17 Raghurem

given Network IP is belongs to class c 120+0.64.0

So In class c first 24 bits are Nep so in part-1

only 400 00 is used in host IP

201. 70.64.63 - DBA 255-255-255-19+ - SN

201-70.64.128 - SID 201-70.64.159 - DBA 255-255-255-224 - SM

201.70.64.160-SID

201.70.64.191-3DBA

255.255.255-274-5M

201.70.64.255-284-SM

201.70.64.192 - SID 201.70.64.213 - DBA 255.255.255-224-511 6th part 201.70.64.64-51D. 201.70.64.127 - DBA

25) -255 .255.192 -5 M

so it requires 11 bits for subnet JD.

so, there are 5 ips meach New so, the

130.10.255. 0 -251D 130.10.4.0 - DBA

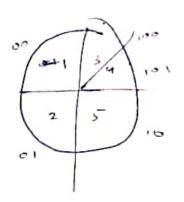
130. 10.25 5

3.) aiven 5 subnets

223.55 192.0/20

20 -> bits for HID so

223.55.1100 0000 .0000 00000



15th part we use 25:45 for subnots 10 50 2nd
223.55 192.0 | 22 -> 510
223.55.195.855 | 12 -> DBA
255.235.252.0 | 22 -> 5M

CT. TEgung

2nd part.

223.55. KG. 0 | 22 -> SID 223.55. KG. 255 | 22 -> DOA 255.255.252.0 | 22 -> SM 3rd part Here we use 3 bits fore subnet for

223.55.200.0/LS -> SID
223.55.201.255/23-> DUP
255.255.254.0/23 -> SM

223. 55.202.0 | 23 -> 51D 223.55.203.255 | 23 -> DBA 255.255.254.0 | 23 -> SM 5th part Here is 25th forst 223.75.204.0/21 - 5tD 223.55.207.255/22-2012A 205.255.255.26/21-35M

4.) Given 5 perts which geach port should dortain AI paths,

15t part 156.28.224.0/19 -> SLD 1.156.25.232.0/19 -> DBA

2N port : 156.28.223.0/19 -> SID 156.28.241.0/19 -> DBA

5rd pert : 156.28.242.0/19 -> SID 156.28.2560/19 -> DBA

4th part : 156.28.251.0/19 -> SID 156.28.255419 -> DBA

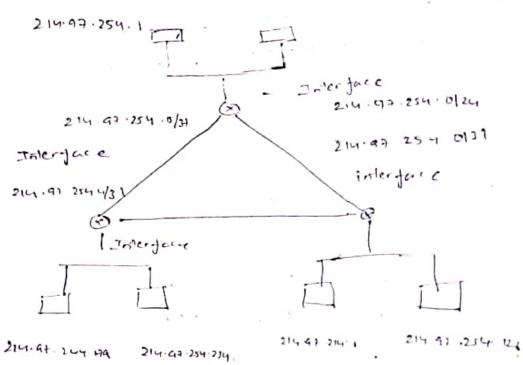
5th part : 156.28.255.5/19 -> SID 156.28.255419 -> DBA

5) 150 -223.60.130/30 150-223.60.100000 10 NID 10010110 110111111 . 00111100 . 10000010 110 municipal marining 1111111 510 11111100 10010110 1101111 00111100 100000000 223 60.128/30 150 so . Metwork IP is 150.223.60.128/30 123. 1.17.0/26 - SID . 223.1.17 63/26 - DBA 223.1.1719 125 -1 DBA 223.1.12 64/25 -1510 213.1 14 19 /28 - 1 51P 223.1.17.201/28 - DBA Traddress to & Gsubnetc arcibobio Ip Eubnets IP address to support theterfor 5 subnet: 214. a 7. 254.0/27 subnet 214 97.254.0/25 214 97 354 0/29 suparet 214 97- 254,128/25 12 8 C subnet 214 97 254.0/30 D subject 214.92 254 2/11 4

subnet

214 47.254 4/71

6 subnels with I paddres 1 A and B.c are connected with host but Ditonic doesn't have any host so



b.) Router 1

longest profix match ordgoing interface

0000111 001100001

0 0 00 111 00 1,00001

000011 10. 011000 01 1111111 JahnaA 50 0 0001110 0 1100001 1111111 Subnet D · padde 00001110101010011111111 - Subnet F 19.30 505 and Router 2 sub net in 00001110011000001 1111111 - Subnet - D 255 - 255 0 0001110011 00001 111111 - subnet .B 0 000 111 00110000 1111111 - subnet + Route-3 0000 111 00 11000 1 subnets

subnel 6

subnet E