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IFT 259 Introduction to Internet Networking

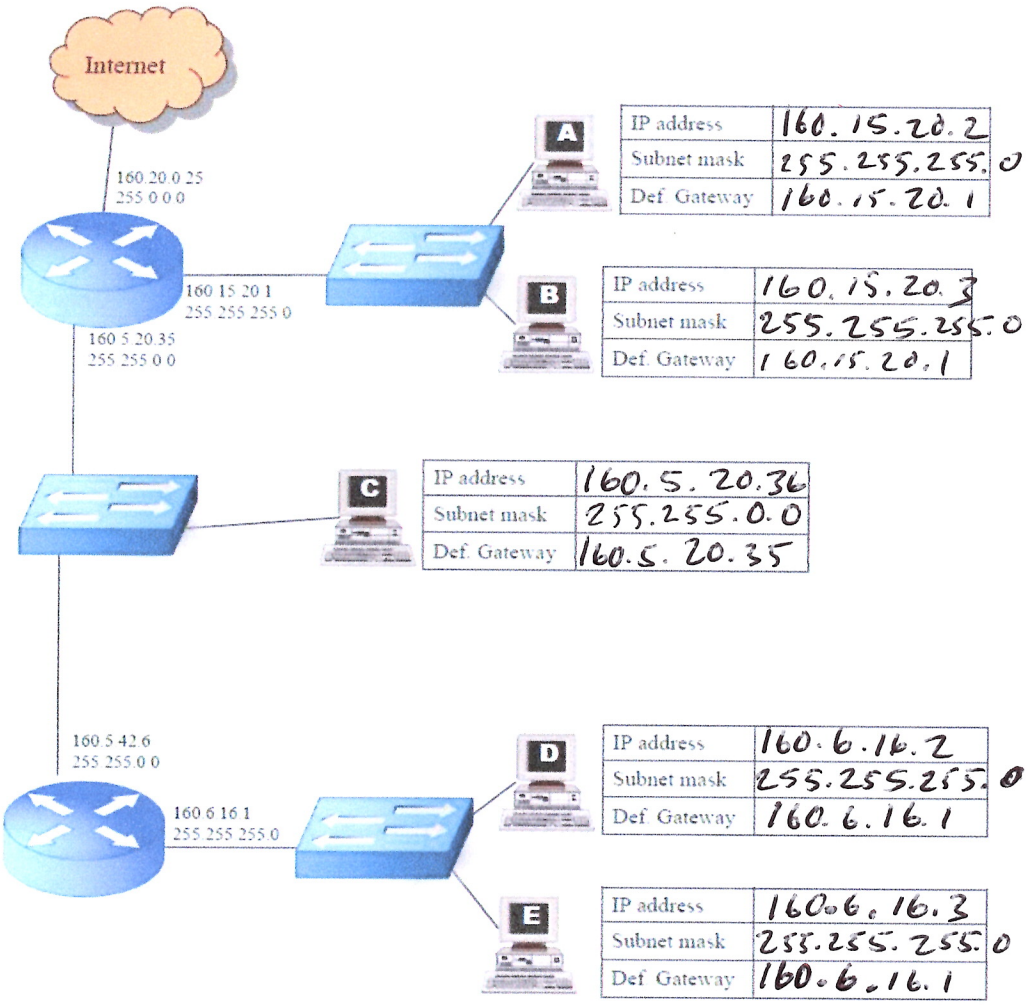
Lab 14
Router Address Configuration

For all parts of the lab, assume all switches are layer 2 switches (unmanaged switches)

