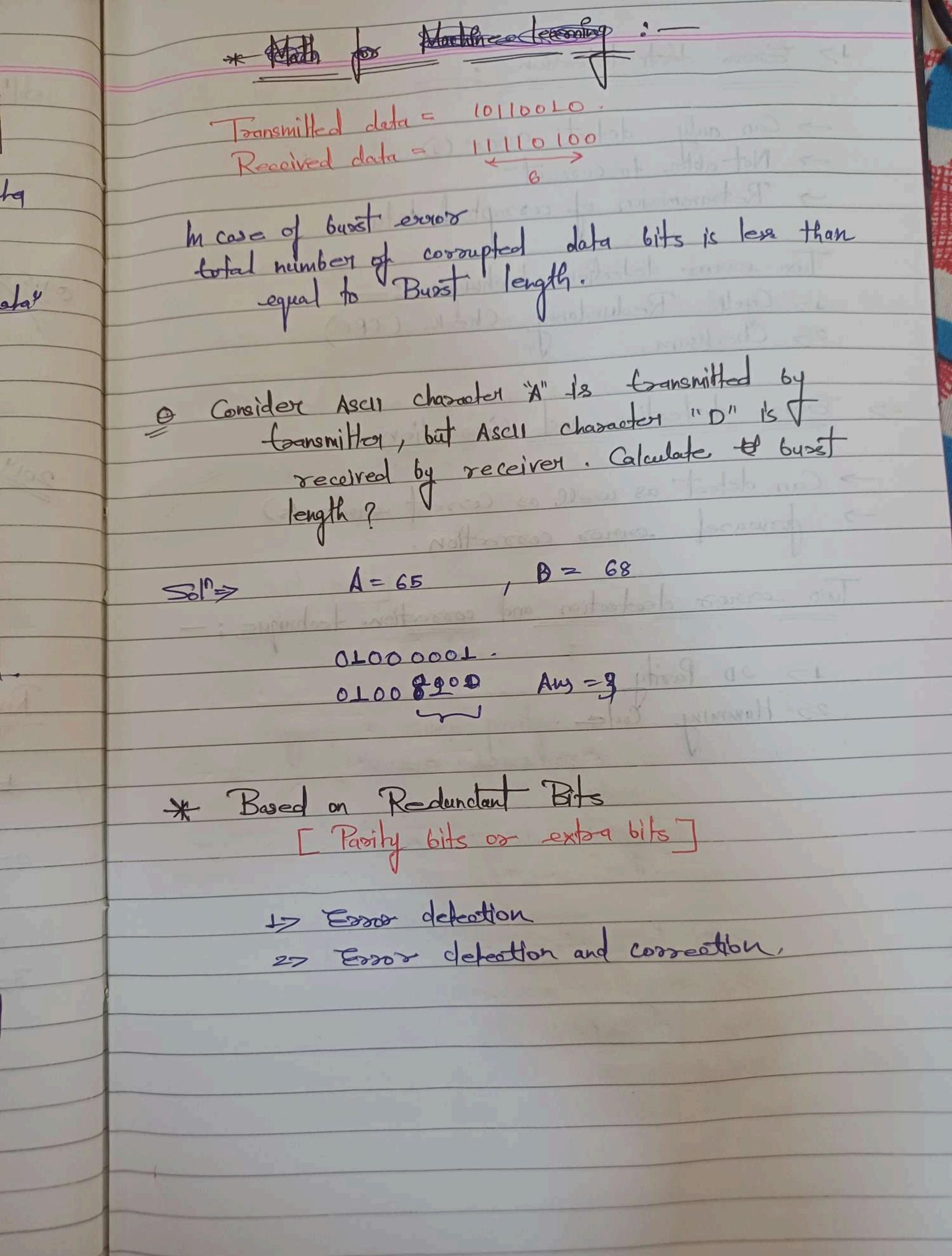
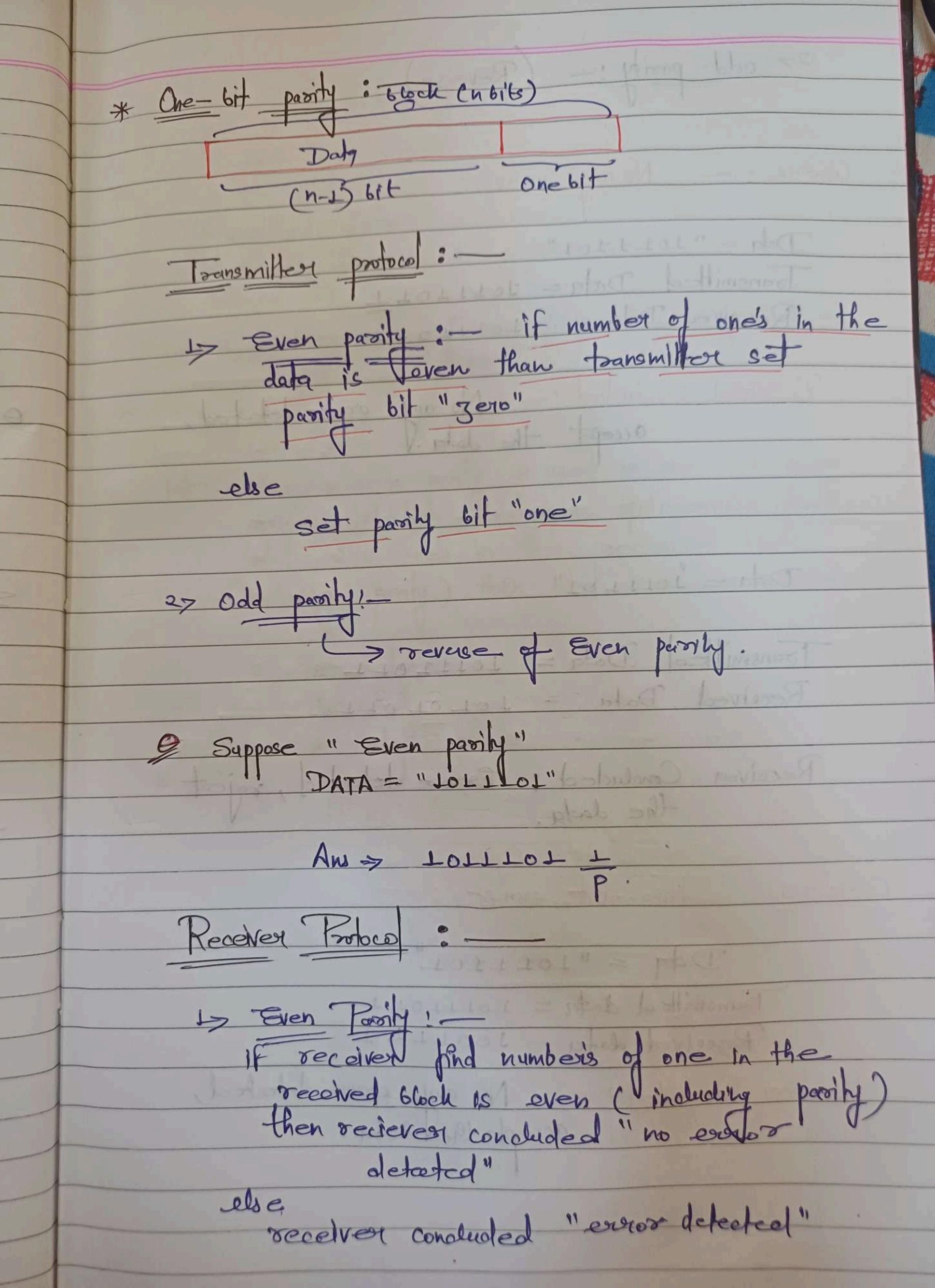
Essos Conto Lecture > 1 Receiver Sender Received data Tsansmitted data (10110010) 10110010. If Received data is not same as "Transmitted data"
then "chance of error". Corrupted data [flipped data bits] 27 Bust ervor. (Multiple bit ervor) Jy Single bit evous :_____ Only One bit in the received data has changed Transmitted data = LOLLOOLO Receiver data = LOIILO LI 2> Buss 10000 :-More than one I two or more I bit in the received data have changed. Bust length: length from first cossupted bit [Anolusive]

