C1-2)

Addresses needed for each office:

First Floor: 4 office x 40 = 160 Second Floor: 8 office x 40 = 320 Third Floor: 3 office x 40 = 120

Visitors: 60

(constant = 50):

First Floor: 4 blocks Second Floor: 7 blocks Third Floor: 3 blocks Visitors: 2 blocks

Total blocks = 16 => 4 bit

IP Block	Number	Range
	F1/1	172.16.64.0/25 255.255.255.128 1000000(128) 172.16.64.1 - 172.16.64.127
	F1/2	172.16.64.128/25 255.255.255.128 1000000(128) 172.16.64.129 - 172.16.64.255
	F1/3	172.16.65.0/25 255.255.255.128 1000000(128) 172.16.65.1 - 172.16.64.127
	F1/4	172.16.65.128/25 255.255.255.128 1000000(128) 172.16.65.129 - 172.16.64.255
	F2/1	172.16.66.0/25 255.255.255.128 1000000(128) 172.16.66.1 - 172.16.64.127
IP Block: 172.16.64.0/21	F2/2	172.16.66.128/25 255.255.255.128 1000000(128) 172.16.66.129 - 172.16.64.255
Net Mask:	F2/3	172.16.67.0/25 255.255.255.128 1000000(128) 172.16.67.1 - 172.16.64.127
255.255.248.0 3 rd byte (Netmask):	F2/4	172.16.67.128/25 255.255.255.128 1000000(128) 172.16.67.129 - 172.16.64.255
11111000	F2/5	172.16.68.0/25 255.255.255.128 1000000(128) 172.16.68.1 - 172.16.64.127
NetID LSB value: 8 IP-Range:	F2/6	172.16.68.128/25 255.255.255.128 1000000(128) 172.16.68.129 - 172.16.64.255
172.16.64.1 172.16.95.254	F2/7	172.16.69.0/25 255.255.255.128 1000000(128) 172.16.69.1 - 172.16.69.127
	F3/1	172.16.69.128/25 255.255.255.128 1000000(128) 172.16.69.129 - 172.16.64.255
	F3/2	172.16.70.0/25 255.255.255.128 1000000(128) 172.16.70.1 - 172.16.64.127
	F3/3	172.16.70.128/25 255.255.255.128 1000000(128) 172.16.70.129 - 172.16.64.255
	V/1	172.16.71.0/25 255.255.255.128 1000000(128) 172.16.71.1 - 172.16.64.127
	V/2	172.16.71.128/25 255.255.255.128 1000000(128) 172.16.71.129 - 172.16.64.255

به دلیل کمبود وقت، فقط دفترهای طبقه اول نشان داده شدهاند:

F1-Office1:

172.16.64.0/27 255.255.255.224

1110000(32)

172.16.64.1 - 172.16.64.31

F1-Office2:

172.16.64.32/27 255.255.255.224

1110000(32)

172.16.64.33 - 172.16.64.63

F1-Office3:

172.16.64.64/27 255.255.255.224

1110000(32)

172.16.64.65 - 172.16.64.95

F1-Office4:

172.16.64.96/27 255.255.255.224

1110000(32)

172.16.64.97 - 172.16.64.127

دفترهای طبقات دیگر بهطریق مشابه بهدست می آیند.

ب) بر اساس Longest Prefix Matching، آخرین Gateway، آخرین 127.0.0.1