classmate WikiTachy Oate Page Network - set of devices connected enable devices to communicate with another and share data Network Reliability @ Pailuse of forguency

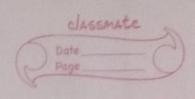
(2) Downtime - time it takes to secone Banchwith

- range of limit b/w it's

upper > & lower > Link (waxial cable, optial fibre) A network consist of -:

(1) host device - pc, mobile, pointer, etc.

(2) networking devices - switcher, vouter



Galeway / Router

nocle that is connected to 2 or more network.

Swiket Router []

- Naming system for all resources over internet.

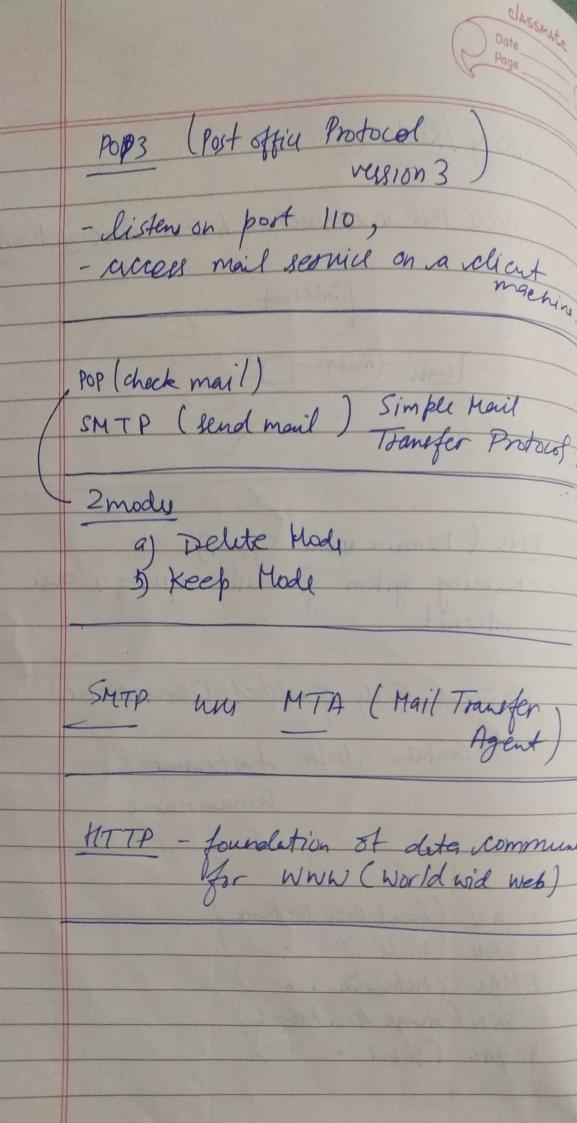
FG DN (Fully Pualified DomanName) Loutains both hostname & Domain name

1. LAN (Local Arex Network)

3. WAN (Wich 11 " 2. MAN (Methofolitan , n)

SAN (Storage Area Namon)

4. GAN (Globel u a)



MACUS & MARE Address are classmate

2 dits things.

Date
Page MAC (Media Access Control) Media Accea Control Lager of Network
Artificature IP (Internet Protocol)

unique 32 bit of addown of a node
un networke

145.10.34.3

[10010001 00001010 00001010 00000011] 8 x y = 32 bit To un Internet Servin Browider)

- proxy server NAT (Network Address Translation) Sub-netting - divide large network into Smaller networks - Reduce network traffic - Size of Rolling table. -> Secur network.

Date Page Directory Stouchuce) ADS (Active RAID Redundant Array of Inexpensive Disk by using multipe hard disk dring OSI (open System Interconnection) - transwork for Network design and operation. - Thogical layer Pecci A Application layer Sending App Wah Presentation Layer Session Layer Transport Layor Network Layer Data Link Layer Physical to

Protocoly

tile Transfer Portacol FTP Simple Mail Transfer Protocol SMTF Toansmission Control Protocol letnet Telephone Network hyper text transfer " Media Transfer " Secure file Transfer " Securi Socket Layer (TLS) Post office Protocol POP NTP 7 Newske Time " PPP Point to Point " NNTP Network News Toansfer Internet Message Access IMAP -

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Fo connect 2 devices both devices should have NIC (Network Interface Card)

(Registered Jack-45)

(Degistered Jack-45)

(Degistered Cable.

(2) Each NIC cand has a unique MAC address

6 bytes long (hexadecimal format

00-50-56-C0-00-01

(Wender ID)

(wender ID)

(organizationally | Network Integer

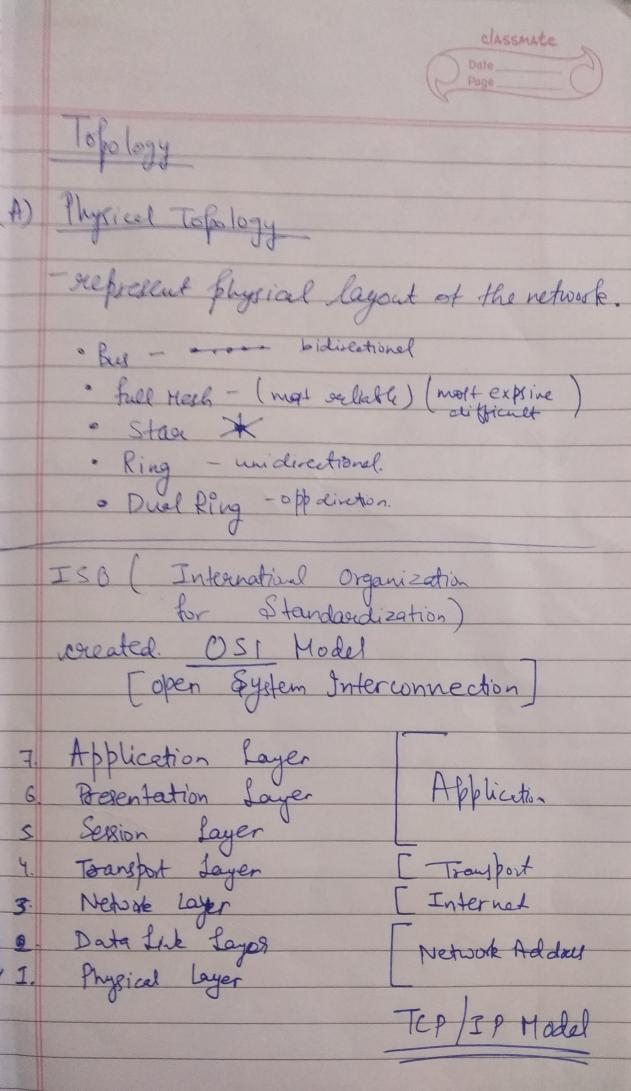
Unique Identifier | Controller Species

NIC also has IRV4 (Internet Protice

19 Addres - dange from 0 30255 172.16.254.1

10101100.00010000.11111110.00000

I bit = 8 byte



Classmate Date Page

Proxy Serves Server b/w Client & Internet.

Mail Server

Incoming
POP3 Pot 110
HAP Port 143
MTTP Pot 30

Outgory SHIP POST 4