Bài tập IP

Question 1

The IP address 131.107.0.0 is a class B address.
What is the range of binary values for the first octet in this address class?

A. 10000000 - 11111111
B. 00000000 - 10111111
C. 10000000 - 10111111
D. 10000000 - 11011111
E. 11000000 - 11101111

Question 2

What is the network address for a host with
the IP address 123.200.8.68/28?

    A.   123.200.8.0
    B. 123.200.8.32
    C. 123.200.8.64
    D. 123.200.8.65
    E. 123.200.8.31
    F. 123.200.8.1

Question 3

Using a class C address range 192.168.21.12 your network needs twenty-eight subnets. Which subnet mask should you use?

A.   255.255.0.28
B.   255.255.255.0
C.   255.255.255.28
D.   255.255.255.248
E.   255.255.255.252

You need to configure an IP address for workstation TestKingA. Based on the information shown above, what IP address should be assigned to this host?

A. 192.168.1.159/28
B. 192.168.1.145/28
C. 192.168.1.160/28
D. 192.168.1.144/28
E. 192.168.1.143/28

Question 5

Which of the following addresses can be assigned to a host when using a subnet mask of 255.255.254.0? (Select three)

A. 113.10.4.0
B. 186.54.3.0
C. 175.33.3.255
D. 26.35.2.255
E. 152.135.7.0
F. 17.35.36.0

Texas

E0
192.168.5.33/27

Based on the information above, which IP address should be assigned to the host?

A. 192.168.5.5   B. 192.168.5.32

C. 192.168.5.40   D. 192.168.5.63

E. 192.168.5.75   F. None of the above

Question 7

If a host on a network has the address 172.16.45.14/30, what is the address of the subnetwork to which this host belongs?

A. 172.16.45.0
B. 172.16.45.4
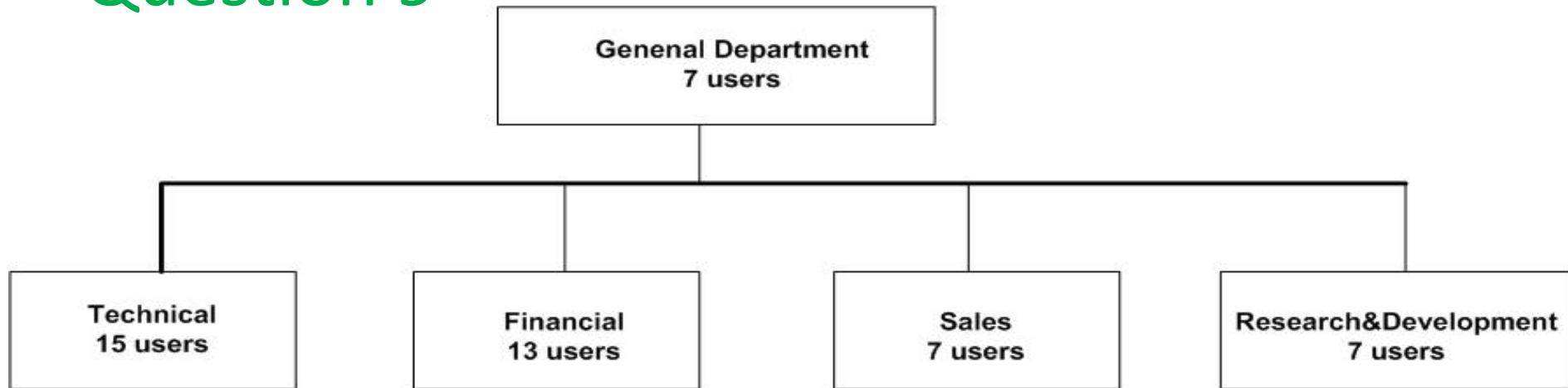C. 172.16.45.8
D. 172.16.45.12
E. 172.16.45.18

Question 8

Give the following IP: 172.16.80.92/20, 172.16.32.100/20 and 172.16.65.100/20.
What are the broadcast addresses of the subnets in which these IP address belong to?
(Select three options.)

