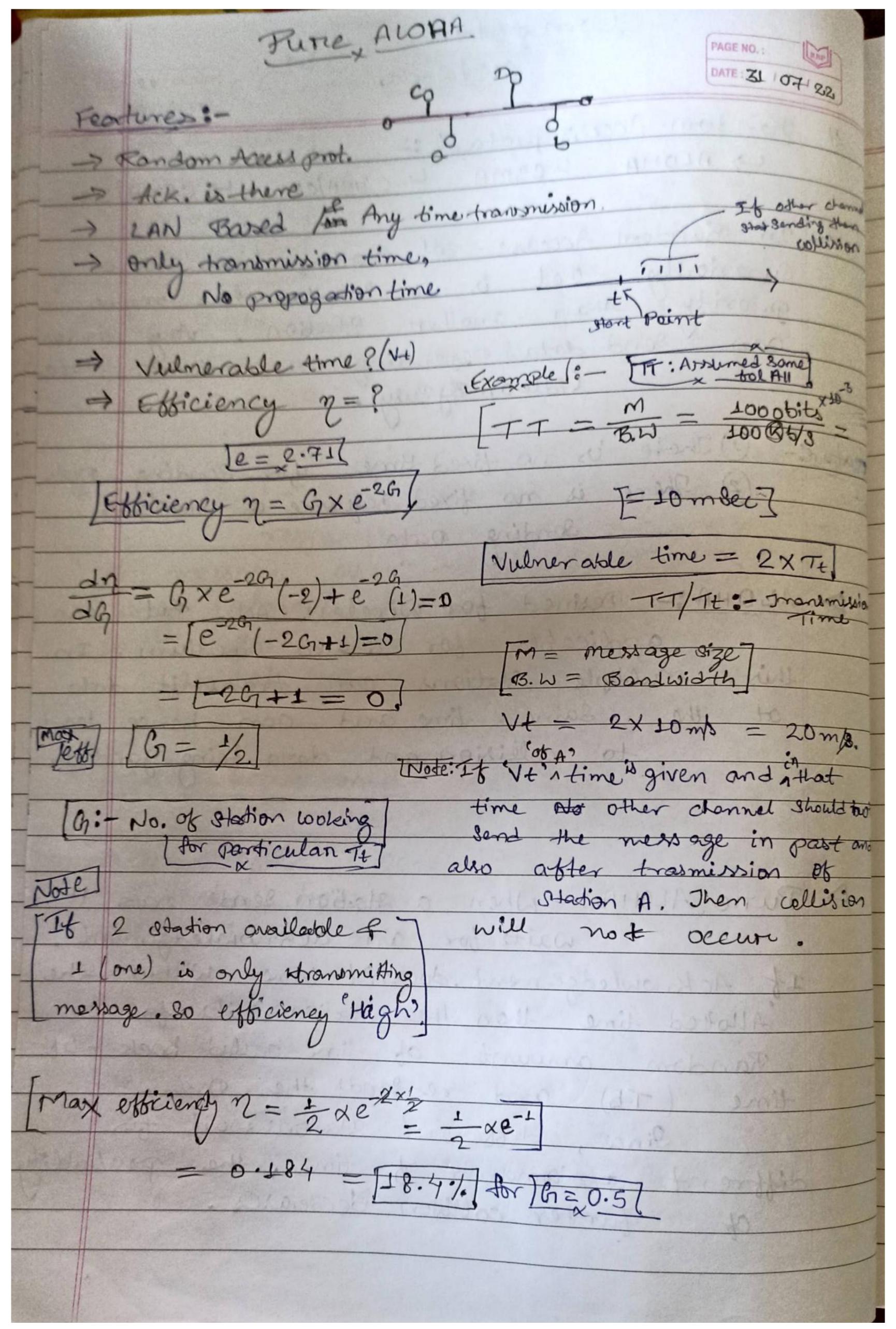
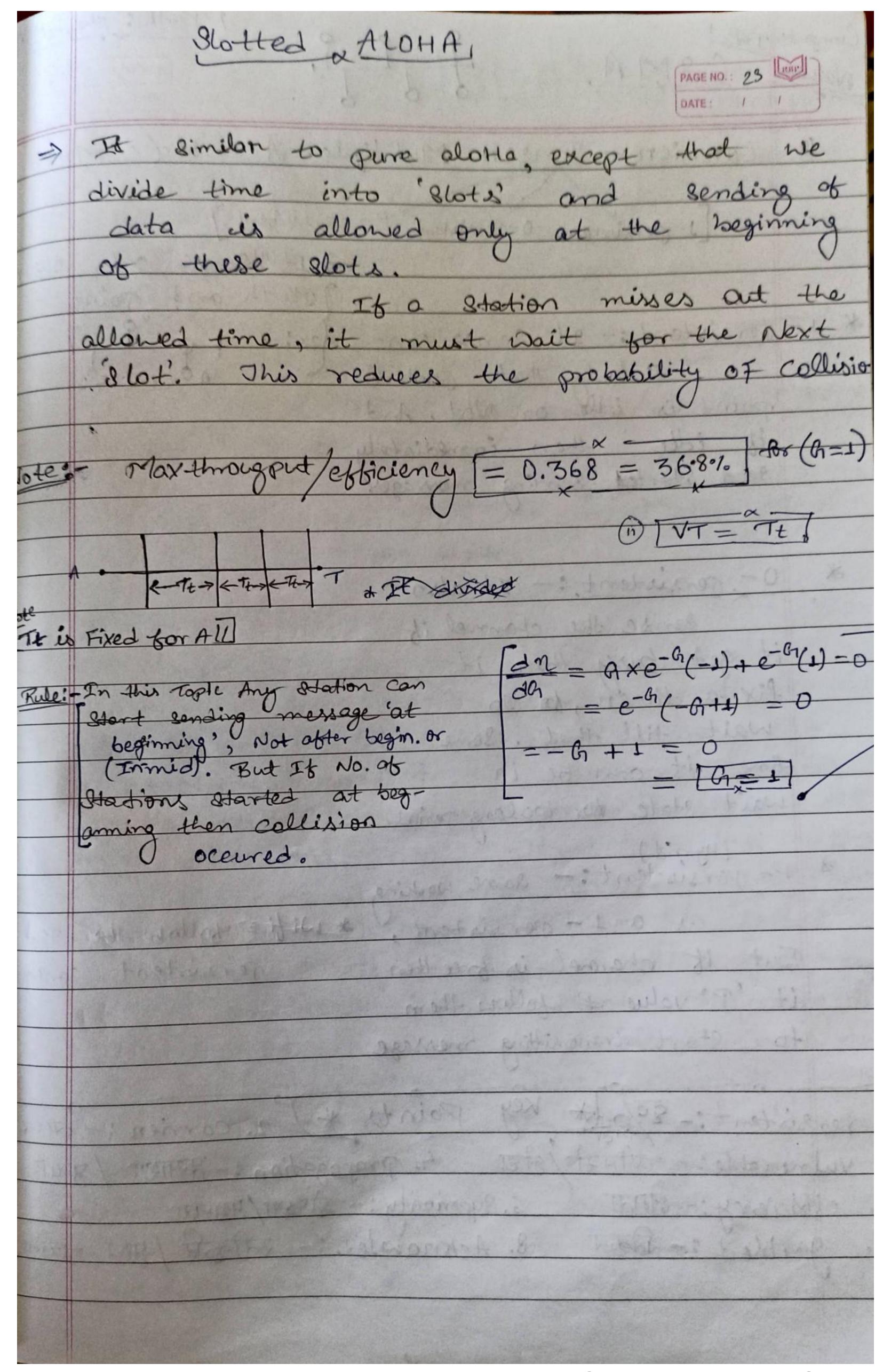
3- roint Networkling PAGE NO. : Multiple Access proton \* Idea and Peolity Chamolination · onive controlled Random . bemosty e persistence Access protocol Access prot. Protocol \* The Data link logen is responsible for transmission of sato between two modes. Function . Data link control . Multiple Access control \* Data link - The Data link control is responsible for celiable trousmission message over transmission channel by using techniques like braming, error control flow condrol. For parta link control "neten to stop and wait ARQ". Beek \* [multiple Access control] - It there is a dedicated link 6/w the sender and the receiver then pata link control layer is sufficient, however it there is not dedicated link present then multiple Station can access the channel simultaneously. Hence Multiple Access protocel required to decrease collision and avoid cross Ex: It Teacher asked a question of all student lots Harted Answering Simulteneously so then Data (Avio to is overlapped and collision occurred. So, Jeacher control the students to 'Answer one at atime'