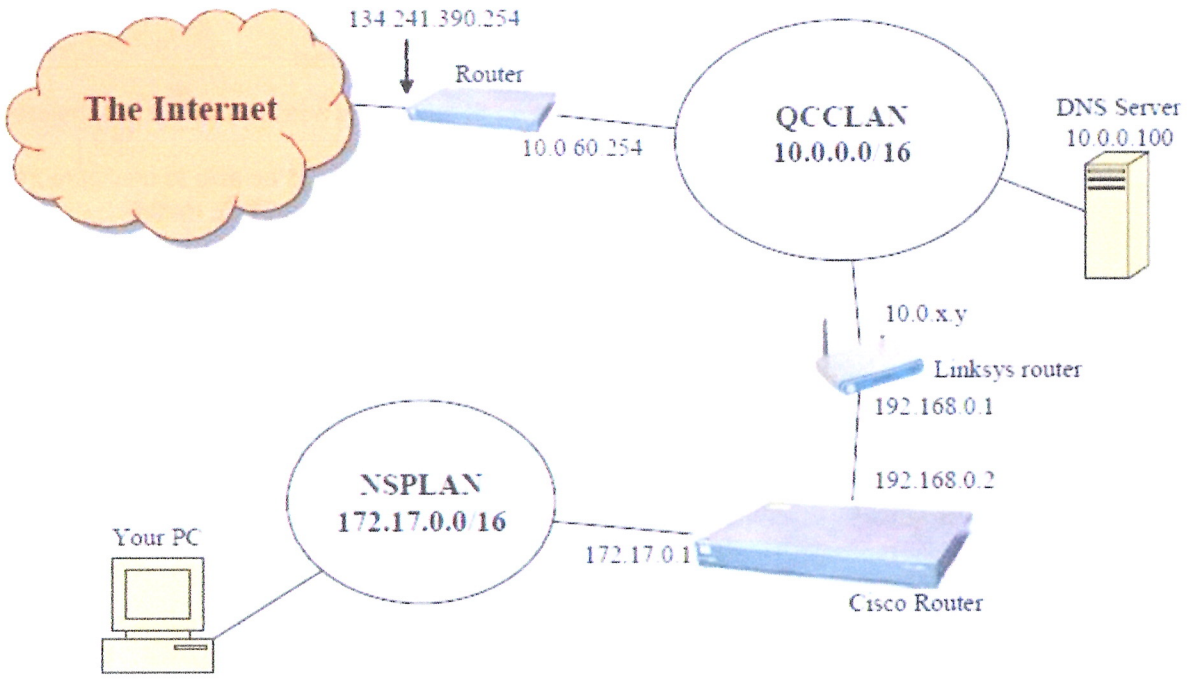
Part A: IP Configuration

For each of the computers A, B, C, D and E assign an IP address, a subnet mask, and a default gateway.

By understanding the Router's IP address and Subnet Mask, you should be able to configure the PCs on the networks. A PC can sometimes can get their configuration details from multiple routers.

