



## CSC 322: computer networking

### Sheet 4

1. You have an interface on a router with the IP address of 192.168.192.10/29. Including the router interface, how many hosts can have IP addresses on the LAN attached to the router interface?  
A) 16      **B) 6**      C) 32      D) 8
2. If a host on a network has the address 172.16.45.14/30, what is the subnetwork this host belongs to?  
A) 172.16.45.8    B) 172.16.45.4    C) 172.16.45.0    **D) 172.16.45.12**
3. What subnet mask would you use for the 172.27.0.0 network, such that you can get 190 subnets and 160 hosts per subnet?  
A) 255.234.0.0      B) 255.255.255.0  
C) 255.255.254.0      D) 255.16.1.100
4. Enter the first valid host on the network 10.12.176.0, 255.255.240.0  
A) 10.12.176.3    B) 10.12.176.23    **C) 10.12.176.1**    D) 10.12.176.22
5. How many subnets and hosts per subnet can you get from the network 192.168.249.0/27?  
A) 8 subnets and 32 hosts      B) 10 subnets and 30 hosts  
C) 10 subnets and 32 hosts      D) 8 subnets and 30 hosts
6. What is the first valid host on the subnetwork that the node 192.168.205.203 255.255.255.248 belongs to?  
A) 192.168.207.201      **B) 192.168.205.201**  
C) 192.168.205.202      D) 192.168.207.201
7. What is the last valid host on the subnetwork 192.168.103.128/25  
**A) 192.168.103.254**      B) 192.168.103.130  
C) 192.168.103.150      D) 192.168.103.240
8. Which subnet does host 172.19.235.162/21 belong to?  
**A) 172.19.232.0**      B) 172.19.232.1  
C) 172.19.235.0      D) 172.19.235.1

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9. What subnet mask would you use for the 172.20.0.0 network, such that you can get 1800 subnets and 20 hosts per subnet?  
A) 255.255.255.223                      B) 255.255.255.224  
C) 255.255.254.0                        D) 255.16.1.100
10. How many subnets and hosts per subnet can you get from the network 172.16.0.0/23?  
A) 129 subnets and 510 hosts                  B) 129 subnets and 512 hosts  
C) 128 subnets and 510 hosts                  D) 128 subnets and 512 hosts
11. Which subnet does host 192.168.79.67/29 belong to?  
A) 192.168.79.65                      B) 192.168.79.64  
C) 192.168.79.60                      D) 192.168.79.63
12. What is the broadcast address of the network 192.168.118.64/27?  
A) 192.168.118.92                      B) 192.168.118.93  
C) 192.168.117.92                      D) 192.168.118.95
13. Enter the first valid host on the network that the host 10.94.235.128; 255.255.0.0 is a part of:  
A) 10.94.64.0                  B) 10.94.0.128                  C) 10.94.0.1                  D) 10.94.0.0
14. The \_\_\_\_\_ field in IPv4 packet header is used to identify the order in which to place the packet fragment in the reconstruction.  
A) Header Length                  B) Fragment offset                  C) Fragment identification  
D) Packet Length
15. The addresses that are designed to be used in the hosts that are publicly accessible from the Internet  
A) Public addresses                  B) Static addresses  
C) Private addresses                  D) Dynamic addresses
16. which protocol is used to determine the interface's MAC address, knowing the IP address  
A) ARP                  B) DNS                  C) HTTP                  D) SMTP