## Computeri Network, DATE: 34/ 07/ # Random Access protocol:-4 ALDHA 4 COMA LA COMA/CD LA COMÁ/CA => In Random Access: - all stations have some Superiority that is no station has more griority than another station. Any station can send data sepending on medium's state (idle on By Busy). wei- (1) There is no fixed time for sending Date. 2) There is no fixed sequence of stations Sending pata there and direct the ext > ALDHA: - Desined for Wireless LAN, But also applicable for shared medium. In this, multiple stations can transmit data at the same time and can hence tead to collision and dota being garbled. section remains to the EPLANDED PROPERTY Pune ALOHA: - When a station sends parta it waits for an acknowledgement. If Acknowledgement. doesn't come within the Allotted time then the station waits for a Random amount of time called back - oft time (Tb) and re-sends the sata. Since, different stations wait for different sota amount of time, the probablish further collision decreases.





Compute MAP CSMA, Cannien - Senson Multiple Access (C3MA) [1-persistent 0-persistent P-persistent.] JEAH and point. 1- persistent: - It sense con- [ex: - + 8 sense 2 tiniosly that path & point is idle or Not. And if ide then immediately sand start sending mensage! 0- persistent: - It also sende the dannel it it get busy than it fix a timen, for Jo wait till that. Some time it can be in wait state for toolong period. P- persistent: - Same working \* Wifi = follow the Pas a 1 - persistent, But it channel is free then Persistent concept. it 'P' value & follow them to start transmitting mersage Key Points \* 2. carrier: - otter 3. vulnerable: - udd st / gter 4. propogostion: - ATHIEN / Hall 5. efficiency: - ETAAT 6. Superiority: - क्रेडिया/मधानता 7. garbled: - ldæd 8. Acknowled: - स्वीकृति / प्राप्ति स्यूनामा