A. 172.16.82.255
B. 172.16.95.255
C. 172.16.64.255
D. 172.16.32.255
E. 172.16.47.255
F. 172.16.79.255

Question 9

ABC.com.vn

| Genenal Department |
| 7 users |

| Technical | Financial | Sales | Research&Development |
| 15 users | 13 users | 7 users | 7 users |

ABC company is acquiring a new Class C IP network.
Which of the following subnet masks will provide one useful subnet for each department while still making allowance for enough usable host addresses per department as specified in the graphic?

A. 255.255.255.128
B. 255.255.255.192
C. 255.255.255.224
D. 255.255.255.240
E. 255.255.255.248
F. 255.255.255.252

Question 10

 You are a network technician at NewStar.vn. Your company has a larger 172.12.0.0 network that you want to divide into subnets. You want each subnet to support 459 hosts. You also want to provide the maximum number of subnets.
Which network mask should you use?

      A. 255.255.0.0
      B. 255.255.128.0
      C. 255.255.224.0
      D. 255.255.254.0

Question 11

You are a network administrator at Seibels. You must configure a new subnetwork at the Seibels branch office in Berlin. You have been provided with the subnet mask of 255.255.255.224. You want to assign IP addresses to hosts on the subnet.

Which of the following IP addresses would you use? (Choose all that apply.)

A. 16.23.118.63
B. 87.45.16.159
C. 92.11.178.93
D. 134.178.18.56
E. 192.168.16.87
F. 217.168.166.192

Question 12

 You are a network technician at Zysese company. You have subnetted the 210.106.14.0 network with a /24 mask.

Your supervisor asks you how many usable subnetworks and usable host addresses per subnet this would
make provision for.

What would your response be?

A. 1 network with 254 hosts
B. 4 networks with 128 hosts
C. 2 networks with 24 hosts
D. 6 networks with 64 hosts
E. 8 networks with 36 hosts

Question 13

You have subnetted the 213.105.72.0 network with a /28 mask. How many usable subnetworks and usable host addresses per subnet will be provided?

A. 2 networks with 62 hosts
B. 6 networks with 30 hosts
C. 16 networks and 16 hosts
D. 62 networks and 2 hosts
E. 16 networks and 14 hosts

Question 14

You are a network technician at Fravo, Inc. You are planning a network installation for the company. The design requires 100 separate subnetworks, resulting in the acquisition of a Class B network address. Which of the following subnet masks will provide the 100 subnetworks required, if 500 usable host addresses are required per subnet?