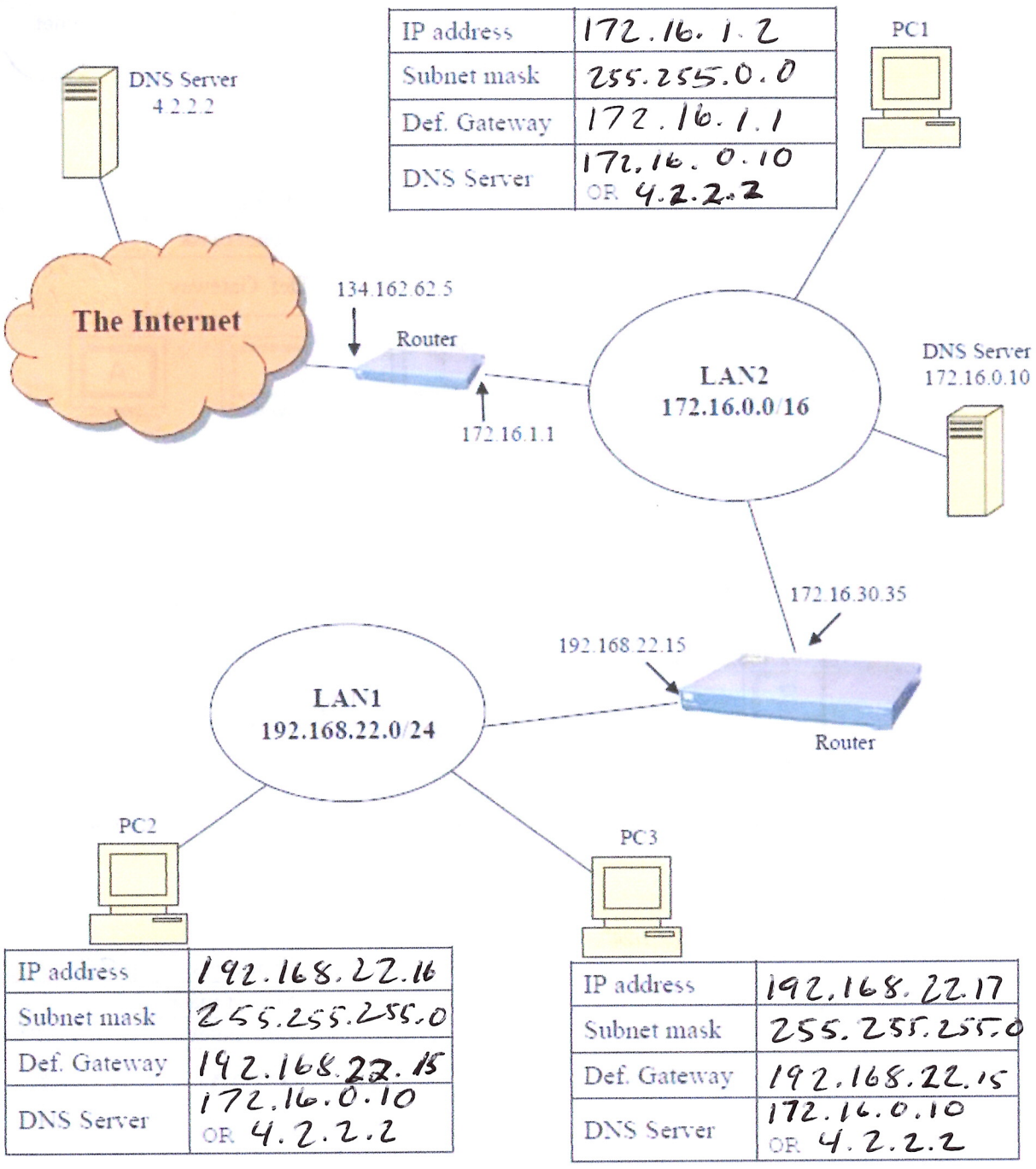


Assign an IP address, subnet mask, default gateway and DNS server address to Your PC in the following network:



IP address	172.17.0.2
Subnet mask	255.255.0.0
Def. Gateway	172.17.0.1
DNS Server	10.0.0.100

Assign a valid IP address, SM, DG, and DNS server address to PC1, PC2, and PC3 in the following network:

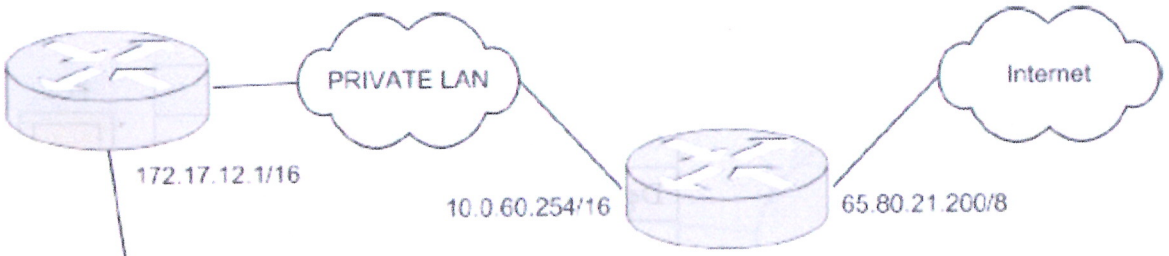


IP address	172.16.1.2
Subnet mask	255.255.0.0
Def. Gateway	172.16.1.1
DNS Server	172.16.0.10 OR 4.2.2.2

IP address	192.168.22.16
Subnet mask	255.255.255.0
Def. Gateway	192.168.22.15
DNS Server	172.16.0.10 OR 4.2.2.2

IP address	192.168.22.17
Subnet mask	255.255.255.0
Def. Gateway	192.168.22.15
DNS Server	172.16.0.10 OR 4.2.2.2

For each of the computers A, B, and C, assign an IP address, a subnet mask, and a default gateway.



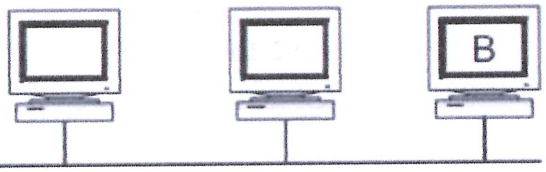
IP address	192.168.1.2
Subnet mask	255.255.255.0
Def. Gateway	192.168.1.1 OR 192.168.2.1

192.168.1.1/24

192.168.1.2/24

192.168.2.1/24

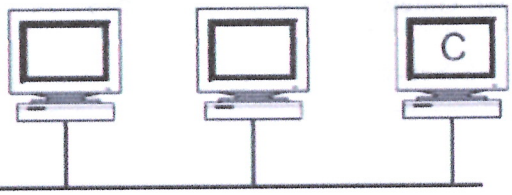
IP address	192.168.2.3
Subnet mask	255.255.255.0
Def. Gateway	192.168.2.1 OR 192.168.2.2



