

1. Among the following statements on Subnets and Subnet Masks, which is **incorrect**?

1 / 1 point

- ☐ The Internet is divided into subnets, which are divided into smaller subnets
- ☐ The subnet size can be found from the Subnet Mask
- ☐ Subnet Masks are used in routing to determine which interface a packet needs to be sent to reach its destination
- ☒ IPv4 Subnet Masks are 128 bits

✓ Correct

2. Among the following statements on DNS (Domain Name Server), which is **incorrect**?

1 / 1 point

- ☒ DNS converts IP addresses in to hostnames
- ☐ Preferred DNS server is the main DNS server used on a computer
- ☐ Alternate DNS server is the backup DNS server (to the Preferred DNS server) used on a computer
- ☐ www.google.com and www.facebook.com are hostnames

✓ Correct

3. Among the following statements on DHCP (Dynamic Host Configuration Protocol), which is **incorrect**?

1 / 1 point

- ☐ For DHCP to work, a local DHCP server must exist
- ☒ DHCP is the dedicated Internet router that will send and receive all Internet IP packets for a computer
- ☐ DHCP is used for IPv4 and IPv6 connections
- ☐ The DHCP Server assigns an IP address, subnet mask, IP address of the DNS server, and more

✓ Correct

4. Among the following statements on the effectiveness of DHCP, which is **incorrect**?

1 / 1 point

- ☐ DHCP enables a small number of IP addresses to support many computers
- ☐ Only a computer that needs an Internet connection is assigned an IP address, and after the Internet connection ends, the IP address is returned to the DHCP server
- ☒ DHCP helps to solve the serious shortage problem of IPv6 addresses
- ☐ DHCP is automatic, thus it is used on most smartphones and smart devices

✓ Correct

5. For IP Gateway and subnet configurations, which of the following is **incorrect**?

1 / 1 point

- ☐ Among the IP addresses of a subnet, commonly the Network Destination is assigned the lowest IP address
- ☐ Among the IP addresses of a subnet, commonly the Broadcast IP address is the highest IP address
- ☒ Classful addresses are commonly used to represent the network destination IP address and subnet mask
- ☐ Among the IP addresses of a subnet, commonly the Gateway interface is assigned the second highest IP address

 **Correct**

6. In DHCP operations, which of the following is commonly not managed by the DHCP server?

1 / 1 point

- ☒ Name of the user of the computer
- ☐ Information of the computer (client device)
- ☐ Default Gateway
- ☐ Domain Name
- ☐ Name Server
- ☐ Time Server

 **Correct**

7. Among the following statements on DHCP setup messages and operations, which is **incorrect**?

1 / 1 point

- ☐ A client computer will broadcast a 'Server Discovery' message when searching for a DHCP Server
- ☐ Any DHCP Server on a local network can reply to a 'Server Discovery' message with an 'IP Lease Offer' message sent back to the client computer
- ☐ A client computer will send an 'IP Lease Request' message back to the DHCP Server that sent it an 'IP Lease Offer' message
- ☐ A DHCP Server will send back an 'IP Lease Acknowledgement' message to the client computer that sent it an 'IP Lease Request' message
- ☒ DHCP uses TCP to connect to the DHCP Server

 **Correct**