

King Saud University Collage Of Applied Studies And Community Service Database and Programming Diploma

Subnetting Examples

Example 1: Given the following IP address 10.245.131.0 and a subnet mask of 255.255.224.0 (/19) determine the following:

1. Class of the IP

A

2. Default subnet mask

255.0.0.0

3. Network Address

10.0.0.0

4. Subnet ID

Example 2: Given the following IP address 172.16.189.5 a subnet mask of 255.255.254.0/23 determine the following:

1. Class of the IP

B

2. Default subnet mask

255,255,0,0

3. Network Address

172.16.0.0

4. Subnet ID

Subnet ID=172.16.188.0

5. Broadcast address of the subnet.

Broad cast address = (Convert all the host bits in subnet ID to 1s)



Example 3: Given the following IP address 192.168.121.46 a subnet mask of 255.255.255.240/28 determine the following:

1. Class of the IP

 \mathbf{C}

2. Default subnet mask

255.255.255.0

3. Network Address

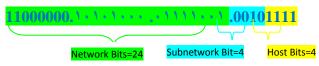
192.168.121.0

4. Subnet ID

192.168.121.32

5. Broadcast address of the subnet.

Broad cast address = (Convert all the host bits in subnet ID to 1s)



192.168.121.47