



TNE10005/TNE60002

Network Administration

Introduction to Subnetting Practice Questions

1. A Computer has the IP address of 172.16.20.11 and a subnet mask of 255.255.255.0.
What is the subnet ID of the subnet this computer belongs to?

A. 172.0.0.0
B. 172.16.0.0
C. 172.16.20.0
D. 172.16.20.11

2. A Computer has the IP address of 172.16.20.11 and a subnet mask of 255.255.255.0.
What is the broadcast address of the subnet this computer belongs to?

A. 255.255.255.255
B. 172.255.255.255
C. 172.16.255.255
D. 172.16.20.255

3. A printer has been configured with the IP address of 192.168.0.25 and the subnet mask of 255.255.255.0.
What is the subnet ID of the subnet this printer has been allocated to?

A. 192.168.0.25
B. 192.168.0.0
C. 192.0.0.0
D. 0.0.0.0

4. A printer has been configured with the IP address of 192.168.0.25 and the subnet mask of 255.255.255.0.

What is the broadcast address of the subnet this printer has been allocated to?

- A. 192.168.0.255
- B. 192.168.255.255
- C. 192.255.255.255
- D. 255.255.255.255
- E. 255.255.255.0

5. A PC cannot communicate with other subnets in the network. It has the IP address 136.186.143.100 and the subnet mask of 255.255.0.0. You suspect that the PC has been configured incorrectly. You know that the subnet ID is 136.186.143.0 and that the broadcast address for the subnet is 136.186.143.255.

What should be the correct subnet mask?

A subnetID = 136.186.0.0
(incorrect configuration)

- A. 255.255.255.128
- B. 255.255.255.0
- C. 255.255.128.0
- D. 255.255.0.0

6. A Computer has the IP address of 10.11.12.13 and a subnet mask of 255.255.0.0.

What is the subnet ID of the subnet this computer belongs to?

- A. 10.11.12.0
- B. 10.11.0.0
- C. 10.0.0.0
- D. 10.11.0.128

7. A Computer has the IP address of 10.11.12.13/16.

What is the broadcast address of the subnet this computer belongs to?

- A. 10.11.12.255
- B. 10.11.12.127
- C. 10.11.255.127
- D. 10.11.255.255

8. A Server cannot communicate with other subnets in the network. It has the IP address 136.186.28.245 and the subnet mask of 255.255.255.0. You suspect that the PC has been configured incorrectly. You know that the subnet ID is 136.186.28.128 and that the broadcast address for the subnet is 136.186.28.255.

What should be the correct subnet mask?

11111111.11111111.11111111.10000000

- A. 255.255.255.128
B. 255.255.255.0
C. 255.255.128.0
D. 255.255.0.0
9. A Computer has the IP address of 10.20.30.40 and a subnet mask of 255.255.255.128.
What is the subnet ID of the subnet this computer belongs to?

- A. 10.20.30.0
B. 10.20.30.128
C. 10.20.0.0
D. 10.20.128.0

10. A Computer has the IP address of 10.20.30.40 and a subnet mask of 255.255.255.128.
What is the broadcast address of the subnet this computer belongs to?

- A. 10.20.30.255
B. 10.20.30.127
C. 10.20.255.255
D. 10.20.255.127

subnetid= 10.20.30.00000000
broadcast address=10.20.30.01111111
= 10.20.30.(64+32
+16+8+4+2+1)=
10.20.30.127 10.20.30.127

11. A printer has been configured with the IP address of 192.168.20.135 and the subnet mask of 255.255.255.128.

What is the subnet ID of the subnet this printer has been allocated to?

- A. 192.168.20.0
B. 192.168.20.128
C. 192.168.0.0
D. 192.168.0.128

192.168.20.10000111

12. A printer has been configured with the IP address of 192.168.20.135 and the subnet mask of 255.255.255.128.

What is the broadcast address of the subnet this printer has been allocated to?

- A. 192.168.20.255
- B. 192.168.255.255
- C. 192.168.255.127
- D. 255.255.255.128

13. A Computer has the IP address of 11.22.33.44/25.

What is the subnet ID of the subnet this computer belongs to?

11.22.33.00101100

- A. 11.22.33.128
- B. 11.22.33.0
- C. 11.22.128.0
- D. 11.22.0.0

14. A Computer has the IP address of 11.22.33.44/25.

What is the broadcast address of the subnet this computer belongs to?

- A. 11.22.255.255
- B. 11.22.255.127
- C. 11.22.33.255
- D. 11.22.33.127

15. A Computer has the IP address of 12.34.56.78/19.

What is the subnet ID of the subnet this computer belongs to?

12.34.00111000.78
----12.34.00100000.00000000

- A. 12.34.56.0
- B. 12.34.56.32
- C. 12.34.32.0
- D. 12.34.0.0

16. A Computer has the IP address of 12.34.56.78 and a subnet mask

What is the broadcast address of the subnet this computer belongs to?

- A. 12.34.56.255
- B. 12.34.56.127
- C. 12.34.63.127
- D. 12.34.63.255

12.34.00111000.78

12.34.(32+16+8+4+2+1).255

255.255.11100000.0