCP/IP architecture

Components of chwis

Host (end system)

- Create (or) Receive messages

Subnet

→ TO carry messages

→ collection of Intermedicule Switching elements
(Routing)

connection oriented (00)

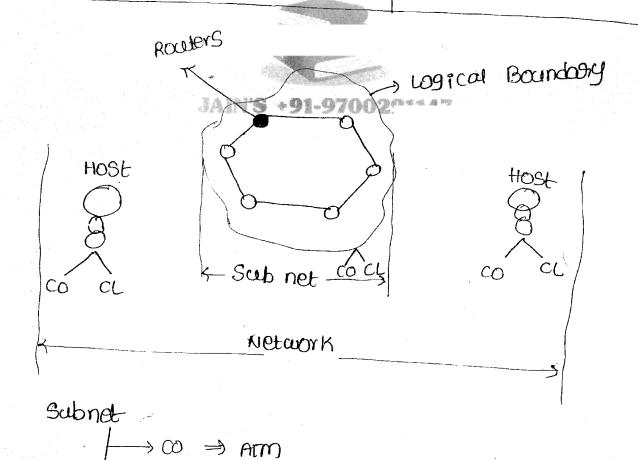
- connection less be
- 1) Establishing a connection
- a) Transfer data.

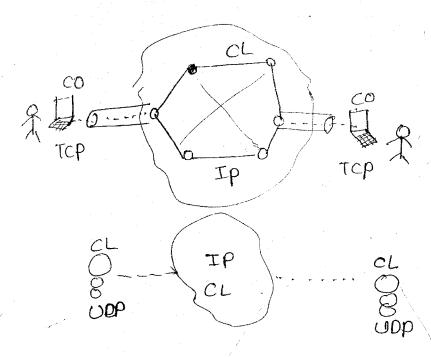
()

- 3) Releasing Connection
- -> Based on Telephone System -> Based on postal
- -> In the sequence, the packets are delivered.

CL =)

- 1) X
- 2) /
- 3) X
- → Based on postal System.
- of through diff. paths.





IP - Internet Protocol - CL @ Scubnet

TCP - Transmission control protocol - co @ Host Retratile device

UDP - User datagram Protocol - CL @ HOST (Query/Response)

© calculate the 1. of overhead to transmit a msg of Size im' bits in a n-layered architecture. Where in each layer in bits of header is included.

$$\frac{\text{Sol}}{\text{m+nh}} + 100 \qquad \text{message} = \frac{\text{m b?tS}}{\text{header}} = \frac{\text{m b?tS}}{\text{header}} = \frac{1000}{\text{header}} = \frac{1000}{\text{layers}} =$$

Each layer = h m^1 layers = nh = 1000+50Total message = m+nh = 1000+50

7. Other head = $\frac{\text{Head}}{\text{Total mSg}} = \frac{\text{nh}}{\text{m+nh}} \times 100 = \frac{50}{1050} \times 100$