ID: 22-46113-1
AB.CDEFGG~H

① Admimtration = A×50
= 2×50
= 100

Salon = B×25
= 2×25
= 50

Marketing = 4×15 = 60

IT = D×10 = 6×10 = 60

Guest = E×5 = 1×5 = 5

			Subnet Mark	IP address
A=100	$2^7 = 128$	Host = 7 Netwonk = 25	255.255.255.128	192.168.0.1~ 192.168.0.127/25
M=60	$2^6 = 64$	Host = 6 Netwonk = 26	255.255.255.192	192.168.0.128~ 192.168.0.191/26
I=60	$2^6 = 64$	Host = 6 Netwook = 26	255.255.255.192	192.168.0.192~ 192.168.0.255/26
S = 50	$2^6 = 64$	Host = 6 Netwook = 26	255.255.255.192	192.168.1.0~ 192.168.1.63/26
u = 5	$2^3 = 8$	Host = 3 Netwonk = 29	255.255.255.248	192.168.1.64~ 192.168.1.71/29

② IP addresss = 22.46.0.0/16

				Subnet mask	IP address

S = 500 $2^9 = 512$ Host = 9   255.255.254.0   22.46.0.1 —
                 Network = 23   22.46.1.255/23

F = 100 $2^7 = 128$ Host = 7   255.255.255.128   22.46.2.0 —
                 Network = 25   22.46.2.127/25

Lib = 50 $2^6 = 64$ Host = 6   255.255.255.192   22.46.2.128 —
                 Network = 26   22.46.2.191/26

Lab = 30 $2^5 = 32$ Host = 5
                 Network = 27   255.255.255.224   22.46.2.192 —
                                              22.46.2.223/27

A = 20 $2^5 = 32$ Host = 5   255.255.255.224   22.46.2.224 —
                 Network = 27   22.46.2.255/27

③

Emergency = AB × 100

= 22 × 100

= 2200

Pediatrica = CD × 50

= 46 × 50

= 2300

Surgery = EF × 30

= 11 × 30

= 330

22-46115-1
AB-CDEFG-H

		Subnet Mask	IP Address
P = 2300	$2^{12} = 4096$ Host = 12 Network = 20	255.255.240.0	172.16.0.1 – 172.16.15.255 /20
E = 2200	$2^{12} = 4096$ Host = 12 Network = 20	255.255.240.0	172.
S = 330	$2^9 = 512$ Host = 9 Network = 23	255.255.254.0	

①

F=50 $2^6 = 64$ Host=6   Subnet Mask

                    Network 226   255.255.255.192

B=30 $2^5 = 32$ Host=5   255.255.252.224

                    Network =2d