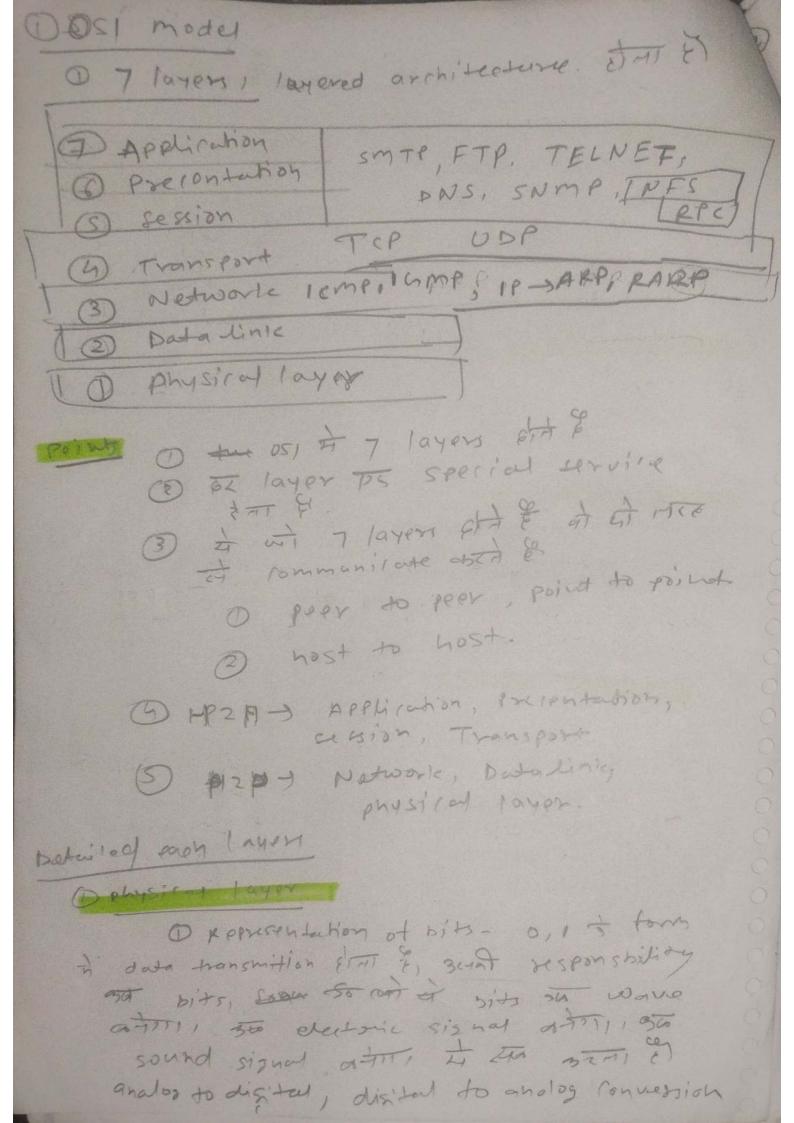
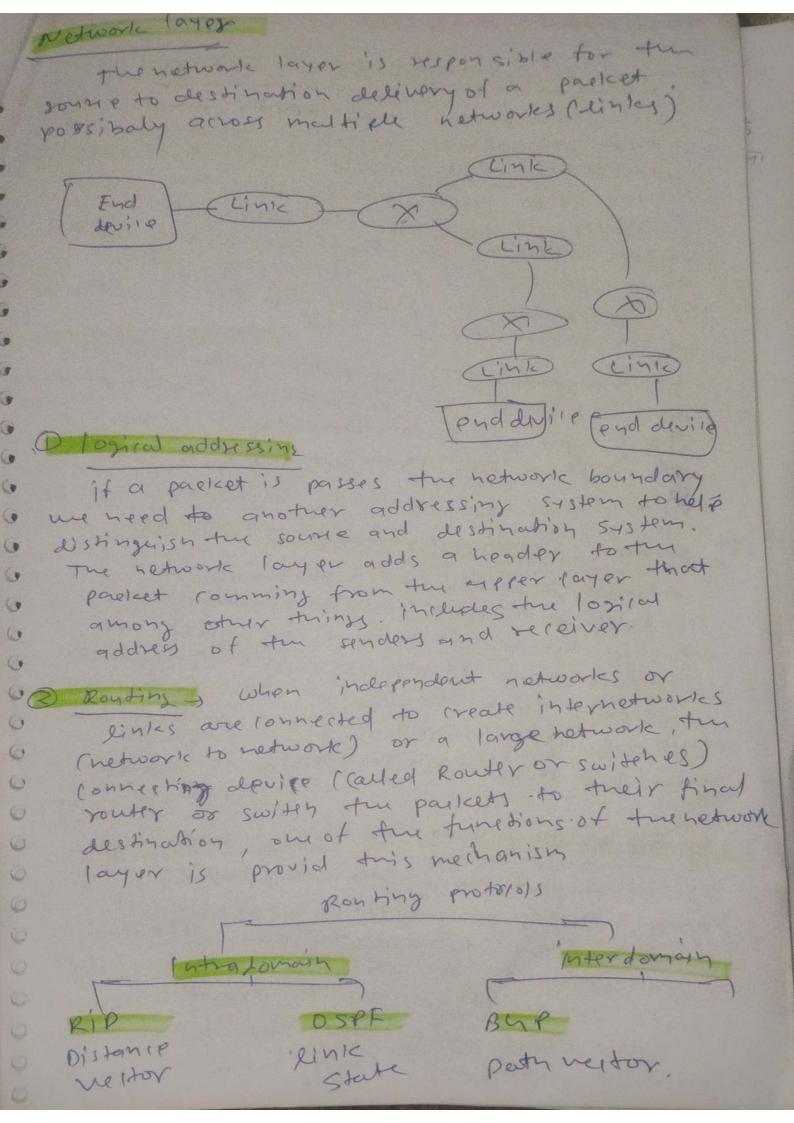
port vector Routing April catesomies of Neturne and closal Area network) is usally limited of few killometers of area 13 office, at pointedly own building Floor of 45HI 8 DAN (wide Arm Nedworld) O stographirally large area 3 The network in the entire state up loud Actopolitan Area Network (MAN) + D LAN STE WAN & PAN STEP STEP STATE 3 LAN & MAN & WAN example , The city, at networks. IT open system 175 32-12 st rommunicate 327 3 (Dalvegardless) standards tollow 377 \$1 In several @ Act & model & Osl reference mode, TEP practical model Dlayered aprilecture 1 SAG SATY layers ett ? 7 19425



