CLASS SUBNETTING

NAME: CARO, JEYLSIE **COURSE & SECTION:** BSIT III-1

1.) 170.10.0.0 / 16 with 5 Subnets

A. Determine the Class

Class B

B. Determine the Old Subnet Mask

255.255.0.0 / 16

C. Get the Borrowed Bits 2^N>=N

2^3 >= 8

D. Get the New Subnet Mask

Old subnet mask + borrowed bits = New subnet Mask

16 + 3 = 19 255.255. 224.0 / 19 11111111 . 11111111 . 11100000 . 00000000

1st Octet 2nd Octet 3rdOctet 4thOctet

E. Get the number of Usable Hosts (count the zeros) 2^N-2 = N

2^13-2 = 8190

F. The value of the last one's

Delta: 32 (increment this in which octet you found 32)

	Network Address	First Usable Host	Last Usable Host	Broadcast Address
Subnet 0	170.10.0.0	170.10.0.1	170.10.31.254	170.10.31.255
Subnet 1	170.10.32.0	170.10.32.1	170.10.63.254	170.10.63.255
Subnet 2	170.10.64.0	170.10.64.1	170.10. 95.254	170.10. 95.255
	170.10.96.0			