# VILLANUEVA CHINETTE C.

#### 18-020031

#### **IP Address and Subnetting Activities**

#### Binary To Decimal Conversion

1.	00011011	27
2.	10101010	170
2	01101111	111

3. 01101111 111

4. 11111000 248 5. 00100000 32

6. 01010101 85

7. 00111110 62

8. 00000011 3

9. 11101101 237

10. 11000000 192

### **Decimal To Binary Conversion**

1. 123 1111011

2. 50 110010

3. 255 11111111

4. 200 11001000

5. 10 1010

6. 138 10001010

7. 250 11111010

8. 8. 107 1101011

9. 224 11100000

10. 114 1110010

11. 192 11000000

12. 172 10101100

13. 100 1100100

14. 119 1110111

15. 179 10110011

#### **Address Class Identification**

1. 192.14.2.0

2. 148.17.9.1 B

3. 193.42.1.1 C

4. 126.8.156.0 A

5. 220.200.23.1 C

6. 230.230.45.58 D

7. 177.100.18.4 B

8. 119.18.45.0 A

9. 249.240.80.78 E

10. 199.155.77.56 C

- 11. 117.89.56.45 A
- 12. 215.45.45.0
- 13. 199.200.15.0 C

 $\mathbf{C}$ 

Α

- 14. 95.0.21.90
- 15. 33.0.0.0 A

#### **Network Addresses**

## Using the IP address and subnet mask shown write out the network address (show the complete solution):

- 1.  $188.10.18.2 = 188.10.0.0/16\ 255.255.0.0$
- 2. 10.10.48.80 =10.10.48.0/24 255.255.255.0
- 3. 192.149.24.191 =192.149.24.0/24 255.255.255.0
- 4. 150.203.23.19 =150.203.0.0/16 255.255.0.0
- 5. 10.10.10.10 =10.0.0.0/8 255.0.0.0
- 6. 186.13.23.110 =186.13.23.0/24 255.255.255.0
- 7. 223.69.230.250 =223.69.0.0/16 255.255.0.0
- 8. 200.120.135.15 =200.120.135.0/24 255.255.255.0
- 9. 27.125.200.151 =27.0.0.0/8 255.0.0.0
- 10. 199.20.150.35 =199.20.150.0/24 255.255.255.0
- 11. 191.55.165.135 =191.55.165.0/24 255.255.255.0
- 12. 28.212.250.254 =28.212.0.0/16 255.255.0.0

#### Define the CIDR of the following (show the complete solution).

Write the IP address 222.1.1.20 mask 255.255.255.192 in CIDR notation.

222.1.1.0/26 255.255.255.192 Write the IP address 135.1.1.25 mask 255.255. 248.0 in CIDR notation.

135.1.0.0/21 255.255.248.0

What are the network address, broadcast address, and the subnet mask for a host with the IP Address below (show the complete solution)?

1. 76. 205. 82. 172/ 20 76.205.80.0/20 255.255.240.0

2. 108. 155. 30. 119/ 25 108.155.30.0/25 255.255.255.128

3. 223. 81. 59. 130/ 24 223.81.59.0/24 255.255.255.0

4. 13. 180. 70. 211/ 19 13.180.0.0/19 255.255.128.0

5. 132. 185. 250. 217/ 24 132.185.250.0/24 255.255.255.0