Unit - 2 : TAIL AUTHAP 15 SLD CAMER do Trifferent mail ACESS ProtocoligaT (1 MTCD is also 2 known Tras transmission control protocol entep connections is byte for occurring e-mail mostages Stream of Top does not supports multicas and broad casting and flow Control 21 GAMER a Top does not supports half duplex ATCP Supports full duplex Commounted Drawnization ATCP is highly reliable. A TCP packet is ubsalled Segment nortosinos vo mon a pro net Instruories Support group

of TCP header contains Six Hag sidnosting one UROS ACR, PSH, RST, SYN, FIN 9000 * A Stream of 8-bit bytes are susadimentor the connenction between two applications. 9000 or TCP and Uplp Usestia network layer tomos trogge maintains da bea on header and data. north solgub TCP segment format: 年 いロド Top reader - cp data TCP Connections Establishment: CLOSED - No active morped of 1808U LISTEN - Spriver is waiting for Incoming call SYN RCVD - A Connection Reguest Aus recorved SYN SENT - A connection Request has

contoirs A TCP handon. 2) UDP: XUDP is Connectionless Both 13 Lords strad connection 2 STOP \$ moorts no Stream aupports bradeasting not provide flow wIt ordoes and error control control Arousty Charleson & UDP adoes not Supports full duplex transmission is Unreliable suboat & ODP packet is the called user & UDP datagram. whom subout ox upp is also known as Datagram Protocol. TCP is weed to built EVAL ROVE . A Connection 12 Type Las LEOSY

The same of the sa

3) congestion controlingnos messon Congestion:

Awhen too many packets Yushing

Awhen or a part, ob network

to a node or a part, ob network

to network performance may

the network situation is

degrades and this situation called congestion beneggion good of order the premary good of order confer to ensure the retwork operates efficiently Congestion Control: ax congestion control is a process of maintaining the number packets in a network below a Cartain level at which the degrades. was Congestion Control algorithms and protocols are used to vicontrol the occurance of congest 10122mle A -

/ x congestron occurs due user traffic in network high gridect about of congestion control refers to techniques and mechanisms on exthere prevent congestion that can happens or after before hap pered ofte pros bellos has loop wroming control Congestion (noite aprio) Open Loopes to love myot soll Back presson · - Retransimstion Policy decinate 1 orthowindow policy 2001 5 thoke Packet - Achnowldgment policy _ Implicit signal Diseard Policy | Explicit signal - Admission

1001

general open 100p congestion used for prevention congestion dosade Loopis used for removal and closed Loop congestion control : who is applied to prevent congestion before it is applied to happens. Can la destination de Source i) Retransinission policy: policy unavailable unavoidable sender feels that a Send packet TS 108 FOOT corrupted. the packet reads to be wetransmitted. This process tois called retransimission policy. increase of congestron in the network

window Policy.

Window Policy.

Window & Policy at

Window & Congress is on Sender: imay also affect congestion
Sender: imay also affect good good solvery

Selectively resects the parted using windows method for congestion controling Acknowledgement Policy: MACKINOWledgement policy imposed by receiver. It may affects a congestion ?? or If the versiver de does nots - acknowledge on every partent. it may slow down the Sender. Dis Carding policy; and batquired à Congestion Can be controlled by the routers and at time may not harm the integrity of the her transimusion

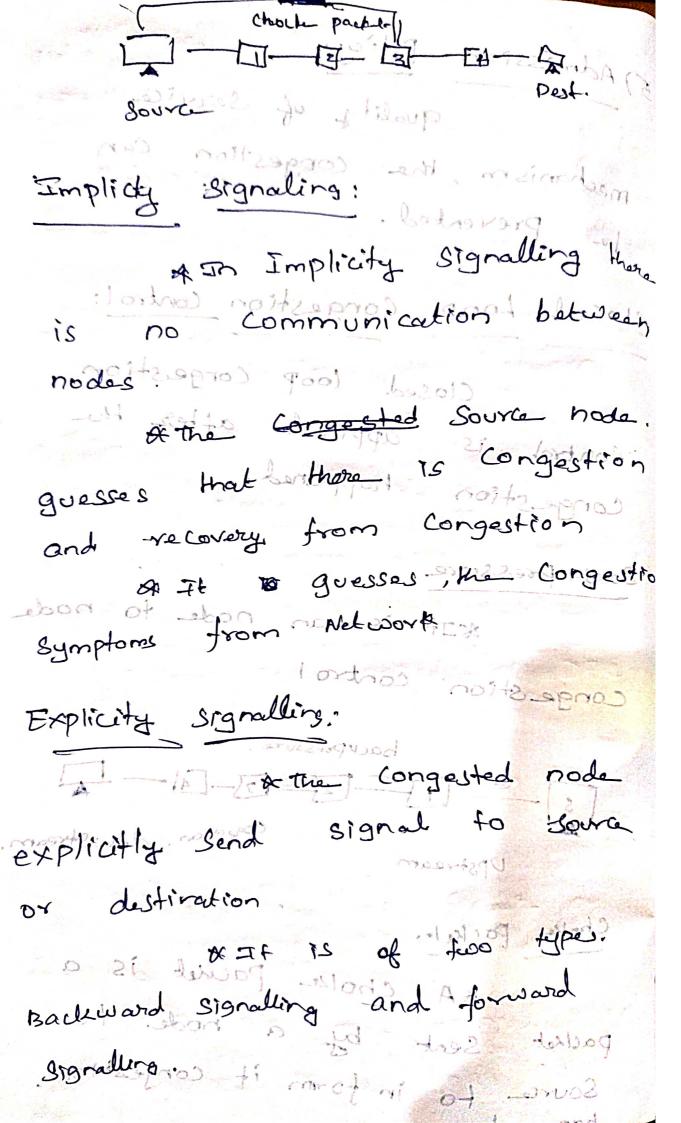
5) Admission policy: quality of Service - mechanism, the congestion can - mer prevented.

prevented.

prevented.

prevented.

prevented. CLosed Loop Congestion Control: Closed loop Congestion applied after the · Control 0015 21 happened don't 202000 congestion mark wavelor too Back pressure Lozzoup WIF rois to mode to node congestion control parthessare Explicit 2 2 2 4 of Longie Cogestion, downstream. nother while to Joseph A Chole Packet is a Choke Packet. packet Sent by a node to to so Source to in form it congestion. happened.



congestion Avoidance.

Congestion avoidance is

a prevention mechanism while

congestion control is a recovery

medanism.

DEC bit:

experiency congestion bit

OF DECBIT was developed by DNA C Digital Network Architectore).

DECENT SPILL the responsibilty between routers and end hosts

Control.

control.

A According to the packet

avrival queue length is calculated

calculated by (last bust + idle) pariod
-+ current busy Period.

Asource Machine adjust the packet flow rate.

Congestion Window.

RED.

RED Stands for Random
Early Detection.

to The main of RED 15 to

Provide Congestion Control at the

router.

BIL 2014 LOS LOS 200+100

well with TCP.

dropping packets.

of packets are dropped, when the average queve length increases.