

WORKSHEET-2

1) A) 111.56.45.78

01101111 00111000 0010110101

B) 221.34.7.2

11011101 00100010 00000111 01010010

2) A) 111.56.045.78

These should be no leading zeros.

B) 221.34.7.8.20

We cannot have more than 4 bytes in the IPv4 address.

C) 75.45.301.4

Each byte should be less than or equal to

D) 11100010.24.14.68.

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

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 are 1, the third bit is 0. This is a class B address.

c) 14. 23. 20. 9

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) 1000 0001 0 0001100 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 255 255 111 000000 1 01100000

O/P network 10 105 1 0 1011011

B's IP address 10 105 1 0 1011011

Y subnet 255 255 255 11100000

O/P network 10 105 1 01 0000000