1 – Assume that 4 bits have been borrowed. Identify the subnet addresses (choose 3)

     a 192.168.14.8
     b 192.168.14.16
     c 192.168.14.24
     d 192.168.14.32
     e 192.168.14.148
     f 192.168.14.208

2 – Assuming a subnet mask of 255.255.224.0, which of the following would be a valid host address? (choose 3)

     a 124.78.103.0
     b 125.67.32.0
     c 125.78.160.0
     d 126.78.48.0
     e 176.55.96.0
     f 186.211.100.0

3 – Which of the following are private IP addresses? (choose 3)

     a 172.168.33.1
     b 10.35.66.70
     c 192.168.99.5
     d 172.18.88.90
     e 192.169.77.89
     f 127.33.55.16

4 – The router reads each bit to determine the class of an address. Which of the following binary numbers would the router identify as a public class A address? (choose 3)

a 00001010.10101100.11001100.00000111
b 00011111.11110011.11111111.00111011
c 01011101.11100001.11001100.11011011
d 10000000.11111000.11000111.11110011
e 00010111.11011011.11000001.11001100

5 – What is the maximum number of subnets that can be assigned to networks when using the address 172.16.0.0 with a subnet mask of 255.255.240. ?
a 16
b 32

c 30

d 14

e this is an invalid subnet mask for the Network

6 – Which network mask should you place on a class C address to accommodate a user requirement of two sub networks with a maximum of 35 hosts on each network?

       A 255.255.255.192

       B 255.255.255.224

       C 255.255.255.240

       D 255.255.255.248

7 – How many valid host IP addresses are available on the following network/subnetwork? 198.197.196.16/30

a 2

b 30

c 254

d 16,382

e 65,534

8- Given an IP address of 172.16.2.160 and a subnet mask of 255.255.255.192, to which subnet does the host belong?

A 172.16.2.32

B 172.16.2.64

C 172.16.2.96

D 172.16.2.128

E 172.16.2.192

9 – Given the following IP address from the class B address range: 172.35.21.12

Your network plan requires no more than 126 hosts on a subnet that includes this address. When you configure the IP address in Cisco IOS software, which value should you use as the subnet mask?

A 255.255.0.0

B 255.255.128.0

C 255.255.255.128

D 255.255.255.252

10 - You are given an ip adress 132.15.136.2/18 what subnet is the host ip on ?

A 132.15.136.0
B 132.15.128.0
C 132.15.192.0
D 132.15.64.0

11- In order to have 5 subnets and 17 hosts on each subnet, how many bits of subnetting will you use on the class B address 162.13.0.0/16 ?
A 255.255.128.0
B 255.255.224.0
C 255.255.240.0
D 255.255.248.0