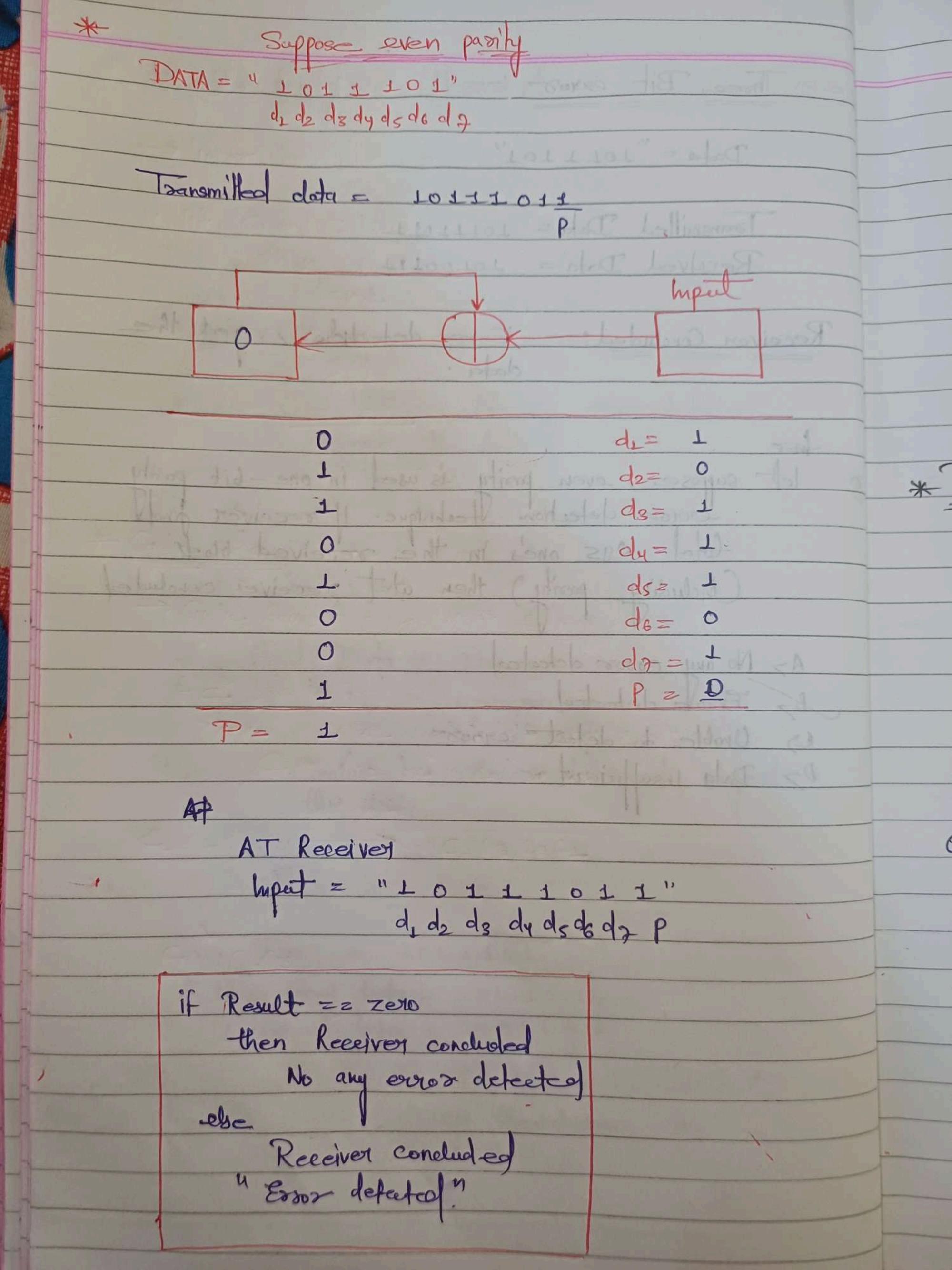


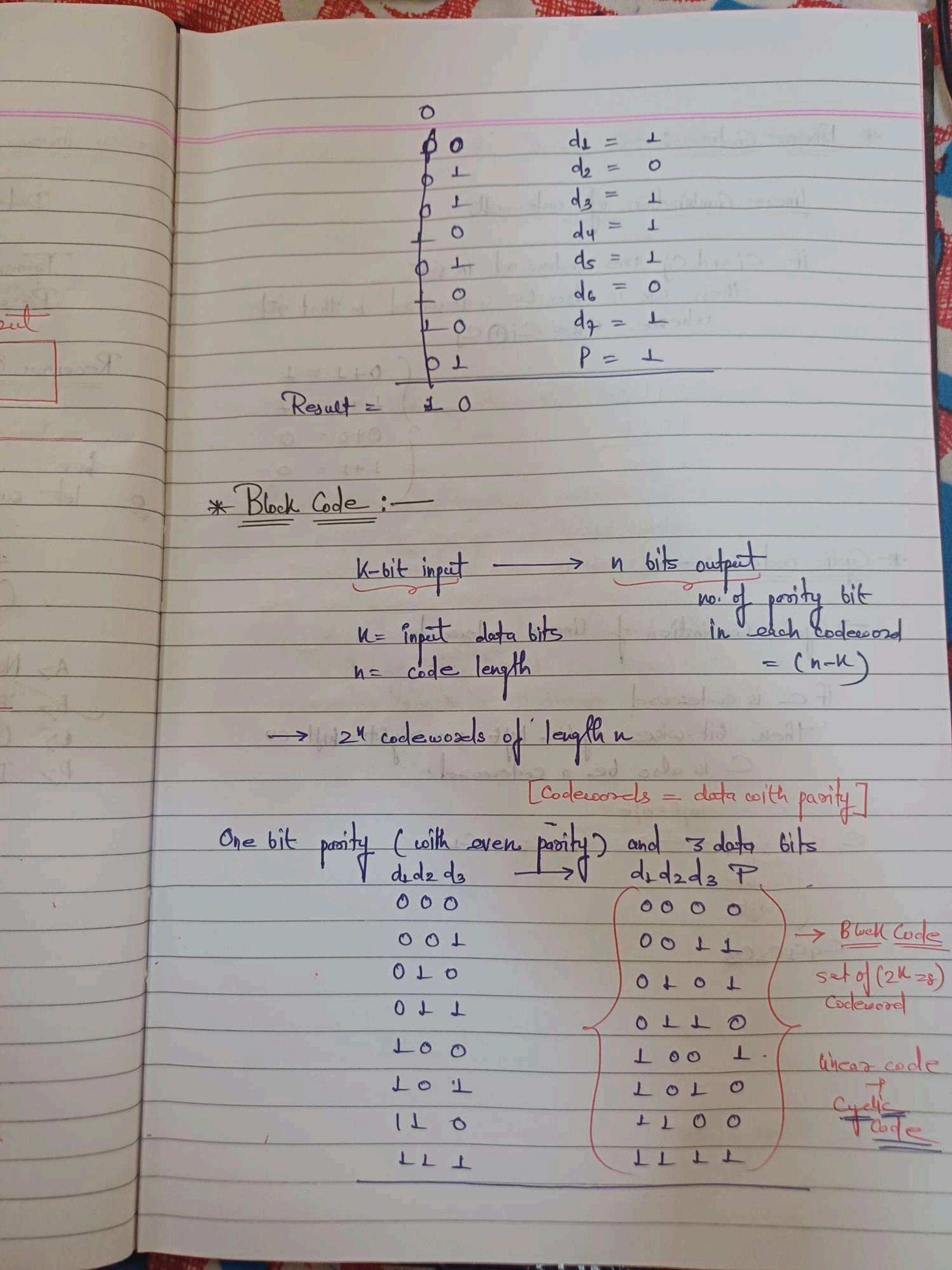
1> Error décht détection: -> Can only defeat ever (s) -> Not able to correct -> Retransmission of corrupted data. 100 evoros defection technique: -25 Checksum. Check (CRC) 2> Evoron detection and Correction: --> Can détect as well as correct ervor (s) Two services destaction and correction technique: 25 Hamming Code.



27 odd parity! - (Reverse) Case-1: No any evolos Data = " 101 1101" Transmitted Data = Joseph 1 Received Data = LOLLLOLL Received Concluded! - No any erous detected, accept the data. Case-2 One-bit wood 1-Dota = "LOLLLOL" Toansmitted Data = LOLLIOLL Received Data = LOLOLOLL. Receiver Concluded: Excres detected, reject
the data. Cose-3 Two-bit evolor: :-Dotq = "LOTITOL" Fransmitted data = 10111011. Received data = 100111 to any exocor detected

Cose 71 Three Bit everor !-Data = "LOL I LOL" Transmitted Data = LOLLLOLL. Received Data = 10100111. Receiver Concluded: - Error detections, reject the suppose, even parity is used in one—bit parity
everous detection thechnique. I received should
lotal 295 ones in the received block (including parily) then what receiver concluded A> No any error detected By Error detected 4) Unable to detect error Do Data insufficient.





* Linear Coole: linear Combination of codecoods. if Ciand Ci are codewood in set
then CK is also be codewood in that set where ch= CiOCj 0+1=1 1-to = 1 0+0 = 0 L+L = 0 . * Cyclic code :--> Cyclic Combination of linear coolewoods if a is codercord then bit-wise cyclic left or right shift on C. Is also be a coderosel. left shift. C1 C2 C3 Cey > C2 C3 C4C1

Right

Shift C491C2C3

