

1. How many usable IP addresses can be assigned to hosts on a /26 subnet?

- ☐ 254
- ☐ 126
- ☐ 62
- ☐ 30

2. What is the dot-decimal representation of a /13 subnet mask?

- ☐ 255.240.0.0
- ☐ 255.248.0.0
- ☐ 255.252.0.0
- ☐ 255.254.0.0

3. What is the maximum number of subnets and hosts per subnet for the 192.168.50.247 255.255.255.224 network?

- ☐ 2 subnets, 126 hosts per subnet
- ☐ 4 subnets, 62 hosts per subnet
- ☐ 8 subnets, 30 hosts per subnet
- ☐ 16 subnets, 14 hosts per subnet

4. Which of the following answers lists the decimal notation of the binary number 11100000?

- ☐ 192
- ☐ 224
- ☐ 240
- ☐ 248

5. What is the first usable host IP address on the 172.26.56.110/27 network?

- ☐ 172.26.56.97

- ☐ 172.26.56.111
- ☐ 172.26.56.126
- ☐ 172.26.56.127

6. Which of the following answers lists the binary notation of the decimal number 252?

- ☐ 11110010

- ☐ 11111000
- ☐ 11111010
- ☐ 11111100

7. What is the maximum valid range for IP addresses that can be assigned to hosts on the 192.168.100.248 255.255.255.248 network?

- ☐ 192.168.100.249 - 192.168.100.255

- ☐ 192.168.100.248 - 192.168.100.254
- ☐ 192.168.100.249 - 192.168.100.254
- ☐ 192.168.100.248 - 192.168.100.255

8. What is the last usable host IP address on the 192.168.32.9/30 network?

- ☐ 192.168.32.9

- ☐ 192.168.32.10
- ☐ 192.168.32.11
- ☐ 192.168.32.12

9. What is the binary representation of the 255.255.128.0 subnet mask?

- ☐ 11111111.11111111.10000000.00000000

- ☐ 11111111.11111111.11000000.00000000
- ☐ 11111111.11111111.11100000.00000000
- ☐ 11111111.11111111.11110000.00000000

10. Which of the following answers lists the CIDR notation for 255.255.224.0 subnet mask?

- ☐ /19
- ☐ /20
- ☐ /21
- ☐ /22

11. Which of the following is an example of a valid subnet mask?

- ☐ 255.255.225.0
- ☐ 255.255.191.0
- ☐ 255.255.127.0
- ☐ 255.255.64.0
- ☐ None of the above is a valid subnet mask

12. Which of the following answers lists the CIDR notation of the 255.255.255.224 subnet mask?

- ☐ /25
- ☐ /26
- ☐ /27
- ☐ /28

13. What is the binary representation of the 255.254.0.0 subnet mask?

- ☐ 11111111.11111100.00000000.00000000

- ☐ 11111111.11111110.00000000.00000000
- ☐ 11111111.11111101.00000000.00000000
- ☐ 11111111.11111000.00000000.00000000

14. Which of the following answers lists the CIDR notation of the 255.192.0.0 subnet mask?

☐ /10

☐ /11

☐ /12

☐ /13

15. What is the network address for the 192.168.223.15 255.255.255.252 host?

☐ 192.168.223.10

☐ 192.168.223.11

☐ 192.168.223.12

☐ 192.168.223.13