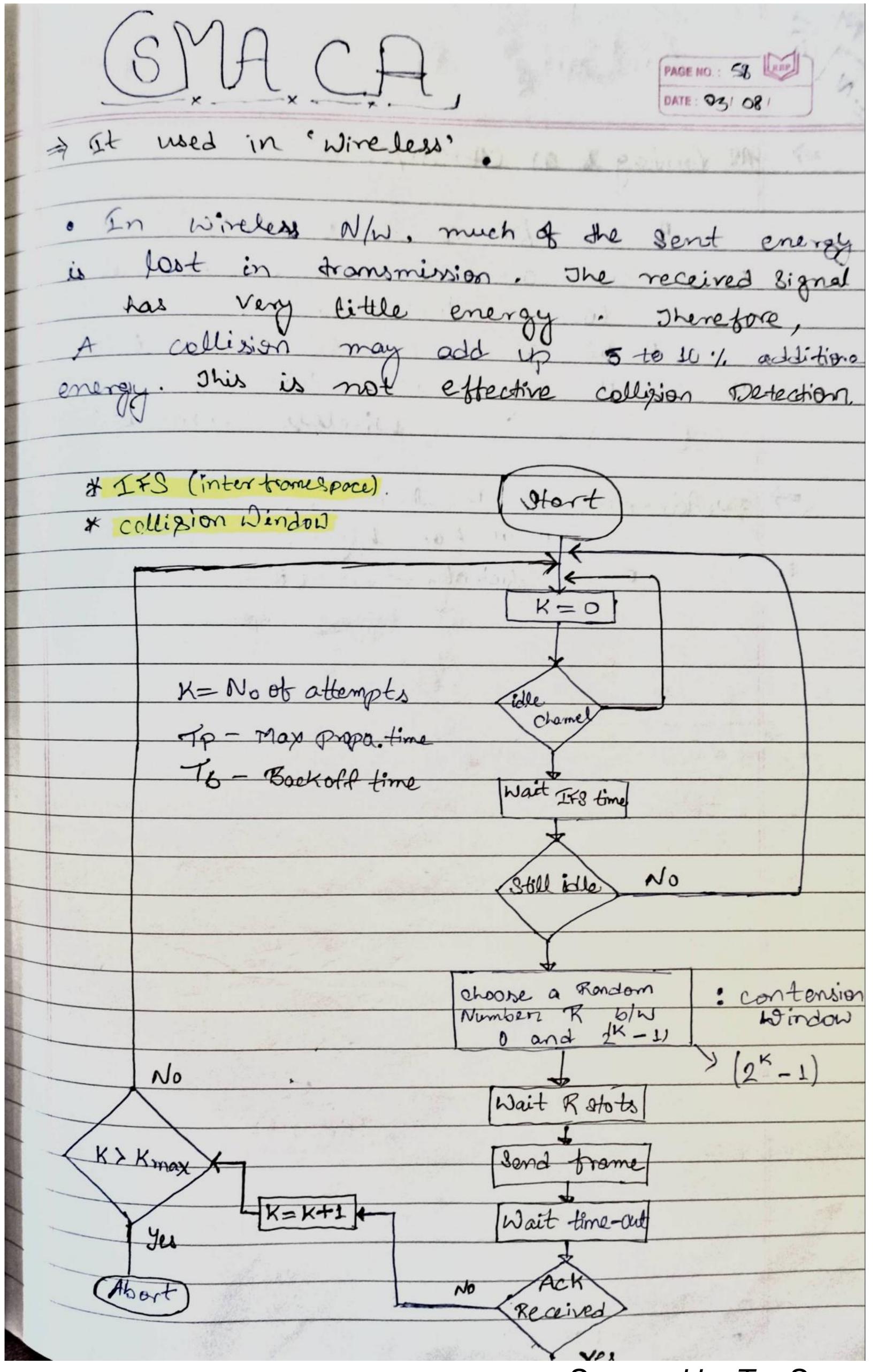
CSMA/CD (were medium).  PAGE NO.: 57-139  DATE:
* Cannier Senson Multiple Access/Collision Detection
5 Three Emergy Devel:-
$\widehat{\mathbf{D}} \in \mathbb{Z}$
* No Ack. is There &
A Concession and the second se
2:00 12:00 12:00 12:00 12:00
1200 12455 — Collied Date
*In above fig. A is Started trasmission at 12:00.
but 'B' storted at 12:59 before getting A's Dato. I'do, this is "Norst case" for A because
A got collied pata at 2:00 @ and if A is
frommitting Data at 2:00 than get that their
Data collided but 'A' is idle then they will
TT > 2 * PD TT: Tronsmission Time
IMP. Po: Propogation polay
BW: Banth Width
efficiency [7 = 1+6.44a] [TT = 1=7
$a = \frac{Po}{4\pi}$

CRMA/CD wed in Ethernet/LAN Technology.

\* Bus Topology.

\* Not used in 3tor Topo. or point to pa = Efficiency conclusion:-1. If distance 1 increases, the efficiency 2. It is not suitable for longdistance N/W like WAN. 3. If Length of packet is bigger, the Efficiency of CSMA also increase?

Bux Max limit for L. is 1300 Bytes.



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