

Network Communication Networks

Summer 2013

Subnetting Practice Questions

1. How many subnets and hosts per subnet can you get from the network 172.28.0.0 255.255.254.0?
128 subnets and 510 hosts
2. What is the first valid host on the sub-network that the node 172.20.253.229/26 belongs to?
172.20.253.193
3. What is the first valid host on the sub-network that the node 172.22.77.229/24 belongs to?
172.22.77.1
4. Which subnet does host 172.25.84.208/23 belongs to?
172.25.84.0
5. What is the broadcast address of the network 172.21.128.0 255.255.254.0?
172.21.129.255
6. Which subnet does host 172.30.185.77/24 belongs to?
172.30.185.0
7. What is the Subnet Mask corresponding to a shorthand of /25
255.255.255.128
8. What is the valid host range for the network that the IP address 10.54.110.146 255.255.255.248?
First Host: 10.54.110.145, Last Host: 10.54.110.150
9. Enter the last valid host on the network 172.29.156.0/22
172.29.159.254
10. What subnet mask would you use for the 172.31.0.0 network, such that you can get 3110 subnets and 10 hosts per subnet
255.255.255.240