    A. 255.255.0.0
    B. 255.255.224.0
    C. 255.255.254.0
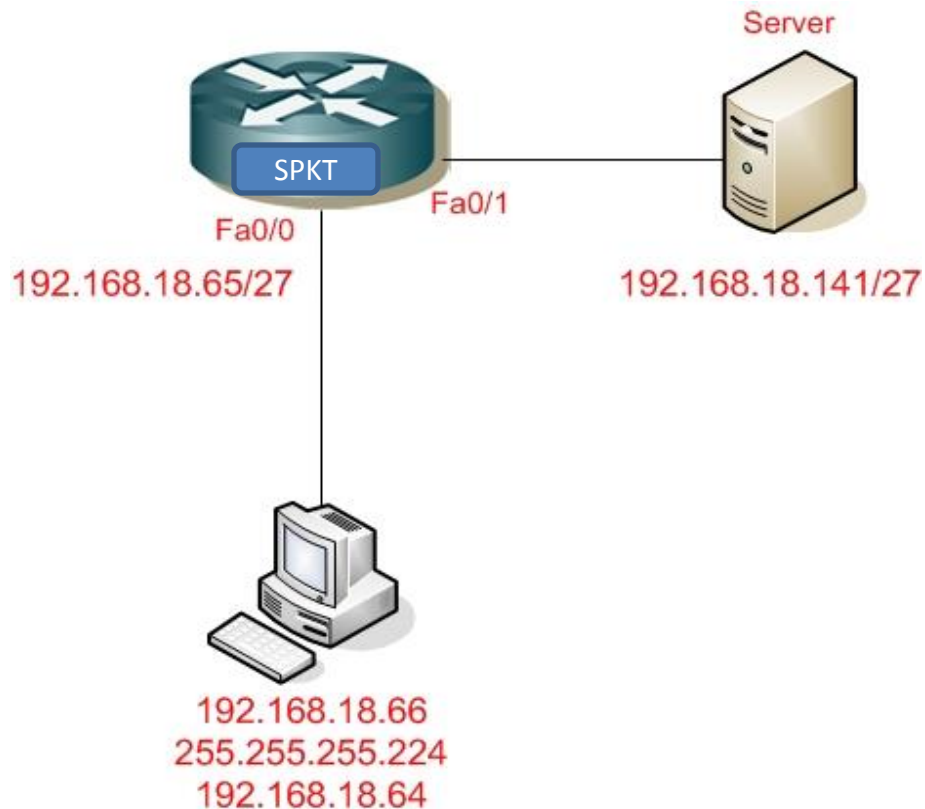   D. 255.255.255.0
    E. 255.255.255.224
    F. 255.255.255.254

Question 15

You are a network technician at company. Company has a class C network license. The company requires 5 usable subnets. Each subnet must accommodate at least 18 hosts.

Which network mask should you use?

A. 225.225.224.0
B. 225.225.240.0
C. 225.225.255.0
D. 255.255.255.224
E. 225.225.255.240

Question 16

Server

SPKT

Fa0/1

Fa0/0

192.168.18.65/27

192.168.18.141/27

192.168.18.66
255.255.255.224
192.168.18.64

You are a network technician at a company. You add a new workstation to the network to accommodate a new employee. The relevant section of the network is shown in the beside exhibit.

The employee is unable to connect to the server at IP address 192.168.18.141/27.

Can you identify the incorrectly configured network parameter in the workstation configuration?

