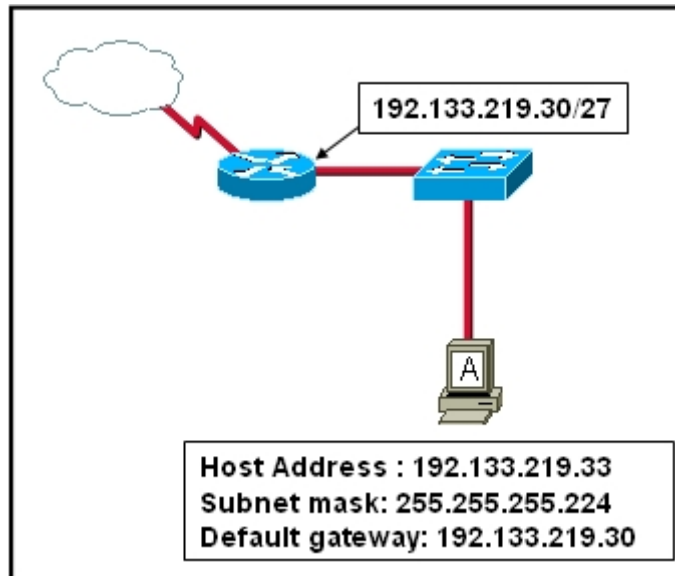


1

**Which statements are true regarding IP addressing? (Choose two.)**

- ☐ NAT translates public addresses to private addresses destined for the Internet.
  - ☐ Only one company is allowed to use a specific private network address space.
  - ☒ Private addresses are blocked from public Internet by router.
  - ☐ Network 172.32.0.0 is part of the private address space.
  - ☒ IP address 127.0.0.1 can be used for a host to direct traffic to itself.
- 

2



**Refer to the exhibit. Host A is connected to the LAN, but it cannot get access to any resources on the Internet. The configuration of the host is shown in the exhibit. What could be the cause of the problem?**

- ☐ The host subnet mask is incorrect.
  - ☐ The default gateway is a network address.
  - ☐ The default gateway is a broadcast address.
  - ☒ The default gateway is on a different subnet from the host.
- 

3

**Given the IP address and subnet mask of 172.16.134.64 255.255.255.224, which of the following would describe this address?**

- ☐ This is a useable host address.
  - ☐ This is a broadcast address.
  - ☒ This is a network address.
  - ☐ This is not a valid address.
- 

4

**Which of the following are features of IPv6? (Choose three.)**

- ☒ larger address space
- ☐ faster routing protocols
- ☒ data types and classes of service
- ☒ authentication and encryption

- ☐ improved host naming conventions
  - ☐ same addressing scheme as IPv4
- 

**5**

***A router interface has been assigned an IP address of 172.16.192.166 with a mask of 255.255.255.248. To which subnet does the IP address belong?***

- ☐ 172.16.0.0
  - ☐ 172.16.192.0
  - ☐ 172.16.192.128
  - ☒ 172.16.192.160
  - ☐ 172.16.192.168
  - ☐ 172.16.192.176
- 

**6**

***Which IPv4 subnetted addresses represent valid host addresses? (Choose three.)***

- ☐ 172.16.4.127 /26
  - ☒ 172.16.4.155 /26
  - ☒ 172.16.4.193 /26
  - ☐ 172.16.4.95 /27
  - ☐ 172.16.4.159 /27
  - ☒ 172.16.4.207 /27
- 

**7**

***What subnet mask would a network administrator assign to a network address of 172.30.1.0 if it were possible to have up to 254 hosts?***

- ☐ 255.255.0.0
  - ☒ 255.255.255.0
  - ☐ 255.255.254.0
  - ☐ 255.255.248.0
- 

**8**

***Which of the following network devices are recommended to be assigned static IP addresses? (Choose three.)***

- ☐ LAN workstations
  - ☒ servers
  - ☒ network printers
  - ☒ routers
  - ☐ remote workstations
  - ☐ laptops
- 

