Rell no: - \$20230010193 Subject: OCW Assignment No. :- Lab 2 Sec. No. :-4 Q1. Host X IP address = 11.110.2.112 Browny: 00001011.01101110.00000010.01110000 HOST Y IP adoless: - 11.110-2-92 Binary: - 00001011.01101110.00000010.0110000 In option 3). ans. IP addless: -225, 225, 225, 192 Binary: - 11100001 - 11100001. 11111111 - 1100000 AND with X: -00000001.011000000,0000010.01000 AND with y :-,00000001.01100000.00000010.01000000 as AND of both some option 3) is soon used. 92. Option 2)30 Loss 5 bit of The address used fort prost :- 25 = 32 possible host lent. 2 are reserved as noticed and broadcast address : 32-2=30 :. 30 nationum notember cop host belong to this subnex

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93-coption (). 32 subnets and 2046 Host. "humber of Subnets = 2n = 25 = 32. number of Hosts = 2 -2 = 24-2 = 2046 El S list subnetting left with 11 bit for host Q4 - option () (, and (, both assume they are on San e returcek To kind reheather 2 device Her on same network, we need to compare IP and entener mash. In this both how some submet mask C IP address: -142.16.128.0 livary :- 10001110. 000 19 000. 160000000 . 00000000 Sucoret acush: 255.255.240.6 Binary :- 11111111 - 11111111 - 11110000 0000000 2ND eperation - 1000 1110 . 000 10000-10000000 . 00000000 C2 IP address = 142-16 136.0 Brusy: 1000 1110.000 10000.1000 1000 0000000 Submit much: 255.268.0 Chary 1 - 1141111 - 111111 - 11111000. 00000000 AS END operation is Some. 95 -> option 3) :S10 Subset mash of 285.255.254.0 has 23 lie altocated to subnet which leaves of leit for nest. .. maximum mumber of heest = 2m-2 $= 2^{9} - 2 = 512 - 2$ we subtracted 2 due to .2 are teserved for network and broadcast.