A. IP address of the Ethernet 0 router interface
B. Server
C. Workstation default gateway
D. Workstation subnet mask
E. Workstation IP address
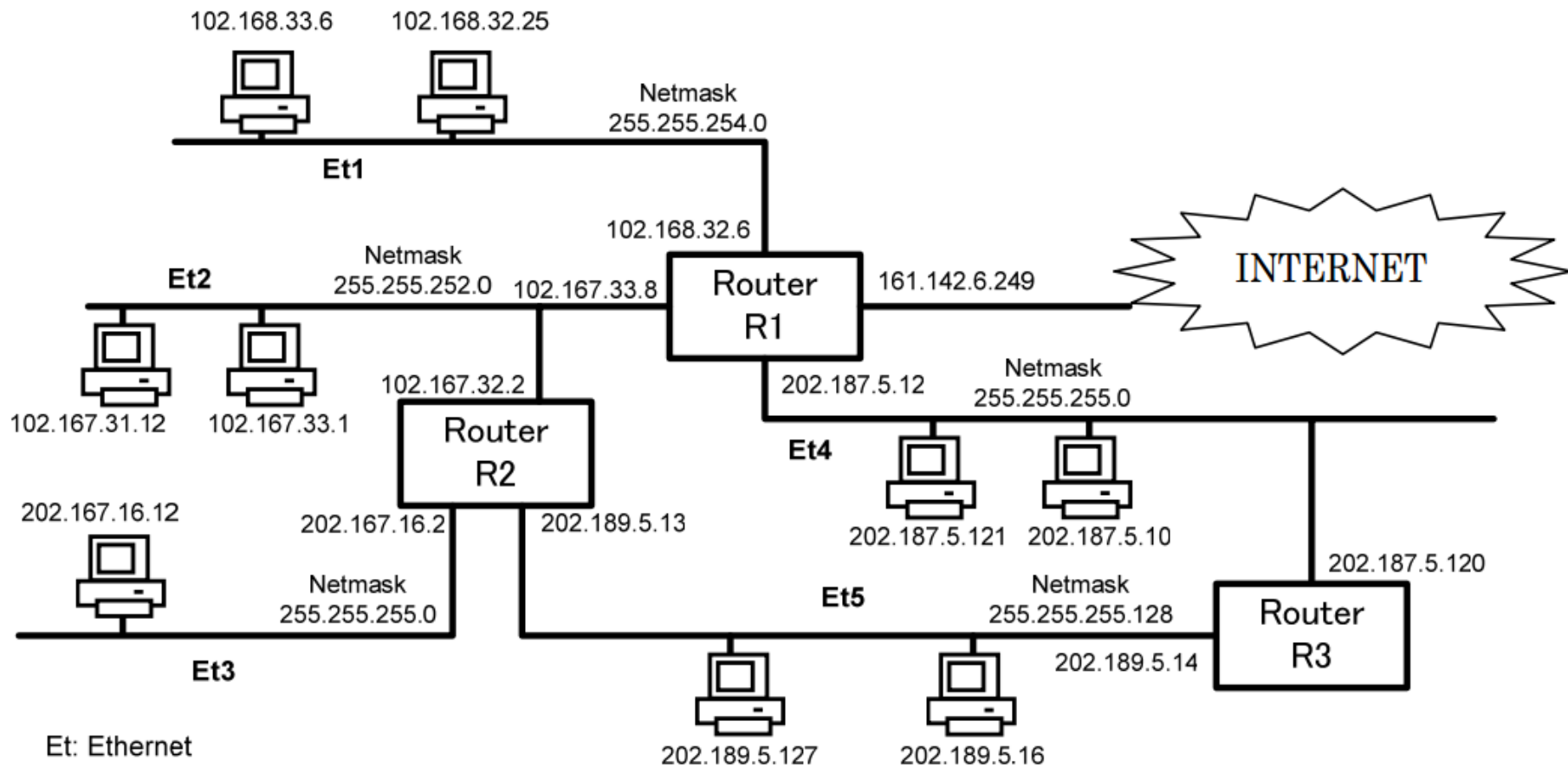
- Identify two PCs in which the IP address are wrongly configured
