

1. (A) 111.56.45.78

Worksheet-3

01101111

00111000

00101101 01

(B) 221.34.7.82

11011101

00100010

00000111

01010010

2. (A) 111.56.045.78

There should be no leading zero.

B) 221.34.7.8.20

we cannot have more than 4 bytes in an IPv4 address.

C) 75.45.301.14

Each byte should be less than or equal to 255.

D) 11100010.24.14.68.

The error is that there is a mixture of binary and dotted decimal notation.

E)

3. (A) 00000001

00001011

00001011

11101111

The first bit is 0. This is class A address.

b) 11000001 10000011 00011011 11111111

The first 2 bits of are 1. the third bit is 0.
This is a class C address

c) 14.23.120.8

The first byte of the address represents 14 which lies between 0 to 126. Hence class A address

d) 252.5.15.111

Class D

e) 191.16.10.110.20

This is class E address

4. A) 10000010 00001100 00010010 10000010
130.12.18.130

B) 11000000 10000010 00011011 11111111
192.130.27.255

5. A's IP address 10 105 1 01110001
X subnet 255 255 255 11100000
O/P network 10 105 1 01100001

B's IP address 10 105 1 01011011
X subnet 255 255 255 11100000
O/P network 10 105 1 01000000