Checksum = Check + sum

senden side > checksum eneation.

Receiven side > eheeksum volidation.

Senden side

- 1 Break the original message into k(41816,32-4) number of blocks with n bits in each block. [1.e] 20 bits in 4 blocks = 5 bit each blocks).
- (2) sum all the 'k' data blocks.
- 3 Add the early to the sum, if any, (one's complement
- Do 1'st complement to the sum = ehecksum 4 Leheeksum also be n bits.

Exemple: 100110011110001000100100.10000200 (potr.)

1's complement: 11011010

· eheeksum : 11011010

Receiver side:

1 collect all the data blocks including the checksum

@ sum all the detablocks and checksum

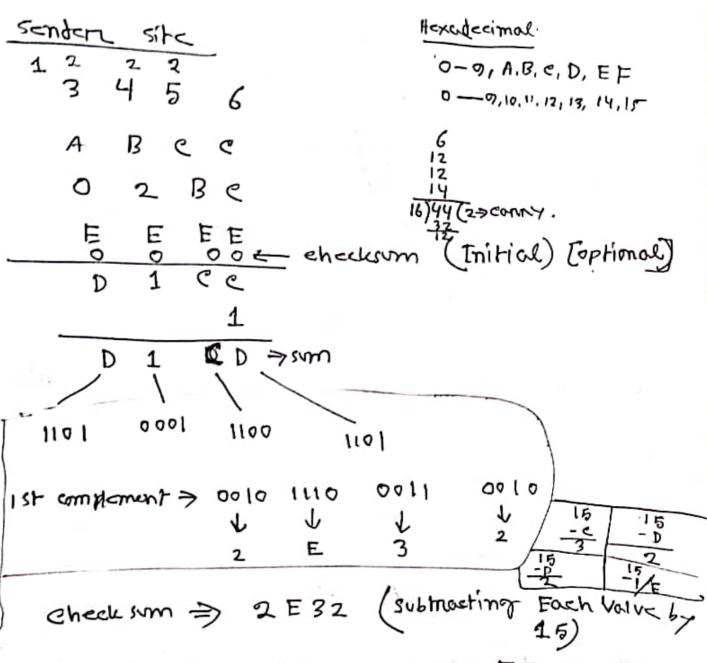
1) Add the convery to the sum, if any. (one's complement to the sum; checksum

'If the enecksom is o, this means that the data is not commupted. (Accepted)

1-0011-001-111-00010-001001 10011001 111 000 10 10 11111111

· 1st complement > 0000000 (checksum) (Accepted) 1. 1211 124

(straight 16 bit) Interest checking + Book-300 Pose A senter needs to send the four data items 3456, ABCC, O2BC, and EFFE



Data world: 3456, ABCC, OZBC, FEEE, 2F32

DICD

2 E 3 2

FFFF

At the neceiver site

D - C)

3456

ABCC

02BC

FEFE

2 E32

FFFF

1st complement; coop ooo ooo 5000 (Subtracting Each value by 15)

Receiver cheekrum: 0000

Q-1: Find the enclosur at the senden site.

9-2: Find the checksum out the receiver sik.

17-3; send Mr. x send Message _ _ - -.

In the neceiver sike endeurone Accepted/

Rejected.

