Project3

1- What is an ip address?

A 32 bit unique string of numbers separated by periods that identifies each computer using the Internet Protocol to communicate over a network.

2- what is the network portion of an ip address?

The first three octet on an IP address. it does not change eg the Class C

255 represents network prefix

3- what is the hosts portion of an ip address?

0 represents host suffix on an IP address

4- given an ip adress of 190.168.1.230,

a- what is the class of this ip? = class B

b- what is the subnetmask? = 255.255.0.0

c- how many bits are in the network portion? 8+8=16

d- how many ip's are available in this network?= 65536

e- how many ip's can be given to devices? 65536-2= 65534

A single IP address can only be assigned to one interface/device at any given time. The reason why is that other devices need to learn a correlation between a MAC address and an IP address.

5- what is the difference between an ip address and a mac address?

A Mac address is a unique identification that all internet devices have. It does not change. An IP address can change.

6- what is NAT?= A protocol that enables a router to manage requests from all devices in a network

7- what is your home public ip address? What is my public ip= 24.142.27.72

8- given the ip 10.0.0.45 and the subnetmask is 255.255.255.0,

a- what is the class of the ip address? Class C

b- how many bits are in the network portion? 24

9- what is the difference between a dynamic ip and a static ip: Dynamic IP is given by the system (DHCP) and is subject to change each time that you restart your system. Static IP is does not change when you restart the system, and its made static by the Systems admin

10- built a server -client network with tree computers, one server, one switch.

assign a class B ip to your devices.

11- why are you leaving your present company? I need more professional challenge which your company is offering