# SSN COLLEGE OF ENGINEERING

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## UCS 1501 computer Networks

#### Assignment

1. Given 3 CDMA USERS AIBIC (Data bit 0-) -1) Data bit = 0 chip sequence for A, B, C A = -1 -1 -1 +1 -1 +1 B = -1 -1 +1 -1 +1 -1 -1 C= -1 +1 -1 +1 +1 -1 -1 pala pata -1 d2 Station 2 [+1-1-1-1-1-1+] Station Data +3+1+1-1-3-1-1+1 common channel. d3.c3 [+1-1-1-1-1+1] -1 d3 Station 3 Data

common channel:

[+3 +1 +1 -1 -3 -1 -1 +1]

Receiver side:

A's chip sequence  $C_1 = [-1 - 1 - 1 + 1 + 1 - 1 + 1 + 1]$ 

common channel x c1

=>[+3+1+1-1-1-1][-1-1-1+1+1-1+1+1]

= -11 +1 +V =/ +3/3 = +V TOtal Station = 0.0

D=)-1 +X& It is the data bit of A. So, It will not be be transmitted.

B's chip sequence, C2 = [-1-11-111-1]common channel x C2.

= 0 = 1 - 1 Itis not the data bit of B. So Th

won't be transmitted.

c's chip sequence c3 = [-1+1-1+1+1+1-1-1] common channel x cg

=) [+3+1+1-1-3-1-141][-1+1+1+1+1-1-1]

=> [-3+8-3+8+8+8-8-8-13-1+X+X+X-X-X +8-3-3-3-3-3+3+3+1-1+1-1-1-1-1 

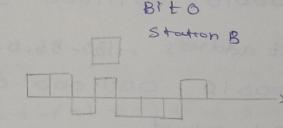
0=>-1 = 10 It is the data bit of c. so it wilhothe fransmitted stations. A and care

Bit -1 & & wieeach one end.

Digital Signal created by for 3 Stations in CDMA.

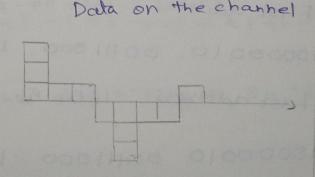
Bit b StationA

transmitted.



Bit b

Staction C



a Griven:

The block = 130.56-0.0116

Needed subnets = 1024

Erxed length prefix 16 so it is a classfull address = 1 class B.

a) Number of address in each subnet.

210 = 1024 = 10

Subnet mask to: 16+10 = 26

No.04 - bits for Host core: 32-26 = 6

Hence INO. of addresses in each subnet = 2 = 64 11.

b) Subnet prefrx

16 + 10 = 26

26 slash notation.

c) First Subnet

First address: 130.56.0.1

10000010 60111000 00000000 00000006

Last address: 130-56.0.62

10000016 00111000 00000000 00111110

d) Last subnet

First address: 130.56.255.193

10000010 00111000 1111111 11600001

Last address: 130.56.255.254

10000010 00111000 11111111 11110

... ......

3. Giren:

The ISP is granted the block = 80.70. 56.0[2]

a organizations with 500 addresses

2 organization with 250 addresses

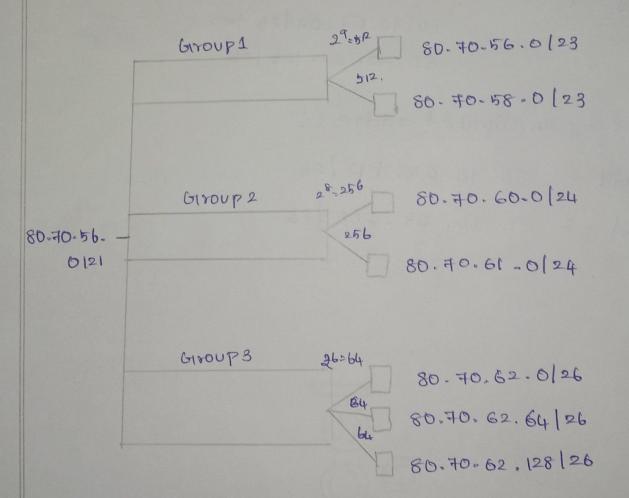
3 organizations with 50 address.

Range of addresses in the ISP block:-

Stool - 80. 70-56.0/21

End - 80. 70. 63. 255 [2]

Number of addresses in the ISP block: 2"= 2048



#### GITOUP 1

For this group reach a organization each will 500 addresses.

slange. 04. address 80. 70.56.0/23 to 80,70.58-0/23

### Group 2

For thin group, each 2 organization each with 250 address es range of address 80.70.60.0124 to 80-70.61.0124

Group 3

For this group , each 3 organization each will 50 addresses

range of address 80,70,52.0[26 to 80.70.62.64 126 to 80. 70. 62. 128 | 26

Range of un allocated address:

Stant -> 80-70.62.192/26

End -> 80.70,63.255 [26