



COMPUTER SCIENCE & ENGINEERING

INFORMATION TECHNOLOGY

Computer Networks

Hand Notes For GATE, PSUs & Competitive Exam

Hand Notes

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Note : We also providing GATE, PSUs & Competitive Exam Materials [Handnotes, Shortnotes & Books], All Reports [Seminar Reports & PPT]

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Kishor Kaelam

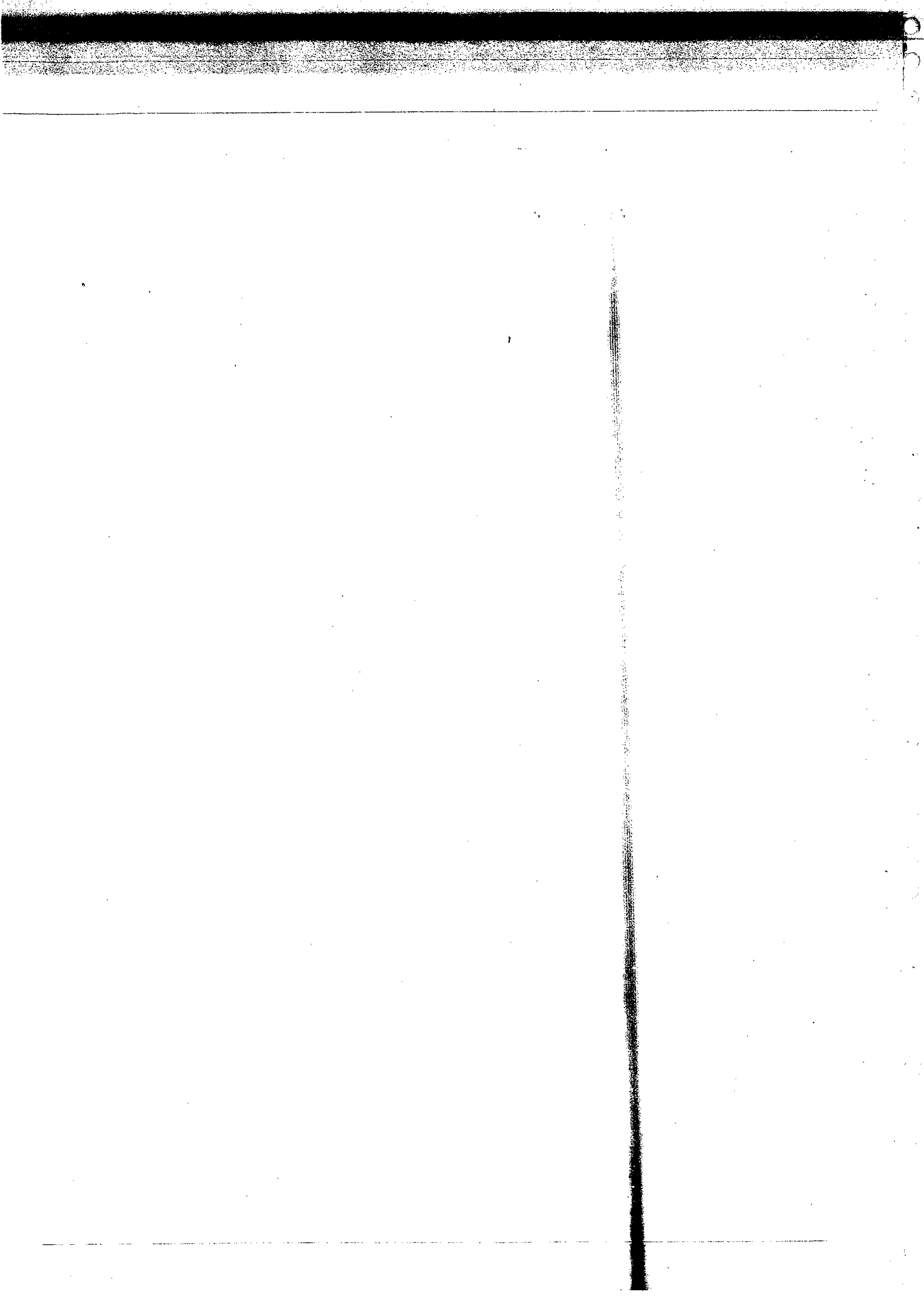
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Computer Networks

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10-7-2011

Problems associated with Computer Network:

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- * communication
- * identification
- * connection.

1. communication: protocol is a language of computers needed for communication of the computers.

some of the protocols are:

HTTP: web browser

SMTP: Mail communication

FTP: File communication

NTP: Network time protocol

~~SMTP~~

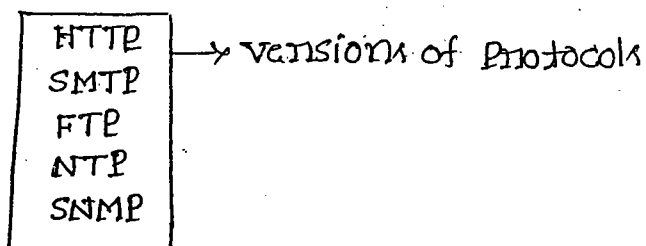
- * Location of the protocol is NOS (Network operating system)
- Network time protocol:

Transactions are done by storing source time slot and converting to the destination time slot and mailing to the user.

Indian time ———— U.S.A Time
 Mail

Network Management protocol:

DOS + All protocols = window NT



HTTP: (Hypertext transfer protocol): Browser requesting for a web page

HTTP: 1.0, 1.1, 2.0 (Application protocols).

* RFC: Request for Comments \Rightarrow stand for computer network.

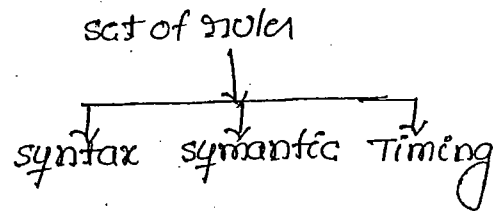
* concept of computer n/w have an RFC number

RFC₁
RFC₂

RFC 793 \rightarrow TCP/IP

RFC 3700

Protocol: A set of rules and regulation or conventions

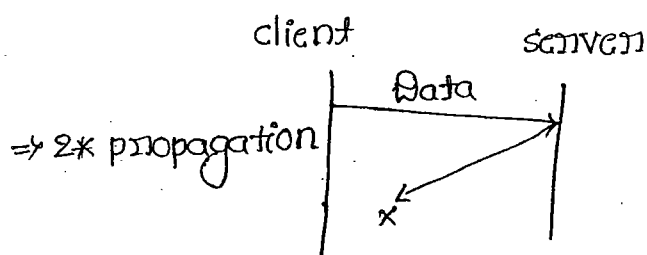


* Rules and regulations must be crystal clear & there must any duplicates and any invalid syntax is not acceptable.

* Timing is starting and ending a task must be mentioned.

* syntax \rightarrow send acknowledge

* semantic \rightarrow Receive acknowledge.



* RTT is measure of delay b/w 2 hosts

* Minimum acknowledge waiting time = $2 * \text{propagation (RTT)}$

* Maximum ack. waiting time = $2 * (\text{min. ack. waiting time})$

$= 2 * (2 * \text{propagation})$

$= 2 * \text{RTT}$

Round Trip Time \rightarrow RTT Turn over time \rightarrow Time out (ol)

* Protocol is an agreement between the communicating parties on communication is to proceed.