**9**

***Which three IP addresses are private? (Choose three.)***

- ☐ 172.168.33.1
- ☒ 10.35.66.70

- ☐ 192.168.99.5
  - ☐ 172.18.88.90
  - ☐ 192.33.55.89
  - ☐ 172.35.16.5
- 

**10**

**Which process do routers use to determine the subnet network address based upon a given IP address and subnet mask?**

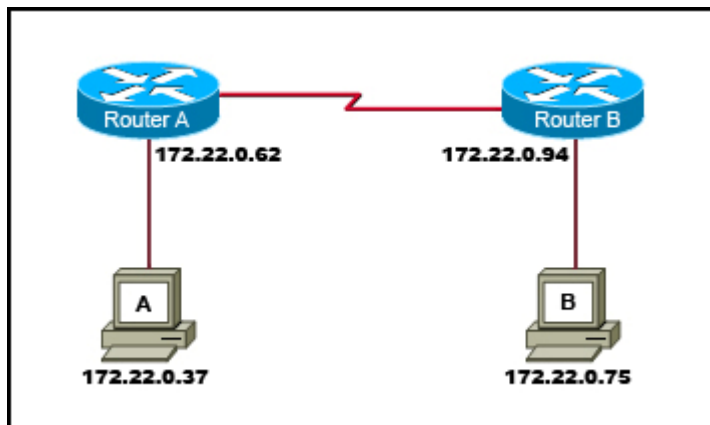
- ☐ binary adding
  - ☐ hexadecimal anding
  - ☐ binary division
  - ☐ binary multiplication
  - ☒ binary ANDing
- 

**11**

**Which of the following is a characteristic of DHCP?**

- ☐ provides an IP address to a device from an individual profile for the host
  - ☒ provides an IP address dynamically to a device from a defined range of IP addresses
  - ☐ provides IP addresses to devices using all unicast transmission to save bandwidth
  - ☐ provides an IP address only to devices with fixed profiles
- 

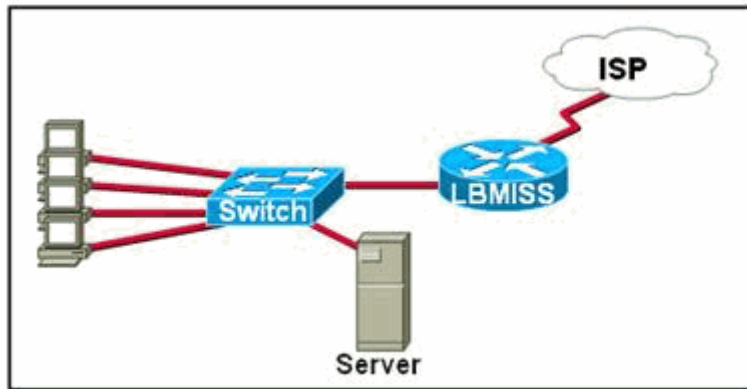
**12**



**Refer to the exhibit. Which network prefix will work with the IP addressing scheme shown in the graphic.**

- ☐ /24
  - ☐ /16
  - ☐ /20
  - ☒ /27
  - ☐ /25
  - ☐ /28
- 

**13**



*Refer to the exhibit. The network administrator has assigned the internetwork of LBMISS an address range of 192.168.10.0. This address range has been subnetted using a /29 mask. In order to accommodate a new building, the technician has decided to use the fifth subnet for configuring the new network (subnet zero is the first subnet). By company policies, the router interface is always assigned the first usable host address and the workgroup server is given the last usable host address. Which configuration should be entered into the workgroup server's properties to allow connectivity to the network?*

- ☐ IP address: 192.168.10.38 subnet mask: 255.255.255.240 default gateway: 192.168.10.39
- ☐ IP address: 192.168.10.38 subnet mask: 255.255.255.240 default gateway: 192.168.10.33
- ☒ IP address: 192.168.10.38 subnet mask: 255.255.255.248 default gateway: 192.168.10.33
- ☐ IP address: 192.168.10.39 subnet mask: 255.255.255.248 default gateway: 192.168.10.31
- ☐ IP address: 192.168.10.254 subnet mask: 255.255.255.0 default gateway: 192.168.10.1