Name: Gr. Nithres Regno: 19BC80012 Course: Computos Networks Define CSMA: At (SMA (corrier sense Multiple Access) is a network protocol for coviertransmission that operatos in the medium Access Control (MAC) At It benses or listens whether the Shared charnel for tarsins ssion is busy or not, and transmits if the channel is not busy, Using CMSP protocols, more than On Users or nodes send and receive data through a shared medicin that may be single couble or optical Fiber connecting multiple nodes of a Portion of Wireless Spectrum.

Working Principle:-12 When a station has frames to transmit, it attempts to detect Presence of the corrier Signal from the other nods wonne dead to the shared Channel. 1> If a carrier signal if detected it implies that a transmission is in Progress. 1> The Station words till the orgaing transission executes to completion round then initiates its own transmission regional bond of logical, ed 1) Grenerally transmission by the node rare received by all other noder cornected to the Channel. Care December 19th July 19

Algorith for ESMA: Algorith fos CSMA are Hon persistant 191-lessistant.

Lo 2-persistant Explanation: Index 1999 23011011111111111 channel is not free then want for random amount of time then sense. the channel, it free ther send data. 11. Transmit if medium is idle Otherwis go to 2 2's wail for grandom amount of time and repeat(1) it medium is 1- persostant Continuosly sense the channel I when it serethat the charpel is

free, it transmit the data. liter of medium is idle transmit , other turise on too turise go to 2. 2.7 Would for random ormant of time.

and repeat (1) if medium is busy. 2- Persistant camp. "I With Probability "p" the station sends 2:> With Probability 1-P, station woulds for the beginning of the next time slot and check the line (i) If lines is idle 90 to1 (ii) If line is busy, it out our Collision has occurred and uses the back off algorithm.

2) IPVIL Address of class A: -> IPV4 address oure 32 hit numbers that some typically displayed in dotted decimal notation. A 32 bit address contain 2 Primay it Networt Prefix. ii) The host number. # IPVH Addressing Bystern is divided into 5 classes of IP Address. All the t classes one identified by the 1st Octet of IP Address. 1st octet and octet 3doctet 4th octet 192.168 .01 no. of networks & the no. of host por class car he derived by this formula

no. of networks = 2 network_bits.

no. of Hosts/ = 2 host bits-2

network

When calculating hosts IP address, 2 IP address, 2 IP address are decreased because they can't be rassigned to hosts, i.e the first IP of a network not of and the last IP: > Resowed yor Broad cast IP.

Class A Address.

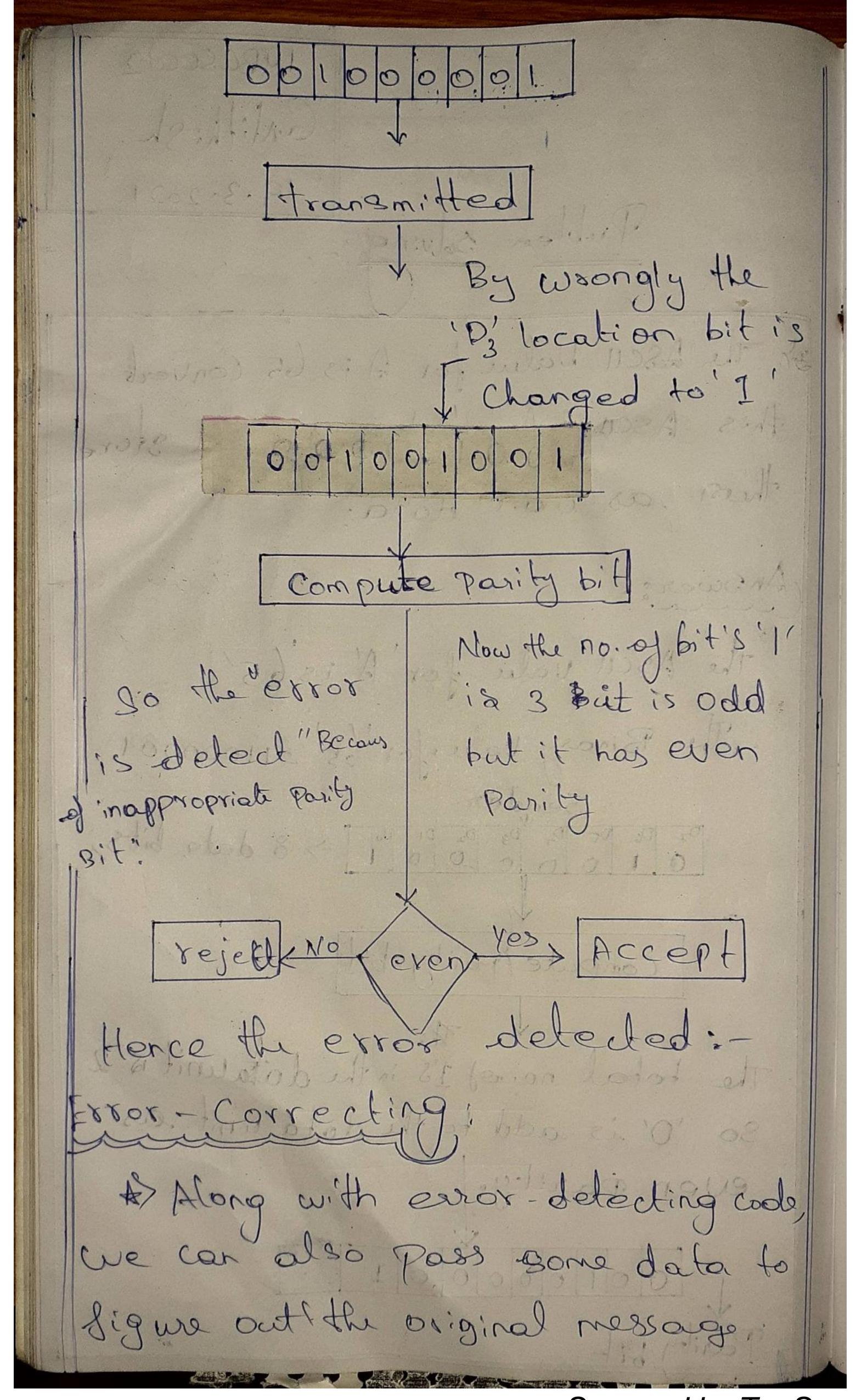
the first bit of the dirst octet is always et to O (zero). Thus first octet ranges from 1-127: e.

00000001-011111

Class A addresses only ideclude 19 Starting from 1. xx. x to 126. x. xx. x. only. The IP rang 127. x. x. x is deemed for loop back to diddiese

It The ASCII Walnu for A is 65 Convert this Ascii value to binary and store there as 8 d:t data. Answers. かでのはいつからう) The Ascu value for A'is 65' The Binary value for 65 = 110000001 Compute Parity bit the total no. of 1's in the data unit is 2 So 'O' is add to the data unit as ever parity. 00100001

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from the conscipt message that we received! 1) In essor-Correcting, Parity Ceck has a simple way to detect expors along with a sophisticated mechanism to determin the corrupt bit tocation. Morce the Corrupt bit restocated it's Value: s reverted (from 0 to 1 or 1 too) to god the briginal fressage. sby the use of essor-correcting code it detect the exact location of the Corrupt bits here as Dz Chang it '1' to '0 00000 Posity 8 data bits

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