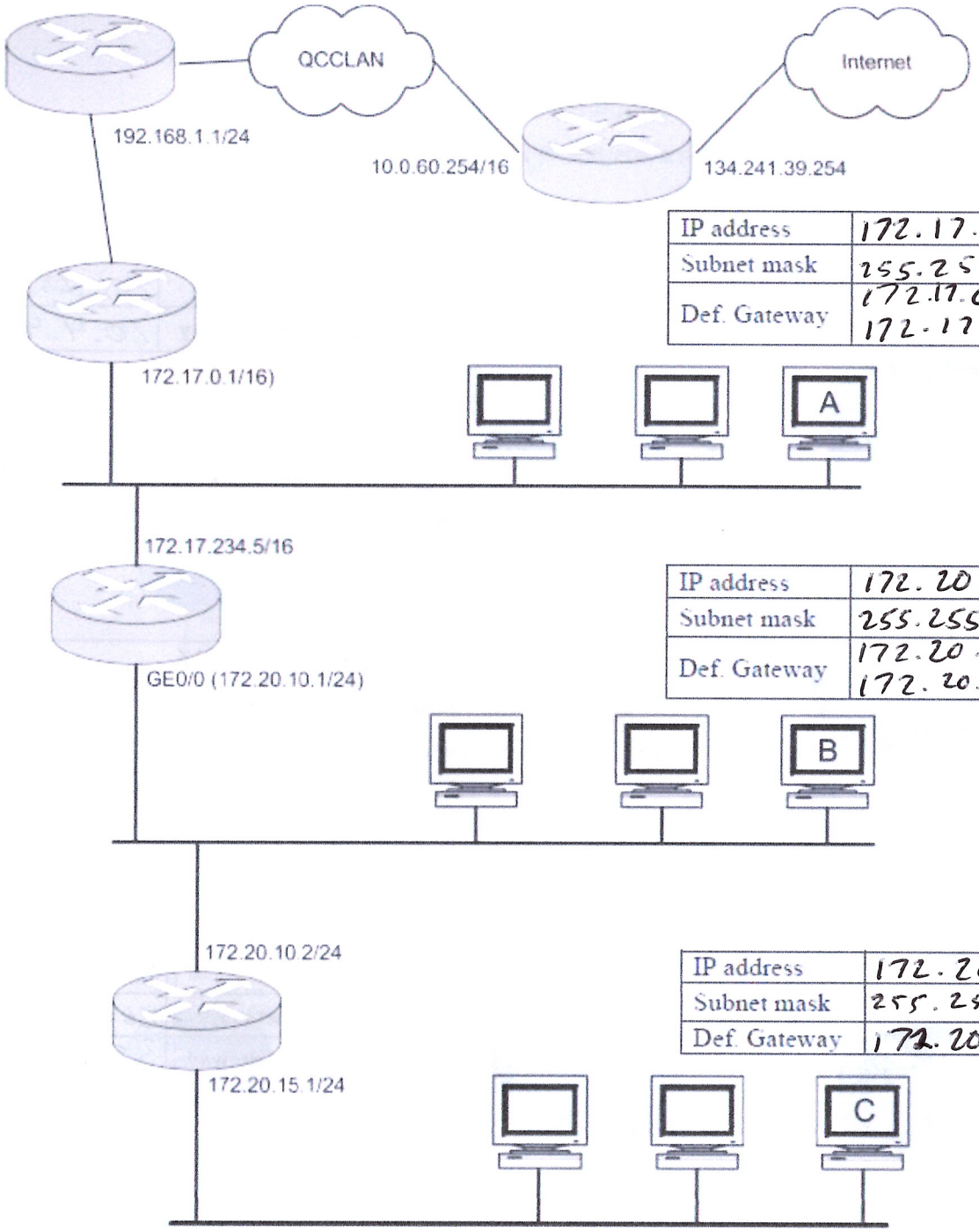
192.168.2.2/24

IP address	192.168.3.2
Subnet mask	255.255.255.0
Def. Gateway	192.168.3.1

192.168.3.1/24



For each of the computers A, B, and C, assign an IP address, a subnet mask, and a default gateway.