de fine with &. pata rate - humber of bits send porh rabel &1 3 Th ATTAI data HUTTE of भी पाना है के लाज की रेपवला है। 3 line configuration of with soft devices to point of multipoint of a sone of the point of multipoint of a formal of the topologys, att to sone of the sone of 1 Transmission mode, half, ful, simple of manage state O framing , out all date at Partet N/W layer it my Tol & 3431 appropriate parts à divide stall framing stalling to Networks est 31 July - 2747, Puelet, frame, of MTU अमा ही कार के कराया होते नार है कि कार की कि का कार है। के कार कि कार की कार है। Thomas & physical adours, mac addres of add attain, with athernet of communication of OTF NIW & multiply SYSHEN BLL 51 STE STE STATE 248 654. 6 myte at max address from & 3 hyte 1 3 byte pecific oniginality cynique identification

001 3 614 ban - p3/p5/p1/p0 anilast 1) mulhirast (3) across control - whon two or more device are connected to the same link, data link layer protocols are necessary to determine whiry device has control over the link out any offmer muliple- access protocol) Him channe li rahigh Controlled Kandom access proto(0) acres proto(0) proto(0) ALOHA FOMA freservation - CSMA TOMA L polling - CSMA/10 I token passing (DMA - CSMA/CA @ Flow control > data absorbing nate of Receiver is less tran the gate of sonder sending dodg than Data link layer imposes
a flow lorthol mechanism to avoid overwhelming for receiver (5) Error control + data linic layer addy Deliability to the physical layer by adding mechanisms to detect and transmit damased or 10st frames, 1+ also uses a merhanism to relignize englicate frames. Error control Is normally aprilled to rought a trailed addled to the and of the frame. E 200 - 1 outro) error detection error connection Hamming - Inthonet checksum (odi. 1 Cy Mic Redundat Merle



1 service point addressing prort address)

The transport layer header must include a type of address (alled a service point address) the network layer gets each parted fo the cornect layer gets the computer. The transport layer gets on entire message to the cornect process on that computer. The transport layer is that computer. The transport layer is the responsible for process to process delinery of the endire message.

AG computer 3212 computer in communicate still or solvers in and proless in communicate still or single of any or of all of all of a communicate still of any or of a communicate still of any or of a communicate still of any or of a composite of any or of a communicate of a comm

(8) segment segmen tation and reasembaly

A missage is divided into transmitted segments, with each segment (outaining 9 segments, with each segment (outaining 9 segmence humber. These number enable tun sequence humber to ressemble the message. transport layor to ressemble the message. (overetally aport daining at the destination and to imentify and surplance parelects, that and to imentify and surplance parelects. that are lost in transmissions.

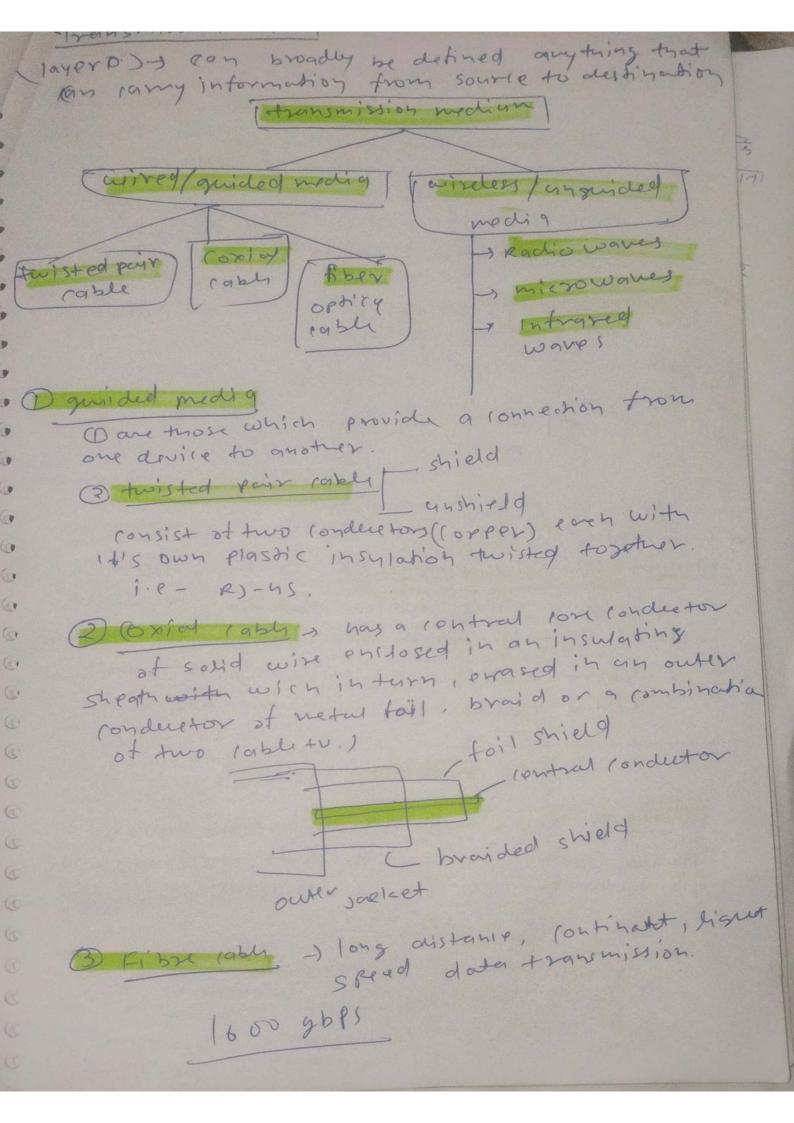
(3) connection control (10) voo (m) ture (m)