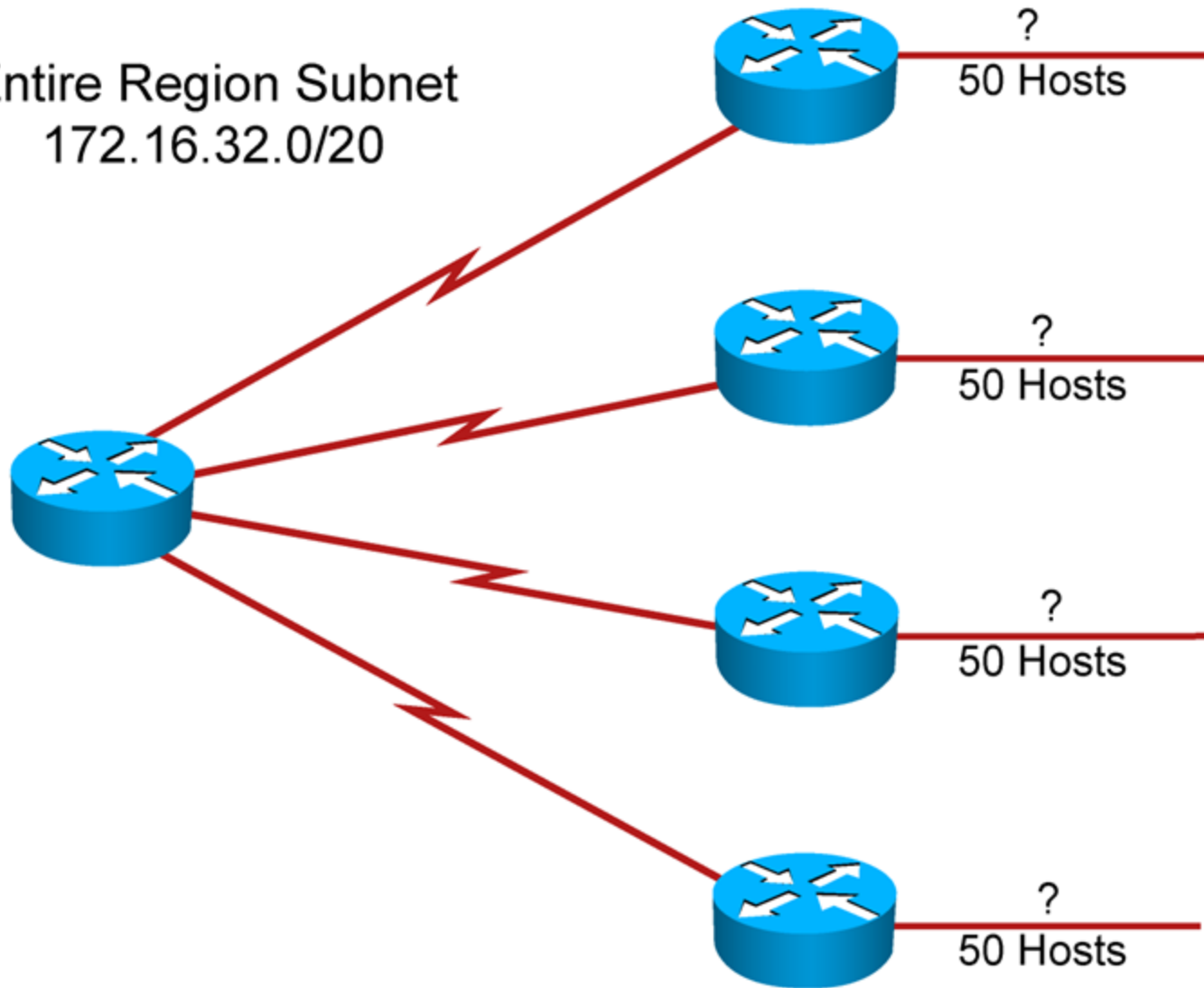- What is the range of IP addresses that can be used in LAN Et2?
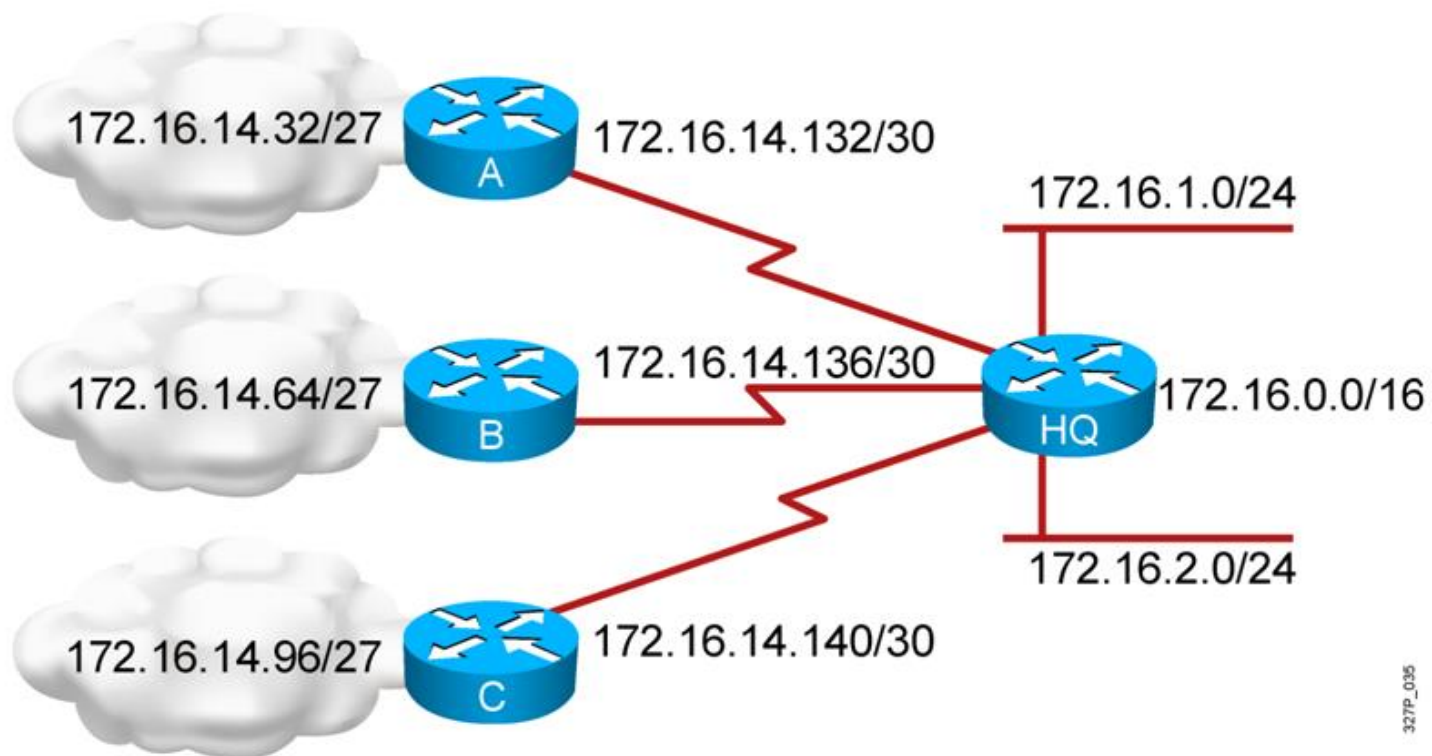
Subnet 172.16.14.0/24 is divided into smaller subnets.

