

98-366^{Q&As}

Networking Fundamentals

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QUESTION 1

What are two characteristics of wired Ethernet network topology? (Choose two.)

- A. It uses network adapters physically encoded with an IP address
- B. It uses tokens to avoid collisions on the network
- C. It is typically employed using twisted pair of fiber optic media
- D. It can negotiate different transmission speeds

Correct Answer: AD

QUESTION 2

What is the default subnet mask for a Class C Internet network?

- A. 255.255.255.252
- B. 255.255.255.240
- C. 255.255.255.192
- D. 255.255.255.0

Correct Answer: D

Class A default subnet mask is 255.0.0.0. Class B default subnet mask is 255.255.0.0. Class C default subnet mask is 255.255.255.0.

QUESTION 3

Which of the following services masks internal IP addresses from outside the network?

- A. DHCP
- B. WINS
- C. NAT
- D. DNS

Correct Answer: C

The majority of NATs map multiple private hosts to one publicly exposed IP address. In a typical configuration, a local network uses one of the designated "private" IP address subnets (RFC 1918). A router on that network has a private address in that address space. The router is also connected to the Internet with a "public" address assigned by an Internet service provider.

QUESTION 4

In which physical network topology is each computer connected to a central point?

- A. Star
- B. Mesh
- C. Ring
- D. Bus

Correct Answer: A

In local area networks with a star topology, each network host is connected to a central hub with a point-to-point connection.

QUESTION 5

The default port used for SMTP is:

- A. 23
- B. 25
- C. 80
- D. 8080

Correct Answer: B

SMTP by default uses TCP port 25.

QUESTION 6

The command-line tool used to list a host's active incoming connections is:

- A. NETSTAT
- B. IPCONFIG
- C. NSLOOKUP
- D. PING

Correct Answer: A

Used without parameters, netstat displays active TCP connections.

Note: Netstat displays active TCP connections, ports on which the computer is listening, Ethernet statistics, the IP routing table, IPv4 statistics (for the IP, ICMP, TCP, and UDP protocols), and IPv6 statistics (for the IPv6, ICMPv6, TCP over IPv6, and UDP over IPv6 protocols).

QUESTION 7

At what layer in the OSI model are hardware addresses referenced?

- A. Network
- B. Application
- C. Data link
- D. Physical

Correct Answer: C

QUESTION 8

A node within a local area network (LAN) must have which two of the following? (Choose two.)

- A. Username and password
- B. Share name
- C. NIC
- D. IP address
- E. Table of all network nodes

Correct Answer: CD

A node must be able to access the LAN through a network interface. A node must also have an IP address.

QUESTION 9

A user reports that she cannot connect to network resources from a computer on the company network. The user was able to connect to the network resources yesterday.

You verify that the user's computer is properly physically connected to the network. You discover that the computer's IP address is 169.254.48.97.

You need to restore access to network resources.

What should you do next?

- A. Flush the cache on the DNS server.
- B. Reset the user's password on the server.
- C. Check your router's current routing tables.
- D. Verify that the DHCP service is available.

Correct Answer: D

169.254.48.97 is an APIPA address. An APIPA address is used when the DHCP server is not available.

QUESTION 10

Match each protocol to its description.

To answer, drag the appropriate protocol from the column on the left to its description on the right. Each protocol may be used once, more than once, or not at all. Each correct match is worth one point.

Select and Place:

Protccols	Answer Area
TCP	connectionless, message-based protocol with best-effort service Protocol
ICMP	connection-oriented protocol with guaranteed service Protocol
ARP	resolves IP addresses to MAC addresses Protocol
UDP	
IGMP	

Correct Answer:

Protocols	Answer Area
	connectionless, message-based protocol with best-effort service
ICMP	connection-oriented protocol with guaranteed service
	...
	resolves IP addresses to MAC addresses
IGMP	

QUESTION 11

What are three characteristics of Ethernet network topology? (Choose three.)

- A. It uses tokens to avoid collisions on the network.
- B. It can use coaxial, twisted pair, and fiber optic media.
- C. It comprises the largest share of the networks in place today.
- D. It is a non-switching protocol.
- E. It can negotiate different transmission speeds.

Correct Answer: BCE

B: Ethernet networks can use coax, twisted-pair, or fibre optic cabling.

C: Ethernet is the most widely used network topology.

E: Speed can be negotiated on Ethernet network.

Incorrect:

not A: Tokens is used in ring topologies. The two possible topologies for Ethernet are bus and star.

Not D: A network topology is not a protocol. Switching can be performed on Ethernet networks.

QUESTION 12

One reason to incorporate VLANs in a network is to:

- A. Increase the number of available IP addresses.
- B. Increase the number of available Media Access Control (MAC) addresses.
- C. Reduce the number of broadcast domains.
- D. Reduce the number of nodes in a broadcast domain.

Correct Answer: D

VLANs provide the following advantages:

*

VLANs enable logical grouping of end-stations that are physically dispersed on a network. ...

*

VLANs reduce the need to have routers deployed on a network to contain broadcast traffic. ...

*

Confinement of broadcast domains on a network significantly reduces traffic.

By confining the broadcast domains, end-stations on a VLAN are prevented from listening to or receiving broadcasts not intended for them. Moreover, if a router is not connected between the VLANs, the end-stations of a VLAN cannot communicate with the end-stations of the other VLANs.

QUESTION 13

Which protocol is responsible for automatically assigning IP addresses?

- A. HTTP
- B. DHCP
- C. DNS
- D. WINS

Correct Answer: A

Dynamic Host Configuration Protocol (DHCP) is a network protocol that enables a server to automatically assign an IP address to a computer from a defined range of numbers (i.e., a scope) configured for a given network.

QUESTION 14

Which of the following uses a tunneling protocol?

- A. Internet
- B. VPN
- C. Extranet
- D. VLAN

Correct Answer: B

Tunneling enables the encapsulation of a packet from one type of protocol within the datagram of a different protocol. For example, VPN uses PPTP to encapsulate IP packets over a public network, such as the Internet.

QUESTION 15

This question requires that you evaluate the underlined text to determine if it is correct.

According to the OSI model, encryption takes place on the "transport layer".

Select the correct answer if the underlined text does not make the statement correct. Select "\\No change is needed" if the underlined text makes the statement correct.

- A. Presentation
- B. Network
- C. Application
- D. No change is needed

Correct Answer: A

SSL or TLS encryption takes place at the presentation layer, Layer 6 of the OSI model.

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