Question 11 number of needed usable Hosts => 8000 retwork address => 135.70.0.0 ADDress class => B Default subnet Musk => 255.255.0.0 custom subnet mask => 255.255.31.255 Total number of subnets => \$ 8 Total number of Nost addresses => 8472 8192 number of wable addresses => 8550 8190 number of Bits borrowed => 13 3 6 th Subnet Range => 135.70.160.0 to 135.70 -191 .0 7th subnet number => 6 3rd subnet Broadcast address => 135.70. 95.0 5th Subnet Assignable address =) 135,70.129.0 135 . 70 . 158 . 0

Q6 il address 10.0.0.0 ADDress class => A custom subnet wask => 255. 240.0.0 Minimum number of subnets needed => 7 extra subnets for 20% growth => 2 total number of subnets 2) 9 18 address Rouge for kehrology => 10.0.0:0 10.15.0.0 18 address Range for science > 10.16.0.0 10.31.0.0 1P adoless for Bits and drawn => 10.32.0.0 10.47.0.0 18 address for administration => 10.48.0.0 10.63.0.0 IP address for Router A Lo Router B => 10.64.0.0 10.79.0.0 19 Address for Routes A La Rouler C => 10.80.0.0 10.95.00 19 ADDress for Rouler B la couler C => 10.96.0.0 10.111.0.0

Q4 ADD ress => 135. 126.0 ADDRess class => B Castone Subnet newsk => 255, 255, 240.0 Minimara number of subnets required => 5 eatra subnets for 70% growth => 4 Total number of sabriets needed => 9 nownber of Hest addresses in largest Subact grown number of addresses needed for 70 % granth in largest subject => 228 Total number of subnets needed => 553 18 address range New York => 135. 126.0.0 to 135.126.15.0 18 address range Washington D.C => 135.126.16.0 135.126.31.0 18 address range for Dallas => 135.126.32.0 to 139.126.47.0 IP ADDress range for Rouber A la Rouber B serial connection => 135.126.48.0 ho 135 - 126 - 63 . 0

Question 15 number of needed weather lests => 50 network address 172, 59,0.0 ADD ress class => B Default subnet mask => 255.255.0.0 custom subnet musk => 255, 255, 255, 192 Total number of subnets => 1024 total number of Host addresses => 64 number of usable adelrosses => 62 number of bits borrowed => \$ 10 128 64 32 16 8 W 21 128 764 192

Question 7 number of needed Subnets 2000 number of usable Host 15 Network ADDress 178.100.0.0 ADDress class => 13 default subnet mask => 255, 255.0.0 custom subject Mask => 255. 255. 255. 224 Total number of subnets => 2048 2048 Total number of Host address => 32 number of usuble addresses => 30 number of bits borrowed => 11 total no 32 32 Hosts 64 - Z Sub + 128 30 no of 224 wasle H

Question 12 number of needed usable Hests => 45 Network address => 198, 125.50.0 ADDress class => C Default Subnet Mark => 255.255.255.0 custom subnet musk => 255.255.265.192 Total number of subjects => 44. Total number of Host addresses => 64 64 number of usable addresses => b/2 62 number of Bits borrowed => 2 2 2nd subnet Runge => 198.125.50.64 to 198.125.50.127 2nd Subnet number => 1 Broad cost address for 4th subnet => 198.125.50.255 Assignabl addresses for 3rd subnet => 198.125.50.129 to 198.125.50.190