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LAB 6: Tutorial
IP Address and Subnetting

Question 1

Which class of IP address provides a maximum of only 254 host addresses per network?

-   255.255.255.0/24

Question 2

List and briefly explain the THREE (3) forms of IPv4 communication

-   Unicast - from one host to another host
-   Broadcast - from one host to all other host in the network
-   Multicast - from one host to selected group of host

Question 3

A router outside the organization receives a packet with destination address 10.20.30.40 /9. What is the network and broadcast address for the destination address?

-   Network: 10.0.0.0
    Broadcast: 10.127.255.255

Question 4

A packet with destination address 201.0.102.62 /30. What is the network and broadcast address for the source address?

-   Network: 201.0.102.60
    Broadcast: 201.0.102.63

Question 5

Given an IP address for Web Server owned by XYZ enterprise is 190.1.33.91 with Subnet Mask 255.255.252.0. Find the network and broadcast address on which this IP address is located.

-   Network: 190.1.33.88/30
    Broadcast: 190.1.33.91