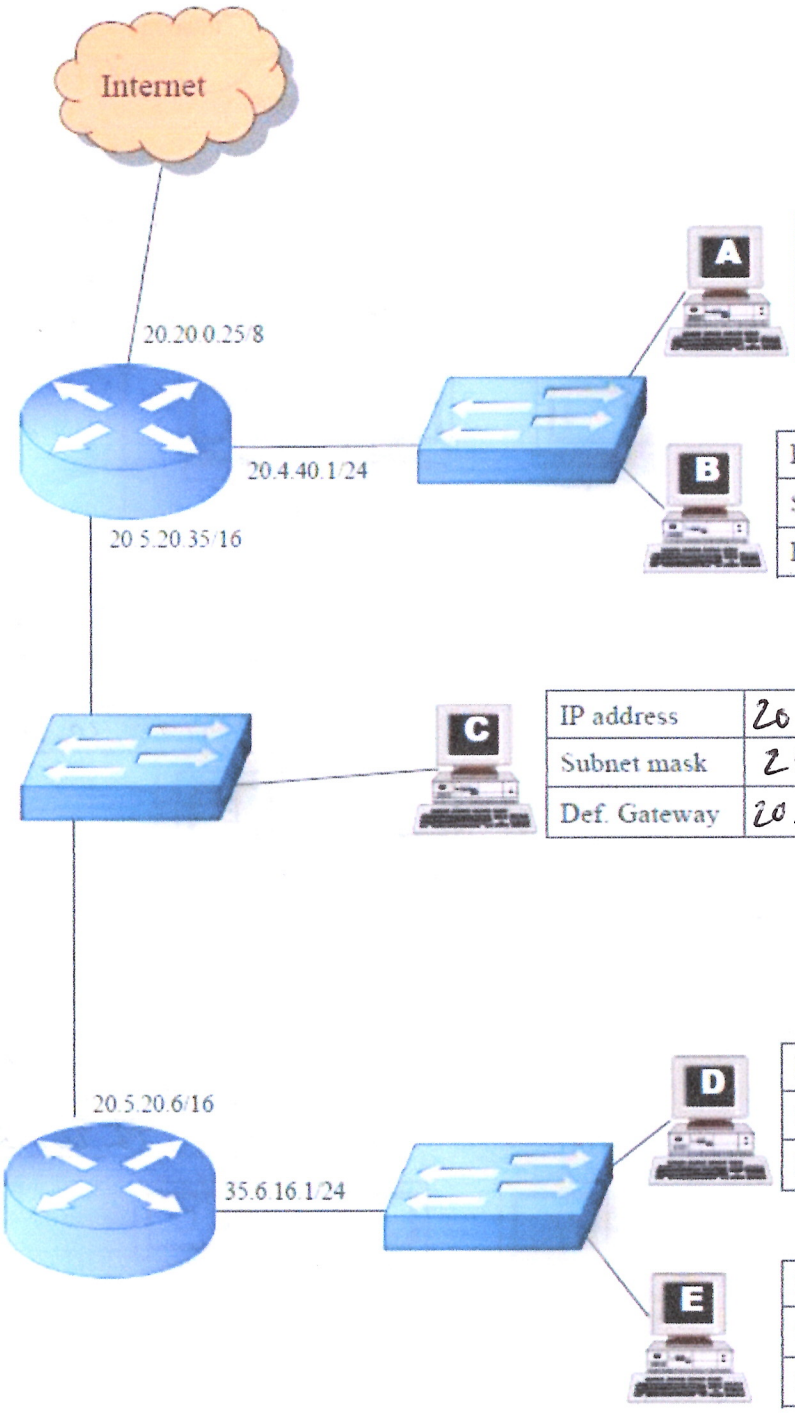


IP address	172.17.0.2
Subnet mask	255.255.0.0
Def. Gateway	172.17.0.1 OR 172.17.234.5

IP address	172.20.10.3
Subnet mask	255.255.255.0
Def. Gateway	172.20.10.1 OR 172.20.10.2

IP address	172.20.15.2
Subnet mask	255.255.255.0
Def. Gateway	172.20.15.1

For each of the computers A, B, C, D, and E assign an IP address, a subnet mask, and a default gateway.



IP address	20.4.40.2
Subnet mask	255.255.255.0
Def. Gateway	20.4.40.1

IP address	20.4.40.3
Subnet mask	255.255.255.0
Def. Gateway	20.4.40.1

IP address	20.5.20.36
Subnet mask	255.255.0.0
Def. Gateway	20.5.20.35 OR 20.5.20.6

IP address	35.6.16.2
Subnet mask	255.255.255.0
Def. Gateway	35.6.16.1

IP address	35.6.16.3
Subnet mask	255.255.255.0
Def. Gateway	35.6.16.1