the transport layor can be either N/W I connectionless or connection oriented. A connection less transport layer the treats each segment as an independent packet and delive it to the transport layer at the destination machine. A connection oriented transport layer oriented transport layer makes a

of sonnection with the transport layer ast fue destination marchine first before delirering the parelects, after all the date are transfermed; the Konnection is terminated DELOW control > data link, layer tun transport layer is responsible for flow control, However, flow control at this layer is performed end to end rather than across a single link. Error (ontro) -> some as dataliste layer here, prorwill check profess to profess, natur fran a single almss Single Link. 6 D'the session layer is the network digloger controller. It establishes, maintains, and session layer 6 Synchronizes fue interaction among formunitating systems. responsibilities the session layer allows two D dialog (ontrol) system to enter into adialog It allows the communication between two processes to falce place in extrer half duplex 3 synchronizations: the session layer allows a process to add theek points, or Synchronization point, to a stream of dates. presentation layer Destendant of the processes in the mation system are wretly exchanging into mation than the strings tourser.

and so on The information must be chansed to big strems before being transmitted, become. different O Jansmases of HELIAT fine ps 32th of 1960 anderstandable tormate & change of and of 1960 Ofnoyphon of plain text of either ciphor onvent ascar, ripher text of array plain tent it convent son it to pressentation 3 pompression > Dors compression reduces the number of bid contained in the information Duta compression become particulary important in the transmission of multimating such as text, andio 4. vidro. · Application layer enables tu user, whether Application haman or software, to access the network . It provides user interferes and support for services such as deetronic mail, xmoti file acress and transfer, shared dotabase management and other types of distributed information services. Serviner D Network virtual terminal -) 3 File transfer, arrest and management. 3 mail services (studymon usin)

3 Diretory services (4 duture)



t. (1) ground proposation (Radio waves) a wowes travel through lower portion of portue atmosphere husging the earth they are amount of power. amount of power. Blow frequency, and large wave longth (3) short range & power sound for wind & I.P 300 9H2 -400 TH2 3) line of signt proposertion - very high frequency singles transmitted in straight lines directally from ate antennato antenna a) short rouge, like will tary yet, walleytalley, one-way- pommunication guiteling switching , is a teennique by with which nodes (ontro) or switch doing to transmit it between specific points on a network switch, ng partet. circuit switching switching virtual Duteggram

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@ path seserve start of advantage of all disturbance of FUTT Co Ball ray not photo plant p dis of life asers ase not so to to and at a sure of the stand of section of the stand of the section of the sec o st MILE St cirtait switching 1841 and wante time & base or mix frequency & base or.

I time to base or mix frequency & base or.

Hereve & particular time His arture form > Eg limited frequenty saturd for sereine (2) packet switching 1 The main advantus at circuit advantase! switching istnot a committed transmission channel is established between the computers which sim & ger suggested destarate. (3) in caircuit switching there is no delay indutes flow because of the dedicated transmission No header is regjud Recording of data connot happey Disadvantasy of DI+ has the following distiduan tases D take long sime to establish connection more band with is required is setting up of didicated channely outdated, not used now a days

porelecto sultening Date dedicated path of A Horr & Department path in order it for it Datogran return (), destination to ognice 2 25 mg original form arranse of with & using header Ultrady hetworks Derri path of dedicated forthe of and page of cottal header