Exercises

1. The maximum number of workstations for Class A, Class B, Class C IP network?
2. Convert to dotted decimal notation:
   a. 00001111 11110000 01100111 01111101
   b. 10101111 11000000 11110000 00011101
   c. 11011111 10110000 00011111 01011101
   d. 11101111 11110111 11000111 00011101
3. Which class type are the following IPs?
   a. 208.34.54.12
   b. 238.34.2.1
   c. 114.34.2.8
   d. 129.14.6.8
   e. 241.34.2.8
4. Which class type are the following IPs?
   a. 11110111 11110000 01100111 01111101
   b. 10101111 11000000 11110000 00011101
   c. 11011111 10110000 00011111 01011101
   d. 11101111 11110111 11000111 00011101
5. The maximum subnets of class A ip network with the following subnet masks?
   a. 255.255.192.0
   b. 255.255.0.0
   c. 255.255.224.0
   d. 255.255.255.0
6. The maximum subnets of class B ip network with the following subnet masks?
   a. 255.255.192.0
   b. 255.255.0.0
   c. 255.255.224.0
   d. 255.255.255.0
7. The maximum subnets of a class C ip network with the following subnet masks?
   a. 255.255.255.192
   b. 255.255.255.224
   c. 255.255.255.240
   d. 255.255.255.0
8. Determine the network address of the following IPs?
   a. 125.34.12.56/16
   b. 120.14.22.16/255.255.128.0

    c. 140.11.36.22/255.255.255.0

    d. 142.181.14.16/255.255.224.0

    e. 200.34.22.136/255.255.255.240

9. How many IPs can be assigned within a Class C network?

    a. 255

    b. 256

    c. 254

    d. 253

10. An IP network with subnet mask 255.255.255.240 can allocated address up to ___ PCs

    a. 240

    b. 24

    c. 16

    d. 14

11. An IP network with subnet mask 255.255.255.224 can allocated address up to ___ PCs

    a. 24

    b. 30

    c. 32

    d. 254

12. An IP network with subnet mask 255.255.255.192 can allocated address up to ___ PCs:

    a. 192

    b. 124

    c. 64

    d. 62

13. An IP network with subnet mask 255.255.255.128 can allocated address up to ___ PCs:

    a. 128

    b. 126

    c. 256

    d. None

14. An IP network with subnet mask 255.255.255.248 can allocated address up to ___ PCs:

    a. 8

    b. 6

    c. 248

    d. None

15. An IP network with subnet mask 255.255.255.252 can allocated address up to ___ PCs:

    a. 4

    b. 2

c. 252

d. None

16. An IP network with subnet mask 255.255.255.254 can allocated up to address up to ___PCs

   a. 4

   b. 2

   c. None

   d. 254

17. What is the Broadcast address of 192.168.10.48/28

   a. 192.168.10.255

   b. 192.168.10.240

   c. 192.168.10.62

   d. 192.168.10.63

18. What is the network address of 203.162.39.49/28

   a. 203.162.39.0

   b. 203.162.39.4

   c. 203.162.39.28

   d. 203.162.39.48

19. What is the network address of 203.162.119.52/28

   a. 203.162.119.58

   b. 203.162.119.20

   c. 203.162.119.28

   d. 203.162.119.48

20. What is the network address of 203.162.39.60/28:

   a. 205.182.39.58

   b. 205.182.39.20

   c. 205.182.39.28

   d. 205.182.39.48

21. What is the network address of 192.203.70.123/28:

   a. 192.203.70.28

   b. 192.203.70.112

   c. 192.203.70.128

   d. 192.203.70.0

22. What is the network address of 192.168.10.122/27

   a. 192.168.10.96

   b. 192.168.10.112

    c. 192.168.10.128

    d. 192.168.10.0

23. What is the network address of 192.168.10.122/27:

    a. 192.168.10.96

    b. 192.168.10.112

    c. 192.168.10.128

    d. 192.168.10.0

24. What is the Broadcast address of 192.168.10.64/28:

    a. 192.168.10.255

    b. 192.168.10.240

    c. 192.168.10.79

    d. 192.168.10.80

25. What is the Broadcast address of 203.168.100.80/28:

    a. 203.168.100.95

    b. 203.168.100.240

    c. 203.168.100.79

    d. 203.168.100.80

26. What is the Broadcast address of 213.167.63.96/28:

    a. 213.167.63.95

    b. 213.167.63.111

    c. 213.167.63.79

    d. 213.167.63.28

27. What is the Broadcast address of 213.167.63.112/28

    a. 213.167.63.0

    b. 213.167.63.112

    c. 213.167.63.127

    d. 213.167.63.255

28. A subnet with network address 200.160.29.48/28 can allocate address up to ___ PCs :

    a. 48

    b. 24

    c. 16

    d. 14

29. A subnet with network address 198.168.30.96/27 can allocate address up to ___ PCs :

    a. 96

    b. 32

    c. 30

d. 29 máy
30. A subnet with network address 199.178.52.192/26 can allocate address up to ___ PCs
   a. 192 máy
   b. 26 máy
   c. 64 máy
   d. 62 máy
31. A class C IP network operates with 25-bit subnet mask. Into how many subnets this network can be divided?
   a. 1
   b. 2
   c. 3
   d. 4
32. A class C IP network operates with subnet mask 255.255.255.248. How many IPs that each subnet could be allocated?
   a. 4
   b. 6
   c. 8
   d. 14
33. A class B IP network operates with subnet mask 255.255.255.192. How many IPs that each subnet could be allocated?
   a. 30
   b. 62
   c. 126
   d. 254