Ambaish TT 214041 Assignment Date / / Subnetting Example 7 Q. TP address - 10.217.182.223 Subhet mask > /11 (or 255.294.0.0) 1) Network address > To find we need to apply the subnet mask to given IP address using bitwise IP addrew - moorostotos 00001010.1101101.0101101.01011111 Subnet mask > 1111111.11100000.0000000.00000000 Network address + In dotted decimal notation, > (Network Address + 10.192.0.0.) 2) Broadcast Address > It is the highest address in the subnet To calculate it, convert all bits in host portion of network address. Broadcast Address . 00001010.11011111.1111111.1111111 > 10.223.255.255

5)	First usable address
	It is the one right after the network
	address, i.e., Encrement the host
	portion.
	Network address >
	00001010.11000000.000000000.000000
	First usable >
	00001010.11000000.0000000.000000
	First usable is 10.192.0.1
	Talkatta alla la la la sana
4)	It is the one just before broadcast
	It is the one just before broadcast
	address.
	A Setting to Set Administration
in .	Broadcast flodress + 10.223.255.255
1	last Usable -> 10.223.255.254)
-	Company of the second of the s
	Concessor extend avenually co
5)	Number of usable host addresses.  It is the total number of addresses
	It be the total number of addresses
	blu the first usable of last usable

> No. of wake host = last mable first wable how it 1

100323.255.254/- (10.192.0.1) 71

5) Number of wieble host addresses ?
St the number total of friest

S) Number of usable host addresses &

9t is the total no of addresses blue
first wable address of (ast wable
address, inclusive:

No. of host address = 2 (No. of host bits) - 2 = 2 (21) - 2 = 2097152 - 2

= 2,097,150 //

Therefore > a) Network address + 10.192.0.0

b) Broadcast address - 10.223.255.255

e) first usable address - 10.192.0.1

d) last mable address > 10-223. 255. 254

e) No. of host address > 2,097,150/