- – Subnet with one mask (/27).
- – Then further subnet one of the unused /27 subnets into multiple /30 :

Entire Region Subnet
172.16.32.0/20

? 50 Hosts

? 50 Hosts

? 50 Hosts

? 50 Hosts

327P_608

Subnetted Address: 172.16.32.0/20
In Binary   10101100. 00010000.0010 0000.00000000

VLSM Address: 172.16.32.0/26
In Binary   10101100. 00010000.0010 0000.00 000000

	Network		Subnet	VLSM Subnet	Host	
1st subnet:	172	. 16	.0010	0000.00	000000=	172.16.32.0/26
2nd subnet:	172	. 16	.0010	0000.01	000000=	172.16.32.64/26
3rd subnet:	172	. 16	.0010	0000.10	000000=	172.16.32.128/26
4th subnet:	172	. 16	.0010	0000.11	000000=	172.16.32.192/26
5th subnet:	172	. 16	.0010	001.00	000000=	172.16.33.0/26

327P_091

Entire Region Subnet
172.16.32.0/20

LAN Subnets
Derived from
172.16.32.0/20

? 2 Hosts

172.16.32.0/26
50 Hosts

? 2 Hosts

172.16.32.64/26
50 Hosts

2 Hosts ?

172.16.32.128/26
50 Hosts

2 Hosts ?

172.16.32.192/26
50 Hosts

Entire Region Subnet
172.16.32.0/20

LAN Subnets
Derived from
172.16.32.0/20

172.16.33.0/30

2 Hosts

172.16.32.0/26

50 Hosts

172.16.33.4/30

2 Hosts

172.16.32.64/26

50 Hosts

2 Hosts

172.16.32.128/26

172.16.33.8/30

50 Hosts

WAN Subnets
Derived from
172.16.33.0/26

2 Hosts

172.16.33.12/30

172.16.32.192/26

50 Hosts